



RUBICON
INDUSTRIAL AUTOMATION

Product Catalogue

Control Panel | Renewable Energy | Cable Solutions | Sensing & Connectivity
Safety Automation | Machine Vision & Identification | Services Division

Corporate Introduction

RUBICON
INDUSTRIAL AUTOMATION

INNOVATIONS FOR EMPOWERING MANUFACTURING

WHO WE ARE:

Rubicon Industrial Automation is a leading importer, specialising in sourcing and delivering cutting-edge automation products to the dynamic South African manufacturing sector. We are committed to empowering machine and line builders with the latest technological advancements, enhancing the efficiency, precision, and competitiveness of their operations.

OUR MISSION:

Our mission is to be the catalyst for progress in the manufacturing domain by providing access to the most innovative automation solutions available globally. We strive to bridge the gap between international technological excellence and the evolving needs of the South African manufacturing ecosystem.

Control Panel

We stock control panels and related equipment, including HMIs, touch panels, enclosures, panel climate control, switchgear, surge protection, indicators, relays, connectors, and labelling tools. We supply top brands like Rittal, Siemens, and Murrelektronik.

Renewable Energy

Rubicon has a strong portfolio of renewable energy components for the panel-building sector. We value reputable European brands that are well-stocked and competitively priced. Our selection includes trusted names such as Telergon, Citel, Stäubli, Bussmann and Murrelektronik.

Cable Solutions

Our range includes industrial control, bus, and high-flex cables, plus cable management solutions like trunking and conduit. We stock Lapp Kabel, Reiku, Pflitsch and Murrelektronik.

Sensing & Connectivity

We supply industrial sensing systems from top brands like Murrelektronik, Balluff, and Sensopart, along with connectivity equipment and field devices, including proximity switches and photoelectric sensors.

Safety Automation

We supply safety automation products, including machine guarding, gate switches, scanners, light curtains, PLCs, relays, and optical sensors, from top brands like Euchner, Pilz, Troax and Murrelektronik.

Machine Vision & Identification

Cognex and Murrelektronik machine vision enhances assembly verification, defect detection, automation, and barcode identification across industries. It is a vital automation tool, capturing crucial production data for quality assessment.

Services Division

Rubicon has a team of service technicians specialising in the servicing of industrial enclosure cooling units, including risk assessments—a systematic process of identifying hazards and evaluating associated risks within the workplace in accordance with the Machinery Directive and relevant regulations using Safexpert.

RUBICON
INDUSTRIAL AUTOMATION

+ Contents



Control Panel | A1–A106pg

Complete solutions for industry: enclosures, controls, circuit protection, automation, power, motors, drives, and aircon services—reliable components to keep your operations running smoothly.



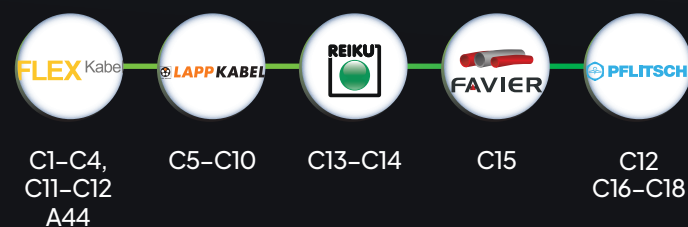
Renewable Energy Components | B1–B16pg

High-quality cables, connectors, fuses, switches, surge protection, and monitoring solutions—everything you need to connect, protect, and manage your electrical systems efficiently.



Cable Solutions | C1–C18pg

Reliable data and power cables, industrial connectors, cable glands, and marking systems—engineered for secure, efficient, and organised electrical installations.





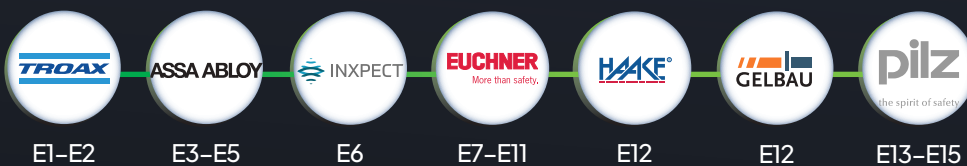
Sensing & Connectivity | D1–D37pg

Advanced I/O systems, connectivity solutions, and switching sensors for precise control, seamless integration, and efficient automation in industrial environments.



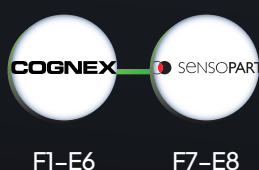
Safety Automation | E1–E15pg

Complete safety systems with connection devices, programmable controllers, presence-sensing equipment, safety switches, relays, and switching sensors—protecting people and machinery in industrial environments.



Machine Vision & Identification | F1–E8pg

Complete vision solutions including RFID, 2D/3D systems, barcode readers, lighting, vision software, and deep learning technologies for accurate identification and automated inspection.





Control Panel

We stock a full suite of control panels and related equipment as part of our industrial technology offering.

Our top-quality products include visual displays like HMIs, touch panels, industrial enclosures, panel heating and cooling, switchgear, and surge protection devices.

We also stock indicators and audible signals; relays; connectors; and marking, printing, and labelling tools.

We supply top quality brands including Rittal, Siemens and Schneider.





RiLineX

THE POWER PLATFORM

A next-generation busbar platform for efficient, safe, and future-ready power distribution in industries including process, renewable energy, and switchgear.

Supports 60mm busbars up to 800A (500 kW); suitable for AC up to 1000V and DC up to 1500V.



RiLineX: Complete Board

Product Code	Max. Current	Poles	Board Length	Short-Circuit Rating	Enclosure (W)	Conductor
9360.064	550A	3	505mm	52,5kA (t=400 ms)	600mm	Cu-ETP 30x5mm – 150mm ²
9360.068	800A	3	505mm	65kA (t=500 ms)	600mm	Cu-ETP 30x10mm – 300mm ²
9360.084	550A	3	705mm	52,5kA (t=400 ms)	800mm	Cu-ETP 30x5mm – 150mm ²
9360.088	800A	3	705mm	65kA (t=500 ms)	800mm	Cu-ETP 30x10mm – 300mm ²
9360.004	550A	3	905mm	52,5kA (t=400 ms)	1000mm	Cu-ETP 30x5mm – 150mm ²
9360.008	800A	3	905mm	65kA (t=500 ms)	1000mm	Cu-ETP 30x10mm – 300mm ²
9360.024	550A	3	1105mm	52,5kA (t=400 ms)	1200mm	Cu-ETP 30x5mm – 150mm ²
9360.028	800A	3	1105mm	65kA (t=500 ms)	1200mm	Cu-ETP 30x10mm – 300mm ²

RiLineX: Complete Board Accessories

Product Code	Max. Current	Poles	Item Type	Short-Circuit Rating	Application	Included Parts
9360.000	800A	3	RiLineX baying set (for long complete board)	52,5kA	Enclosure / enclosure baying	3× baying connectors (15x5mm to 30x10mm, ref. 9365013)

RiLineX: Modular Board

Product Code	Width	Poles	Item Type	Short-Circuit Rating	Included Parts
9360.110	100mm	3	RX basic module	27.5kA–65kA	Holder, base tray, cover
9360.120	200mm	3	RX basic module	27.5kA–65kA	Holder, base tray, cover
9360.150	54mm	3	RX basic module	27.5kA–65kA	Holder, base tray, cover
9360.101	—	3	RX end module set	—	Complete assembly set (left + right board end)
9360.103	—	3	RX baying set (short basic module)	—	No baying connectors (requires 2× 9365003)
9360.104	—	3	RX baying set (long basic module)	—	No baying connectors (requires 2× 9365013)

For product codes 9360.110, 9360.120, and 9360.150, the busbar compatibility is 15/20/30 × 5/10mm².

RiLineX: Modular Board Accessories

Product Code	Max. Current	Poles	Length	Item Type	Application
9365.003	800A	3	45mm	RX baying connector	For Al/Cu busbars
9365.013	800A	3	130mm	RX baying connector	For Al/Cu busbars
9365.020	—	—	—	RX cover strips	Optional slot cover to increase IP protection (IP4X)
9365.000	—	—	—	RX fastening screws	Optional pack, fastening screws supplied with items in accessory bag
9365.001	—	—	—	RX plastic screws	Optional, for fixing the contact hazard protection cover

For product codes 9365.003 and 9365.013, the busbar compatibility is 12/15/20/30 × 5/10mm²



9360.000



9360.110



9360.103



9360.101

9365.003



9365.020



9365.000





RiLineX: Connection Adaptors



Product Code	I _{max}	Max. Conductor Size	Item Type	AWG / Metric Range	Bar Type
9360.200	63A	25mm ²	RX connection adaptor	AWG 16–6 / 1.5–25mm ²	—
9360.210	125A	70mm ²	RX connection adaptor	AWG 10–2/0 / 2.5–70mm ²	—
9360.220	250A	150mm ²	RX connection adaptor	AWG 6 – kcmil 300 / 10–150mm ²	—
9360.230	400A	240mm ²	RX connection adaptor	AWG 3/0 – kcmil 450 / 95–240mm ²	Flexible laminated Cu bar, max. 2×24×10mm
9360.240	800A	300mm ²	RX connection adaptor	AWG 3/0 – kcmil 550 / 95–300mm ²	Flexible laminated Cu bar, max. 2×32×10mm
9360.241	800A	300mm ²	RX connection adaptor (vertical power infeed)	kcmil 250 – kcmil 550 / 150–300mm ²	Flexible laminated Cu bar, max. 32×10mm
9361.300	1600A	1000mm ²	RX connection adaptor	Solid flat copper: 50×10mm ² / Flexible laminated Cu bar: max. 2×50×10mm ²	Flexible laminated Cu bar
9361.315	1000A	2×300mm ²	RX connection adaptor	Round conductors: 2× AWG 3/0 – kcmil 550 / 95–300mm ² (or 2× ring terminal up to 300mm ²)	—



RiLineX: CB Component Adaptors

Product Code	Rated Current	Poles	Width	Item Type	For Use With
9360.500	160A	3	81mm	RX CB component adaptor, Easy-Fix	Front-connecting circuit-breakers
9360.600	160A	3	81mm	RX CB component adaptor, Universal	Front-connecting circuit-breakers
9360.512	250A	3	105mm	RX CB component adaptor, Easy-Fix	Front-connecting circuit-breakers
9360.612	250A	3	105mm	RX CB component adaptor, Universal	Front-connecting circuit-breakers
9360.525	400A	3	140mm	RX CB component adaptor, Easy-Fix	Front-connecting circuit-breakers
9360.625	400A	3	140mm	RX CB component adaptor, Universal	Front-connecting circuit-breakers
9360.535	630A	3	140mm	RX CB component adaptor, Easy-Fix	Front-connecting circuit-breakers
9360.635	630A	3	140mm	RX CB component adaptor, Universal	Front-connecting circuit-breakers

System Connection Switchable between top and bottom



RiLineX: Component Adaptors

Product Code	Width	Pole	Current / Rating	Item Type	Additional Information
9360.705	45mm	-	-	RX Component Support, Without Contact System	On left-hand/right-hand side to create a wider installation space
9360.710	45mm	3	16A	RX Component Adaptor	1x support rail, WxH 35x10mm, conductor length 160mm
9360.720	45mm	3	25A	RX Component Adaptor	1x support rail, WxH 35x10mm, conductor length 160mm
9360.730	45mm	3	32A	RX Component Adaptor	1x support rail, WxH 35x10mm, conductor length 160mm
9360.707	54mm	-	-	RX Component Support, Without Contact System	On left-hand/right-hand side to create a wider installation space
9360.740	54mm	3	45A	RX Component Adaptor	1x support rail, WxH 35x10mm, conductor length 160mm
9360.760	54mm	3	65A	RX Component Adaptor	1x support rail, WxH 35x10mm, conductor length 160mm
9360.780	54mm	3	80A	RX Component Adaptor	1x support rail, WxH 35x10mm, conductor length 160mm
9360.790	72mm	3	100A	RX Component Adaptor	Conductor length 200mm, 1x adaptor plate for Siemens Sirius S3 / ABB MS 49X circuit-breaker
9360.798	72mm	3	80A	RX Component Adaptor	Conductor length 200mm, 1x adaptor plate for Siemens Sirius S3 / ABB MS 49X circuit-breaker

RiLineX: Component Adaptors Accessories



Product Code	Description	Width	Additional Information
9365.724	RX Support Rails for Component Adaptor	45mm	With locking clip, if additional support rails are needed on the component adaptor
9365.725	RX Support Rails for Component Adaptor	54mm	With locking clip, if additional support rails are needed on the component adaptor
9365.741	RX Support Rail for Component Adaptor, Height-Adjustable	45mm	Height adjustable between 12mm and 20mm
9365.744	RX Support Rail for Component Adaptor, Height-Adjustable	54mm	Height adjustable between 12mm and 20mm
9365.742	RX Support Rail for Component Adaptor	45mm	No anti-slip guard at the side
9365.745	RX Support Rail for Component Adaptor	54mm	No anti-slip guard at the side
9365.734	RX Anti-Slip Guard for Support Rail	45mm	Recommended for vertically configured basic systems/boards
9365.735	RX Anti-Slip Guard for Support Rail	54mm	Recommended for vertically configured basic systems/boards
9365.750	RX 60mm Expansion Block for Component Adaptor	45mm	Optional, to make the component adaptor 60mm longer
9365.751	RX 60mm Expansion Block for Component Adaptor	54mm	Optional, to make the component adaptor 60mm longer
9365.747	RX Locking Screw for Support Rail	-	Optional, to secure the support rail on the component adaptor
9365.748	RX Locking Pin for Support Rail	-	Optional, to secure the support rail on the component adaptor
9365.749	RX Locking Wedge	54mm	Optional, to secure motor-starter combinations
9365.700	RX Connection Pin for CB Component Adaptors	-	Optional, for single-pole or 3-pole CB component adaptors

RiLineX: Bus-mounting Fuse Bases

Product Code	Description	Rating	Width	Monitoring Type	Connection	Fuse Type
9360.802	RX bus-mounting fuse base D02-E18	63A	27mm	LED fuse monitoring	Push-in up to 16 (25) mm ²	D01/D02 fuses
9360.805	RX bus-mounting fuse base D02-E18	63A	36mm	Electronic fuse monitoring	Push-in up to 16 (25) mm ²	D01/D02 fuses
9364.022	RX bus-mounting fuse base 10x38 mm	32A	18mm	LED fuse monitoring	Push-in up to 6mm ²	10x38mm cylindrical fuses
9364.024	RX bus-mounting fuse base 10x38 mm	32A	27mm	Electronic fuse monitoring	Push-in up to 6mm ²	10x38mm cylindrical fuses

Bottom Outlet Position

RiLineX: NH fuse-switch Disconnectors – RiLine

Product Code	Description	Size / Rating	Outlet	Monitoring Type
9360.825	RX D-Switch, on-load isolator D02/10x38 mm, Push-in up to 16 (25) mm ² , 1-/3-pole	63A	Bottom	LED
9360.824	RX D-Switch, on-load isolator D02/10x38 mm, Push-in up to 16 (25) mm ² , 1-/3-pole	63A	Bottom	Electronic + switch position
9362.421	RX NH fuse-switch disconnecter, Box terminal 1.5–50 mm ² , 3-pole	000 / 100A	Bottom	–
9362.422	RX NH fuse-switch disconnecter, Box terminal 1.5–50 mm ² , 3-pole	000 / 100A	Top	–
9362.423	RX NH fuse-switch disconnecter, Box terminal 1.5–50 mm ² , 3-pole	000 / 100A	Bottom	Electronic
9362.424	RX NH fuse-switch disconnecter, Box terminal 1.5–50 mm ² , 3-pole	000 / 100A	Top	Electronic
9362.030	RX NH fuse-switch disconnecter, Box terminal 1.5–95 mm ² , 3-pole	00 / 160A	Bottom/Top	–
9362.035	RX NH fuse-switch disconnecter, Box terminal 1.5–95 mm ² , 3-pole	00 / 160A	Bottom/Top	Electronic
9362.000	RX NH fuse-switch disconnecter, Screw terminal M8, 3-pole	00 / 160A	Bottom/Top	–
9362.005	RX NH fuse-switch disconnecter, Screw terminal M8, 3-pole	00 / 160A	Bottom/Top	Electronic
9362.110	RX NH fuse-switch disconnecter, Screw terminal M10, 3-pole	1 / 250A	Bottom/Top	–
9362.140	RX NH fuse-switch disconnecter, Box terminal 50–150 mm ² , 3-pole	1 / 250A	Bottom/Top	–
9362.115	RX NH fuse-switch disconnecter, Screw terminal M10, 3-pole	1 / 250A	Bottom/Top	Electronic
9362.210	RX NH fuse-switch disconnecter, Screw terminal M10, 3-pole	2 / 400A	Bottom/Top	–
9362.250	RX NH fuse-switch disconnecter, Box terminal 120–300 mm ² , 3-pole	2 / 400A	Bottom/Top	–
9362.215	RX NH fuse-switch disconnecter, Screw terminal M10, 3-pole	2 / 400A	Bottom/Top	Electronic
9362.310	RX NH fuse-switch disconnecter, Screw terminal M10, 3-pole	3 / 630A	Bottom/Top	–
9362.350	RX NH fuse-switch disconnecter, Box terminal 120–300 mm ² , 3-pole	3 / 630 A	Bottom/Top	–
9362.315	RX NH fuse-switch disconnecter, Screw terminal M10, 3-pole	3 / 630 A	Bottom/Top	Electronic



RiLineX: Nh Fuse-Switch Disconnectors – Mounting Plate

Product Code	Size / Rating	Pole	Terminal Type	Monitoring Type	Item Type
9363.420	000 / 100A	3	Box terminal	–	Mounting plate attachment, 1.5–50mm²
9363.425	000 / 100A	3	Box terminal	Electronic	Mounting plate attachment, 1.5–50mm²
9363.030	00 / 160A	3	Box terminal	–	Mounting plate attachment, 1.5–95mm²
9363.035	00 / 160A	3	Box terminal	Electronic	Mounting plate attachment, 1.5–95mm²
9363.000	00 / 160A	3	Screw terminal M8	–	Mounting plate attachment
9363.005	00 / 160A	3	Screw terminal M8	Electronic	Mounting plate attachment
9363.110	1 / 250A	3	Screw terminal M10	–	Mounting plate attachment
9363.115	1 / 250A	3	Screw terminal M10	Electronic	Mounting plate attachment
9363.210	2 / 400A	3	Screw terminal M10	–	Mounting plate attachment
9363.215	2 / 400A	3	Screw terminal M10	Electronic	Mounting plate attachment
9363.310	3 / 630A	3	Screw terminal M10	–	Mounting plate attachment
9363.315	3 / 630A	3	Screw terminal M10	Electronic	Mounting plate attachment

RiLineX: NH Fuse-Switch Disconnectors – Accessories

Product Code	Item Type	Additional Information
9365.500	RX Micro-Switch for NH000	To indicate the switch position
9365.501	RX Anti-Slip Guard Clip for NH000 on RiLine60	Only needed if using on RiLine60 busbar system
9365.505	RX Micro-Switch for NH00, NH1, NH2, NH3	To indicate the switch position
9365.510	RX Contact Hazard Protection for Mounting RX NH00 on RiLine60	Only needed if using on RiLine60 busbar system
9365.515	RX Contact Hazard Protection for Mounting RX NH1 on RiLine60	Only needed if using on RiLine60 busbar system
9365.520	RX Connection Space Cover NH00 for Mounting Plate Assembly	Additional connection space extension at top/bottom
9365.530	RX Connection Space Cover NH00 for Busbar Assembly	Additional connection space extension at top/bottom
9365.531	RX Connection Space Cover NH1 for Mounting Plate and Busbar Assembly	Additional connection space extension at top/bottom
9365.532	RX Connection Space Cover NH2 for Mounting Plate and Busbar Assembly	Additional connection space extension at top/bottom
9365.533	RX Connection Space Cover NH3 for Mounting Plate and Busbar Assembly	Additional connection space extension at top/bottom
9365.540	RX Clamp-Type Terminal Set for Connecting Round Conductors to NH00	For converting screw terminal to round conductor, 4 - 70 mm²
9365.541	RX Clamp-Type Terminal Set for Connecting Sector-Shaped Conductors to NH00	For sector-shaped conductors, 4 - 95 mm²
9365.542	RX Box Terminal Set NH1	For screw terminal to box terminal conversion, 35 - 150 mm²
9365.543	RX Box Terminal Set NH2 and NH3	For screw terminal to box terminal conversion, 35 - 240 mm²

RiLineX: General RiLine Accessories



Product Code	Item Type	Additional Information
9365.025	Contact Hazard Protection Profile for RiLine60 Busbar System, 1200mm(W)	Required if using RiLineX top-mounted components on the RiLine60 busbar system
9365.027	Fastening Clip for Contact Hazard Protection Profile	Required if using RiLineX top-mounted components on the RiLine60 busbar system

AX Enclosure

**STRAIGHTFORWARD EARTHING**

The machined keyhole makes it much easier to earth the mounting plate with automatic potential equalisation and this can even be done after the mounting plate has been screwed into place.

**AMPLE SPACE**

The gland plate is up to 33 per cent larger, which provides more space for cable entry.

AX Enclosure (Mild Steel) (Hinged Door) RAL 7035 Wall Mounted, IP66



Product Code	Width x Height x Depth	Doors	Product Code	Width x Height x Depth	Doors
1033.000	300 x 300 x 210mm	1	1076.000	600 x 760 x 210mm	1
1034.000	300 x 400 x 210mm	1	1060.000	600 x 600 x 210mm	1
1380.000	380 x 380 x 210mm	1	1360.000	600 x 600 x 350mm	1
1031.000	380 x 300 x 210mm	1	1260.000	600 x 1200 x 300mm	1
1038.000	380 x 600 x 210mm	1	1055.000	800 x 600 x 250mm	1
1338.000	380 x 600 x 350mm	1	1376.000	600 x 760 x 350mm	1
1037.000	400 x 800 x 300mm	1	1077.000	760 x 760 x 210mm	1
1045.000	400 x 500 x 210mm	1	1073.000	760 x 760 x 300mm	1
1350.000	500 x 500 x 300mm	1	1180.000	800 x 1000 x 300mm	1
1050.000	500 x 500 x 210mm	1	1213.000	1000 x 1200 x 300mm	2
1039.000	600 x 380 x 210mm	1	1214.000	1000 x 1200 x 400mm	2
1339.000	600 x 380 x 350mm	1	1110.000	1000 x 1000 x 300mm	1
1057.000	500 x 700 x 250mm	1	1280.000	800 x 1200 x 300mm	1
1058.000	600 x 800 x 250mm	1	1115.000	1000 x 1400 x 400mm	2
1059.000	600 x 800 x 400mm	1	1116.000	1200 x 1200 x 400mm	2

Image displayed as dimension visibility and not product code. | Comes complete with mounting plate.

AX Enclosure (Stainless Steel 304) (Hinged Door) Wall Mounted, IP66



Product Code (304 S/S)	Width	Height	Depth	Door
1003.000	300mm	300mm	210mm	1
1006.000	380mm	380mm	210mm	1
1008.000	380mm	600mm	210mm	1
1007.000	500mm	500mm	210mm	1
1009.000	600mm	380mm	210mm	1
1010.000	600mm	600mm	210mm	1
1014.000	760mm	760mm	300mm	1
1016.000	800mm	1000mm	300mm	1
1019.000	1000mm d/door	1200mm	300mm	2

Brushed stainless finish | 316 on request | Image displayed as dimension visibility and not product code. | Comes complete with mounting plate.

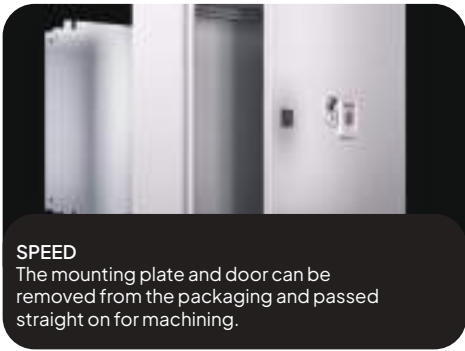
AX Enclosure Accessories



Product Code	2508.020	2583.010	1199.100	2519.010	2449.010	2537.300	2467.000
Description	MILD STEEL Wall Mounting Bracket for AX (4 pieces)	STAINLESS STEEL Wall Mounting Bracket for AX (4 pieces)	Baying Kit for AX	Door Stay	180° Hinges	Mini-comfort handle. Insert ordered separately	3524E Lock insert for mini-comfort handle

Insert ordered separately.

E-Box KX Enclosure



SPEED
The mounting plate and door can be removed from the packaging and passed straight on for machining.



AMPLE SPACE
The 180° door hinges create more space and improve access to the enclosure interior.

E-Box KX Terminal Enclosure (Hinged Door) RAL7035 (Mild Steel), IP66

	Product Code	Width	Height	Depth	Doors
	1545.000	150mm	300mm	80mm	1
	1546.000	200mm	200mm	80mm	1
	1547.000	200mm	400mm	80mm	1
	1548.000	150mm	300mm	120mm	1
	1549.000	200mm	200mm	120mm	1
	1550.000	200mm	400mm	120mm	1
	1551.000	150mm	150mm	80mm	1
	1552.000	200mm	300mm	80mm	1
	1553.000	150mm	150mm	120mm	1
	1554.000	200mm	300mm	120mm	1
	1556.000	300mm	400mm	120mm	1
	1557.000	200mm	500mm	120mm	1
	1577.000	300mm	400mm	155mm	1
	1578.000	300mm	600mm	155mm	1
	1579.000	300mm	800mm	155mm	1
Mounting Plate is included.					

KX Enclosure



PEACE OF MIND
The cam lock with double-bit insert can be installed without using tools, locks the enclosure securely and can be incorporated into custom locking systems.



EASY ASSEMBLY
The rear panel's standard eyelet allows quick wall mounting with a self-tapping screw, eliminating the need for a lock nut. The high protection category remains unaffected.

Bus Enclosure KX Sheet Steel (Hinged Door) RAL7035 (Mild Steel), IP66

	Product Code	Width	Height	Depth	Doors
	1610.000	400mm	200mm	155mm	1
	1611.000	400mm	300mm	155mm	1
	1612.000	600mm	300mm	155mm	1
	1613.000	800mm	300mm	155mm	1
Enclosure includes window in front door. Mounting plate included.					

KX Terminal Enclosure (Screw Down Lid) RAL7035 (Mild Steel), IP66



	Product Code	Width x Height x Depth	Doors	Product Code	Width x Height x Depth	Doors
	1500.000	150 x 150 x 120mm	1	1511.000	400 x 400 x 120mm	1
	1501.000	300 x 150 x 120mm	1	1512.000	600 x 400 x 120mm	1
	1502.000	200 x 200 x 120mm	1	1513.000	800 x 400 x 120mm	1
	1503.000	300 x 200 x 120mm	1	1514.000	150 x 150 x 80mm	1
	1504.000	400 x 200 x 120mm	1	1515.000	300 x 150 x 80mm	1
	1505.000	500 x 200 x 120mm	1	1516.000	200 x 200 x 80mm	1
	1506.000	600 x 200 x 120mm	1	1517.000	300 x 200 x 80mm	1
	1507.000	300 x 300 x 120mm	1	1518.000	400 x 200 x 80mm	1
	1508.000	400 x 300 x 120mm	1	1527.000	800 x 200 x 120mm	1
	1509.000	500 x 300 x 120mm	1	1528.000	200 x 150 x 80mm	1
	1510.000	600 x 300 x 120mm	1	1529.000	200 x 150 x 120mm	1
	Mounting Plate NOT included. Image displayed as dimension visablity and not product code. Without gland plate.					

Mounting Plates - KX (Galvanised Steel)

	Product Code	Width	Height	Product Code	Width	Height
	1560.800	150mm	150mm	1567.800	300mm	300mm
	1561.800	300mm	150mm	1568.800	400mm	300mm
	1562.800	200mm	200mm	1569.800	500mm	300mm
	1563.800	300mm	200mm	1570.800	600mm	300mm
	1564.800	400mm	200mm	1571.800	400mm	400mm
	1565.800	500mm	200mm	1572.800	600mm	400mm
	1566.800	600mm	200mm	1573.800	800mm	400mm
	1575.800	200mm	150mm	1574.800	800mm	200mm

Wall Mounting Bracket For E-Box and KX Sheet Steel



Product Code	Material	Wall Distance
1590.010	Sheet steel, zinc-plated	10mm
Set of 4.		

KX Enclosure Stainless Steel (304) Screw Lid Terminal Boxes, IP66



Product Code	Product Code	Packs of	Width	Height	Depth
For the box	Mounting Plates				
1564.000	1560.800	1	150mm	150mm	120mm
1565.000	1562.800	1	200mm	200mm	120mm
1566.000	1563.800	1	300mm	200mm	120mm
1568.000	1564.800	1	400mm	200mm	120mm
1567.000	1567.800	1	300mm	300mm	120mm
1569.000	1568.800	1	400mm	300mm	120mm
Mounting plate ordered separately. Brushed Stainless finish. Image displayed as dimension visibility and not product code.					



TIME SAVINGS:
Precise hole counting offers an easy point of orientation at all levels of the enclosure frame when fixing rails and punched sections in place.



SYSTEM BENEFITS:
More assembly-friendly and efficient engineering thanks to a frame profile with a 25mm pitch pattern that is symmetrical across all levels and can be accessed from all sides.



SIMPLIFICATION:
Thanks to the new hinge, doors can be installed and removed incredibly easily and without needing any tools, thus eliminating the need to separately lock and unlock hinge bolts.



VX25 Enclosure (Mild Steel) (Bayable) Floor Standing, IP55, RAL7035



8685.000

Product Code	W x H x D	Sidewalls	100mm Plinths	200mm Plinths	Doors
8685.000	600 x 1800 x 500mm	8185.245	8660.002 + 8660.032	8660.022 + 8660.042	1
8885.000	800 x 1800 x 500mm	8185.245	8660.003 + 8660.032	8660.023 + 8660.042	1
8285.000	1200 x 1800 x 500mm	8185.245	8660.007 + 8660.032	8660.025 + 8660.042	2
8686.000	600 x 1800 x 600mm	8186.245	8660.002 + 8660.033	8660.022 + 8660.043	1
8886.000	800 x 1800 x 600mm	8186.245	8660.003 + 8660.033	8660.023 + 8660.043	1
8286.000	1200 x 1800 x 600mm	8186.245	8660.007 + 8660.033	8660.025 + 8660.043	2
8605.000	600 x 2000 x 500mm	8105.245	8660.002 + 8660.032	8660.022 + 8660.042	1
8805.000	800 x 2000 x 500mm	8105.245	8660.003 + 8660.032	8660.023 + 8660.042	1
8005.000	1000 x 2000 x 500mm	8105.245	8660.005 + 8660.032	8660.024 + 8660.042	2
8205.000	1200 x 2000 x 500mm	8105.245	8660.007 + 8660.032	8660.025 + 8660.042	2
8606.000	600 x 2000 x 600mm	8106.245	8660.002 + 8660.033	8660.024 + 8660.043	1
8806.000	800 x 2000 x 600mm	8106.245	8660.003 + 8660.033	8660.023 + 8660.043	1
8006.000	1000 x 2000 x 600mm	8106.245	8660.005 + 8660.033	8660.024 + 8660.043	2
8206.000	1200 x 2000 x 600mm	8106.245	8660.007 + 8660.033	8660.025 + 8660.043	2
8626.000	600 x 2200 x 600mm	8126.245	8660.007 + 8660.033	8660.025 + 8660.043	1
8826.000	800 x 2200 x 600mm	8126.245	8660.003 + 8660.033	8660.023 + 8660.043	1
8226.000	1200 x 2200 x 600mm	8126.245	8660.007 + 8660.033	8660.025 + 8660.043	2
8608.000	600 x 2000 x 800mm	8108.245	8660.002 + 8660.034	8660.022 + 8660.044	1
8808.000	800 x 2000 x 800mm	8108.245	8660.003 + 8660.034	8660.023 + 8660.044	1
8208.000	1200 x 2000 x 800mm	8108.245	8660.007 + 8660.034	8660.025 + 8660.044	2

Mounting plate ordered separately, side panels and plinths ordered separately.

VX25 Enclosure (Stainless Steel(304)) (Bayable) Floor Standing, IP55



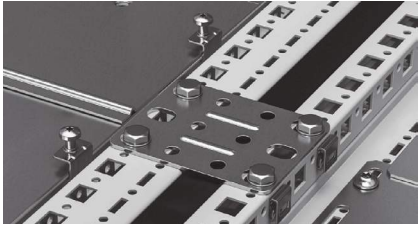
Product Code	Size W x H x D	Product Code (Side wall)	Product Code (100mm Plinths)	Doors
8457.000	600 x 1800 x 500mm	8700.840	8660.050 + 8660.071	1
8455.000	800 x 1800 x 500mm	8700.840	8660.051 + 8660.071	1
8453.000	1200 x 1800 x 500mm	8700.840	8660.053 + 8660.071	2
8452.000	600 x 2000 x 600mm	8700.050	8660.050 + 8660.072	1
8450.000	800 x 2000 x 600mm	8700.050	8660.051 + 8660.072	1
8451.000	1200 x 2000 x 600mm	8700.050	8660.053 + 8660.072	2

Brushed stainless finish. | Mounting plate ordered separately, side panels and plinths ordered separately.



Accessories - Baying Kits | VX25

Product Code	Size	Packs of
8617.501	Vertical Baying Bracket	4
8617.500	Horizontal Baying Bracket	4
Order both products for 1 bay.		



Baying Kit, New Enclosure VX25 added onto Old Enclosure TS 8

Product Code	Description	Supply Includes	Packs Of
8617.505	For extending existing TS 8 bayed enclosure suites with VX25 enclosures.	6 Baying connector: Sheet steel, 1 seal, Assembly parts	4



New Enclosure VX25 Accessories - Wiring Plan Pockets

Product Code	Door Suitable Width	Width	Height
4114.000	400mm (Steel)	255mm	210mm
4116.000	600mm (Steel)	455mm	210mm
4118.000	800mm (Steel)	655mm	210mm
4124.000	1000mm (Steel)	855mm	210mm
2513.000	438mm (A3 Landscape, Plastic)	286mm	45mm
2514.000	228mm (A2 Portrait, Plastic)	254mm	17mm
2515.000	228mm (A5 Landscape, Plastic)	174mm	17mm



Enclosure VX25 Accessories - Utility Lecterns (For Laptop / Notebook)

Product Code	Door Suitable Width	Width	Height
4638.600	600mm	413mm	400mm
4638.800	800mm	643mm	400mm



Enclosure VX25 Accessories Dividers / Partitions

Product Code	Description	Panel Height	Depth
8609.201	Divider Plate / Partition	1800mm	500mm
8609.202	Divider Plate / Partition	1800mm	600mm
8609.204	Divider Plate / Partition	2000mm	500mm
8609.205	Divider Plate / Partition	2000mm	600mm
8609.206	Divider Plate / Partition	2000mm	800mm
8609.207	Divider Plate / Partition	2200mm	600mm



Enclosure VX25 Accessories Filler Plates

Product Code	Description	Panel Height	Depth
4590.700	Filler Plate	1800mm	-
4591.700	Filler Plate	2000mm	-
4592.700	Filler Plate	2200mm	-

Floor Standing PC Cabinet (Mild Steel), IP55



Product Code	Description	Width x Height x Depth	Product Code 100mm Plinths	Product Code 200mm Plinths
5366.050	PC cabinet with glazed door at the top, keyboard drawer and component shelf	600 x 1600 x 636mm	8660.002 + 8660.033	8660.022 + 8660.043
5368.050	PC cabinet with glazed door at the top, keyboard drawer and component shelf	600 x 1600 x 836mm	8660.002 + 8660.034	8660.022 + 8660.044

Blue e+ Fan and Filter Units (Fans & Air Conditioners)

Blue e+ Filter Fans (Only)

Rittal's new Blue e+ Filter Fans offer energy-efficient cooling with optimised airflow and reduced power consumption. Designed for quick, tool-free installation, they feature advanced diagonal fan technology and high protection ratings, making them ideal for modern industrial enclosures.

Product Code	Size	Cut Out Size	Air Vol / Hour		Voltage
			Free Airflow	Outlet Filter	
3237.724	116.5 x 116.5mm	92 x 92mm	20m³ / h	15m³ / h	24V DC (Fan)
3238.724	148.5 x 148.5mm	124 x 124mm	53m³ / h	63m³ / h	24V DC (Fan)
3239.724	204 x 204mm	177 x 177mm	100m³ / h	120m³ / h	24V DC (Fan)
3240.724	255 x 255mm	224 x 224mm	180m³ / h	110m³ / h	24V DC (Fan)
3241.724	255 x 255mm	224 x 224mm	225m³ / h	173m³ / h	24V DC (Fan)
3237.700	116.5 x 116.5mm	92 x 92mm	20m³ / h	15m³ / h	230V AC (Fan)
3238.700	148.5 x 148.5mm	124 x 124mm	53m³ / h	63m³ / h	230V AC (Fan)
3239.700	204 x 204mm	177 x 177mm	100m³ / h	110m³ / h	230V AC (Fan)
3240.700	255 x 255mm	224 x 224mm	175m³ / h	218m³ / h	230V AC (Fan)
3241.700	255x255mm	224 x 224mm	225m³ / h	242m³ / h	230V AC (Fan)
3243.700	323 x 323mm	292 x 292mm	540m³ / h	444m³ / h	230V AC (Fan)
3244.700	323 x 323mm	292 x 292mm	700m³ / h	867m³ / h	230V AC (Fan)
110V AC available on request.					

Blue e+ Outlet Filter (Only)

The outlet filter works with a fan-and-filter unit to ventilate enclosures, dissipate heat, and protect temperature-sensitive components by allowing cooler ambient air to enter.

Product Code	Size	Cut Out Size	IP Protection Rating		Colour
			With Chopped-fibre Filter	With Hood	
3237.300	116.5 x 116.5mm	92 x 92mm	IP54	IP56	RAL 7035
3238.300	148.5 x 148.5mm	124 x 124mm	IP54	IP56	RAL 7035
3239.300	204 x 204mm	177 x 177mm	IP54	IP56	RAL 7035
3240.300	255 x 255mm	224 x 224mm	IP54	IP56	RAL 7035
3243.300	323 x 323mm	292 x 292mm	IP54	IP56	RAL 7035

Filter Mats (Only)

Made of chopped-fibre mat with a progressive structure. Temperature-resistant to 100 °C, self-extinguishing category F1 to DIN 53 438. Dust-laden air side: Open structure. Clean-air side: Closed structure. Reliable filtering of virtually all types of dust from a particle size of 10 µm.

Product Code	For Fan Series	Qty.
3321.700	3237.xxx	5
3322.700	3238.xxx	5
3171.100	3239.xxx	5
3172.100	3240 / 3241.xxx	5
3173.100	3243 / 3244.xxx	5



Blue e+ Air Conditioners



ACTIVE CLIMATE CONTROL
Speed-controlled compressor circuit for consistent, demand-based cooling.



SAVE UP TO 75% OF ENERGY
Passive climate control: Heat pipe cooling circuit uses cooler ambient air.



DATA MANAGEMENT
Local device management with quick diagnostics and app-based parameterisation.

Air Conditioners Units Top Mount



*3185.730

Product Code	Description
*3185.730	1.3kW, Blue e+ Top Mount, (230V, 380V)
*3385.540	2kW, Top Mount, (400V)
3387.540	4kW, Top Mount, (400V)
3383.500	1kW, Blue e+ Top Mount, (230V)
3385.500	2kW, Blue e+ Top Mount, (230V)
*Multi voltage.	

Nationwide
Rubicon Service Division
providing dedicated
maintenance and repairs
for Rittal cooling units
across South Africa.

Air Conditioners Units Side Or Door Mount



Product Code	Description	Rated Operating Voltage	Width	Height	Depth
3178.800	0.3kW, SK Blue e+, Wall Mount	110V - 240V, 1~, 50Hz / 60Hz 380V - 480V, 3~, 50Hz / 60Hz	300mm	570mm	159mm
3179.800	0.5kW, SK Blue e+, Wall Mount	110-240 V, 1~, 50-60 Hz	300mm	570mm	199mm
3180.800	0.75kW, SK Blue e+, Wall Mount	110-240 V, 1~, 50-60 Hz	300mm	570mm	250mm
3184.800	1kW, SK Blue e+, Wall Mount	110-240 V, 1~, 50-60 Hz	400mm	950mm	196mm
3185.830	1.6kW, SK Blue e+, Wall Mount	110V - 240V, 1~, 50Hz / 60Hz 380V - 480V, 3~, 50Hz / 60Hz	400mm	950mm	310mm
3186.930	2kW, SK Blue e+, Wall Mount	110V - 240V, 1~, 50Hz / 60Hz 380V - 480V, 3~, 50Hz / 60Hz	450mm	1,600mm	294mm
3187.930	2.6kW, SK Blue e+, Wall Mount	10V - 240V, 1~, 50Hz / 60Hz 380V - 480V, 3~, 50Hz / 60Hz	450mm	1,600mm	294mm

LED System Lights



Product Code	Voltage	Length	Lu-men	With Socket	Connection Cable	Feed Through Cable	Door Operated Switch Code	Infeed Cable Code	Universal Bracket Code	Mounting Kit Magnetic
2500.100	230V AC	262mm	400	No	2500.420	2500.450	2500.460	2500.420	2373.000	2500.490
2500.110	230V AC	337mm	600	No	2500.420	2500.450	2500.460	2500.420	2373.000	2500.490
2500.220	24V DC	437mm	900	No	2500.420	2500.450	2500.460	2500.410	2373.000	2500.490
2500.200	230V AC	437mm	900	No	2500.420	2500.450	2500.460	2500.400	2373.000	2500.490
2500.210	230V AC	437mm	900	Yes	2500.420	2500.450	2500.460	2500.400	2373.000	2500.490
2500.300	230V AC	437mm	1200	No	2500.420	2500.450	-	2500.400	2373.000	2500.490
2500.310	230V AC	437mm	1200	Yes	2500.420	2500.450	-	2500.400	2373.000	2500.490

Connection cable is required.

System Lights Accessories



Product Code	Description
2500.490	Magnetic mounting kit
2500.460	Door operated switch (600mm cable)

LED Compact System Light



Product Code	Description	L x H x D
4140.830	30 LED's, 24V DC	430 x 32.8 x 20.64mm
4140.840	40 LED's, 24V DC	530 x 32.8 x 20.64mm

Connection cable separately ordered. Mounting either directly screwed or separate magnetic mounting kit is required.

LED Compact System Light Accessories



Product Code	Description
4140.000	Magnetic mounting kit
4315.840	1 meter interconnecting cable
4315.850	3 meter interconnecting cable
4315.820	Door operated switch (1000mm cable)
4315.810	Door operated switch (3000mm cable)
4315.800	Connection cable (3000mm cable) open ended.

Cover Section (for flat busbars)



Product Code	Dimensions	Width (B)	Packs Of
3092.000	(12 x 5 - 30 x 10mm)	40.6mm	10(1m)
3085.000	(40 - 60 x 10mm)	70.6mm	10(1m)

Contact hazard protection via full encapsulation of the busbars. May be cut to required length.

Cable Management Conduit



Cable Conduit Only

Product Code SZ	Internal Diameter	Qty Length
2595.000	16mm	25m
2589.000	29mm	25m
2596.000	36mm	25m
2590.000	48mm	25m



Cable Conduit Holder Only

Product Code	Internal Diameter	Qty Length
2591.000	29mm	20 pieces
2594.000	36mm	20 pieces
2592.000	48mm	20 pieces

Comfort Handle For Lock Inserts (For VX25 Floorstanding Enclosures)



Product Code	Design	Insert Product Code
8618.200	RAL 7035 for Lock inserts	8611.200
8618.250	RAL 7035 for Lock inserts	2467.000

PrepaRed for the installation of lock inserts, version F, and lock and push-button inserts. Length: 295mm. Order 3524E Key + insert separately.

Cam Locks (For AX Enclosures) Mini-Comfort Handle



Product Code	Description	Housing Material
2537.100	For Semi-cylinder - Mini-comfort Handle For AX all Mount Enclosure (Insert ordered Separately - 2467.000)	Die-cast zinc, nickel-plated
2577.010	With Cylinder insert, lock no. E1 (Insert included)	Fibre-glass reinforced polyamide, also as a replacement for Compact Enclosures AX
2537.300	With Cylinder insert and padlocks (Insert ordered Separately - 2467.000)	Fibre-glass reinforced polyamide, also as a replacement for Compact Enclosures AX

Lock And Push-Button Inserts (For Comfort Handles)



Product Code	Design	Keys
8611.180	Security lock insert no. 3524E	2 Keys
8611.190	Push-button insert	-
8611.200	Lock and push-button insert, lock no. 12321 no other lock is possible	2 Keys
2467.000	Semi-cylinder, 3524E insert	-
2532.000	3524E keys only packs of 2	2 Keys

2 keys for installation in the comfort handles for lock inserts.

IPFLEX RTP Series



System Parameters

CPU	Onboard Intel® Bay trail J1900 quad-core processor, 2GHz
Chipset	Intel Bay trail SOC
Memory	Supports DDR3 2GB/4GB/8GB memory
Disk	Supports SATA 2.5"SSD HDD and mSATA
Display	Integrated VGA & HDMI
LAN	2 RTL8111F 10 / 100 / 1000Mbps RJ45 port
Speaker	Built-in small speaker
USB	3 USB2.0 and 1 USB3.0, with electrostatic protection 8KV
COM	6 RS232 serial ports (COM1, COM5 and COM6 optional RS485)
OS	Windows 7 / Windows 8 / Windows 10 (Preloaded) / WES7 / Linux / Android
Operating Temp.	-20—+60°C
Storage Temp.	-30—+80°C
Operating Humidity	10—95% (Non-condensing)
Input voltage	9—30V DC

Product Code

Description

IPF-RTP6-8.0-256-8-A-10	8" Resistive touch screen, 800 x 600, Intel® Bay trail J1900 CPU 2.0GHz, 8GB ram, 256GB SSD, 2x LAN, 4xRS232, 9—30V DC
IPF-RTP6-10.4-256-8-A-10	10.4" Resistive touch screen, 800 x 600, Intel® Bay trail J1900 CPU 2.0GHz, 8GB ram, 256GB SSD, 2x LAN, 4x RS232, 9—30V DC

IPFLEX CTP Series



System Parameters

CPU	Intel® Core™i5-7200U
Base Frequency	Dual Core 2.5 GHz
L3 Cache	3MB
Chipset	Integrated PCH-LP
Memory	1x 204 - pin DDR3L - 1333MHz SODIMM, support up to 8GB
Storage Medium	1x 2.5" SATA bay + 1x mSATA
LAN	2x Intel i210 1000Mbps RJ-45 with surge protection, lightning protection design and 15KV ESD protection
Audio	Realtek ACL662 Audio controller
USB	4x USB3.0 / 2.0 / 1.1
COM	2x RS - 232 / RS - 485 with surge protection, RS485 support automatic flow control
Expansion Slot	1x Mini-PCIe slot, extensible 3G, WIFI wireless card. 1x Easy BUS slot
Rear I/O	DVI-I / 2 x GLAN / 4x USB / 2x COM / 2x PS2 / Line-out / Mic-in
OS	Windows 7 / Windows 7 Embedded / Windows 8 / Windows10 (Preloaded) / Ubuntu / VXWORKS / QNX
Input Voltage	12 - 24V DC ±10%, reverse polarity protection, overvoltage protection, overcurrent protection
Backlight	LED
MTBF	30000hrs
Luminance	250CD / m²
Contrast Ratio	1000:1
Viewing Angle	(L) 85 / (R) 85 / (T) 80 / (B) 80
Touchscreen Type	Multi-point capacitive touch screen
Multi-touch	10 points (windows system)
Surface Hardness	Mohs' Number 7
Work Temperature	0–45°C
Storage Temperature	-20–60°C
Relative Humidity	5–95% (Non condensation)
Ingress Protection	Front panel IP65

Product Code	Description
IPF-CTP6-12.1-256-8-A-10	12.1" Capacitive touch screen, 1024 x 768, i5-7200U CPU 2.5GHz, 8GB ram, 256GB SSD, 2x LAN, 2x RS232/485, 12–24V DC
IPF-CTP6-12.1-256-8-B-10	CTP Touch panel, 12.1", 8GB RAM, 256GB SSD, Win 10
IPF-CTP6-15.0-256-8-A-10	15" Capacitive touch screen, 1024 x 768, i5-7200U CPU 2.5GHz, 8GB ram, 256GB SSD, 2x LAN, 2x RS232/485, 12–24V DC
IPF-CTP6-15.0-256-8-B-10	IPFlex CTP Touch panel, 15.0", 8GB RAM, 256GB SSD, Win 10
IPF-CTP6-17.0-256-8-A-10	17" Capacitive touch screen, 1280 x 1024, i5-7200U CPU 2.5GHz, 8GB ram, 256GB SSD, 2x LAN, 2x RS232/485, 12–24V DC
IPF-CTP6-17.0-256-8-B-10	IPFlex CTP Touch panel, 17.0", 8GB RAM, 256GB SSD, Win 10
IPF-CTP6-18.5-256-8-A-10	18.5" Capacitive touch screen, 1366 x 768, i5-7200U CPU 2.5GHz, 8GB ram, 256GB SSD, 2x LAN, 2x RS232/485, 12–24V DC
IPF-CTP6-21.5-256-8-A-10	21.5" Capacitive touch screen, 1920 x 1080, i5-7200U CPU 2.5GHz, 8GB ram, 256GB SSD, 2x LAN, 2x RS232/485, 12–24V DC
IPF-CTP6-21.5-256-8-B-10	IPFlex CTP Touch Panel, 21.5", 8GB RAM, 256GB SSD, Win 10

Single Door Steel Wall Mount Enclosures



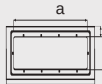
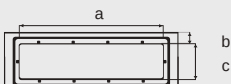
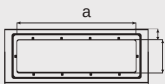
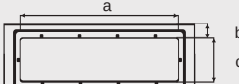
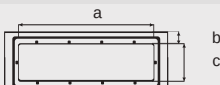
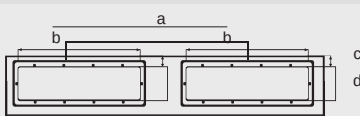
- Supply Includes:
- Enclosure and door, mounting plate, lock system, gland plate, sealing gasket and fixing accessories, and includes a reversible door and hinge.
- Standard Configuration:
- Paint finish epoxy polyester powder coating textured finish
- Colour Options:
- Orange (B52)
- Protection degree:
- IP66
- Against mechanical impacts:
- IK10
- Thickness:
-
- Enclosure & door:
- Sheet steel 1.2mm till size ST6 820 then 1.5mm
- Mounting plate:
- Zinc-coated steel 1.5mm till size ST6820 then 2.0mm

Technical Information

Product Code	Description	W x H x D	Number of Locks	Gland Open*
FB22515-O	Wall mount enclosure, Orange	200 x 250 x 150mm	1	O
FB25321-O	Wall mount enclosure, Orange	250 x 300 x 200mm	1	A
FB3420-O	Wall mount enclosure, Orange	300 x 400 x 200mm	1	B
FB4520-O	Wall mount enclosure, Orange	400 x 500 x 200mm	1	C
FB4625-O	Wall mount enclosure, Orange	400 x 600 x 250mm	2	C
FB5725-O	Wall mount enclosure, Orange	500 x 700 x 250mm	2	D
FB6830-O	Wall mount enclosure, Orange	600 x 800 x 300mm	2	D
FB81030-O	Wall mount enclosure, Orange	800 x 1000 x 300mm	3	E
FB81230-O	Wall mount enclosure, Orange	800 x 1200 x 300mm	3	E
FB81430-O**	Wall mount enclosure, Orange	800 x 1400 x 300mm	3	E

*Please refer to below Gland Open Diagram table. | **Only ST81430-G is a 2 door enclosure, all others are single doors.

Gland Open Diagram

O	C
 a - 30 b - 50	 a - 330 b - 30 c - 120
A	D
 a - 180 b - 30 c - 62	 a - 417 b - 30 c - 62
B	E
 a - 216 b - 30 c - 62	 a - 400 b - 330 c - 40 d - 100

Wall Brackets

Product Code	Description
WTC010	Flexbox wall bracket set of 4

Plastic Enclosure (IP65 - IP67) Light



	Product Code	Description	Height x Width x Depth
	EX088	Enclosure with 7x M25, knock-out entries	89 x 89 x 52mm
	EL111	Enclosure, RAL 7035, watertight, plain sides + top	113 x 113 x 68mm
	EL161	Enclosure, RAL 7035, watertight, plain sides + top	121 x 167 x 80mm
	EL171	Enclosure, RAL 7035, watertight, plain sides + top	156 x 180x 100mm
	EL231	Enclosure, RAL 7035, watertight, plain sides + top	186 x 246 x 101mm
	EL322	Enclosure, RAL 7035, watertight, plain sides + top	244 x 334 x 133mm

Plastic Enclosure (IP65 - IP67) Light

	Product Code	Description	Height x Width x Depth
	GSL171	Enclosure, RAL 7035, watertight, plain sides + top	156 x 180 x 160mm
	GSL231	Enclosure, RAL 7035, watertight, plain sides + top	186 x 246 x 180mm
	GSL322	Enclosure, RAL 7035, watertight, plain sides + top	244 x 334 x 191mm
	GSALT171	Enclosure, RAL 7035, watertight, plain sides + transparent lid	156 x 180 x 160mm
	GSALT231	Enclosure, RAL 7035, watertight, plain sides + transparent lid	186 x 246 x 180mm
	GSALT322	Enclosure, RAL 7035, watertight, plain sides + transparent lid	244 x 334 x 191mm

Mounting Plates (Polyester)

	Product Code	Description	Height x Width
	92121	Mounting plate polyester for reference 161	116 x 162mm
	92122	Mounting plate polyester for reference 171	151 x 175mm
	92124	Mounting plate polyester for reference 231	180 x 241mm
	92126	Mounting plate polyester for reference 322	239 x 328mm

IP40 Surface Distribution Boxes

	Product Code	No. of modules	Dimensions	Weight	Power Dissipation by Temperature Increase				
					20°C	25°C	30°C	35°C	40°C
	GPS12PT/RR	1x12 DIN rail	254x285x118mm	1.30kg	14.2W	17.7W	21.2W	24.8W	28.3W
	GPS18PT/RR	1x18 DIN rail	254x393x118mm	1.62kg	18.1W	22.6W	27.1W	31.7W	36.2W
	GPS24PT/RR	2x12 (24) DIN rail	419x285x118mm	2.14kg	21.2W	26.5W	31.8W	37.1W	42.4W
	GPS36PT/RR	3x12 (36) DIN rail	544x285x118mm	2.68kg	26.6W	33.2W	39.8W	46.5W	53.1W
	Includes earth & neutral bars								

Surface Mount IP65 CDN (Polycarbonate) Distribution Board Din

	Product Code	Description
	CDN4PT	Grey with transparent window, 4 way IP65 enclosures without earth and neutral bars
	CDN6PT	Grey with transparent window 6 way IP65 enclosures without earth and neutral bars
	CDN8PT	Grey with transparent window 8 way IP65 enclosures without earth and neutral bars
	CDN12PT	Grey with transparent window 12 way IP65 enclosures without earth and neutral bars
	CDN18PT	Grey with transparent window 18 way IP65 enclosures without earth and neutral bars
	CDN24PT	Grey with transparent window 24 way IP65 enclosures without earth and neutral bars
	CDN36PT	Grey with transparent window 36 way IP65 enclosures without earth and neutral bars
	CDN54PT	Grey with transparent window 54 way IP65 enclosures without earth and neutral bars
	*If DB must include neutral + earth bar then ordered seperately. Please use below product codes the bars	

Earth & Neutral Bars (Supplied Separately for CDN DB)

	Product Code	Description	Used with DB
	22000	Support + neutral and earth bar 4–6 module	CDN4PT
	22001	Support + neutral and earth bar 8 module	CDN8PT
	22002	Support + neutral and earth bar 12 module	CDN12PT
	22003	Support + neutral and earth bar 18–24 module	CDN18PT
	22004	Support + neutral and earth bar 36 module	CDN36PT
	22005	Support + neutral and earth bar 54 module	CDN54PT

Plugs and Sockets | IP44 50 / 60hz Schuko Type - Rubber Plug



 MALE: 00115 (80mm) FEMALE: 00125 (97mm)	Product Code	Current	Poles	Voltage (V)	Hour Code / Colour
	00115 (80mm)	10 / 16A	Male 2P+E 2P+E	250V AC	-
	00125 (97mm)	10 / 16A	Female 2P+E 2P+E	250V AC	-

Plugs and Sockets | IP44 50 / 60 Hz Low Voltage Sockets - Connectors

 02201 0320*	Product Code	Connection	Current	Poles	Voltage	Hour Code / Colour
	02201	Female	16A	2P+E	200 / 250V AC	6 - Blue
	03202	Female	16A	3P+E	380 / 415V AC	6 - Red
	03203	Female	16A	3P+N+E	240 / 415V AC	6 - Red
	03205	Female	32A	3P+E	380 / 415V AC	6 - Red
	03206	Female	32A	3P+N+E	240 / 415V AC	6 - Red

Plugs and Sockets | IP44 50 / 60 Hz Low Voltage Plugs

 02101 0310*	Product Code	Connection	Current	Poles	Voltage	Hour Code / Colour
	02101	Male	16A	2P+E	200 / 250V AC	6 - Blue
	03102	Male	16A	3P+E	200 / 415V AC	6 - Red
	03103	Male	16A	3P+N+E	200 / 415V AC	6 - Red

IP44 50 / 60 Hz Low Voltage Sockets - Straight Panel Mounting Plugs

 02311 02312 02313	Product Code	Connection	Current	Poles	Voltage	Hour Code / Colour
	02311	Female	16A	2P+E	200 / 250V AC	6 - Blue
	03312	Female	16A	3P+E	200 / 415V AC	6 - Red
	03313	Female	16A	3P+N+E	200 / 415V AC	6 - Red

IP44 50 / 60 Hz Low Voltage Plugs

 03105 03106	Product Code	Connection	Current	Poles	Voltage	Hour Code / Colour
	03105	Male	32A	3P+E	380 / 415V AC	6 - Red
	03106	Male	32A	3P+N+E	240 / 415V AC	6 - Red

IP66 - IP67 Low Voltage Safety Plug (Locking Ring)

 0365*	Product Code	Connection	Current	Poles	Voltage	Hour Code / Colour
	03652	Male	63A	3P+E	380 / 415V AC	6 - Red
	03653	Male	63A	3P+N+E	380 / 415V AC	6 - Red
	03655	Male	125A	3P+E	380 / 415V AC	6 - Red
	03656	Male	125A	3P+N+E	380 / 415V AC	6 - Red

IP44 50 / 60 Hz Low Voltage Sockets - Straight Panel Mounting Plugs

 0331*	Product Code	Connection	Current	Poles	Voltage	Hour Code / Colour
	03315	Female	32A	3P+E	380 / 415V AC	6 - Red
	03316	Female	32A	3P+N+E	200 / 346V AC 240 / 415V AC	6 - Red



IP67 50 / 60 Hz Low Voltage - Connectors



Product Code	Connection	Current	Poles	Voltage	Hour Code / Colour
02701	Female	16A	2P+E	200 / 250V AC	6 - Blue
03702	Female	16A	3P+E	380 / 415V AC	6 - Red
03703	Female	16A	3P+N+E	200 / 415V AC	6 - Red
03705	Female	32A	3P+E	380 / 415V AC	6 - Red
03706	Female	32A	3P+N+E	200 / 415V AC	6 - Red

IP67 50 / 60 Hz Low Voltage - Panel Mounting Sloping Sockets



Product Code	Connection	Current	Poles	Voltage	Hour Code / Colour
02821	Female	16A	2P+E	200 / 250V AC	6 - Blue
03802	Female	16A	3P+E	380 / 415V AC	6 - Red
03803	Female	16A	3P+N+E	200 / 415V AC	6 - Red
03825	Female	32A	3P+E	380 / 415V AC	6 - Red
03826	Female	32A	3P+N+E	200 / 415V AC	6 - Red

IP67 50 / 60 Hz Low Voltage - Surface Mounting Sockets



Product Code	Connection	Current	Poles	Voltage	Hour Code / Colour
02801	Female	16A	2P+E	200 / 250V AC	6 - Blue
03822	Female	16A	3P+E	380 / 415V AC	6 - Red
03823	Female	16A	3P+N+E	200 / 415V AC	6 - Red
03805	Female	32A	3P+E	380 / 415V AC	6 - Red
03806	Female	32A	3P+N+E	200 / 415V AC	6 - Red

IP67 50 / 60 Hz Low Voltage Sockets - Connectors



Product Code	Connection	Current	Poles	Voltage	Hour Code
03752	Female	63A	3P+E	380 / 415V AC	6 - Red
03753	Female	63A	3P+N+E	200 / 415V AC	6 - Red
03755	Female	125A	3P+E	380 / 415V AC	6 - Red
03756	Female	125A	3P+N+E	200 / 415V AC	6 - Red

IP67 50 / 60 Hz Low Voltage Sockets - Panel Mounting Sloping Sockets



Product Code	Connection	Current	Poles	Voltage	Hour Code
03852	Female	63A	3P+E	380 / 415V AC	6 - Red
03853	Female	63A	3P+N+E	200 / 415V AC	6 - Red
03855	Female	125A	3P+E	380 / 415V AC	6 - Red
03856	Female	125A	3P+N+E	200 / 415V AC	6 - Red



IP67 50 / 60 Hz Low Voltage Sockets - Panel Mounting Sockets

03872 | 03873

03875 | 03876

Product Code	Connection	Current	Poles	Voltage	Hour Code / Colour
03872	Female	63A	3P+E	380 / 415V AC	6 - Red
03873	Female	63A	3P+N+E	200 / 415V AC	6 - Red
03875	Female	125A	3P+E	380 / 415V AC	6 - Red
03876	Female	125A	3P+N+E	200 / 415V AC	6 - Red

IP44 - IP67 50 / 60Hz Low Voltage Safety Mounting Sockets

02831

03832 | 03836

03833 | 03835

03839 | 03840

Product Code	Connection	Current	Poles	Voltage	Hour Code / Colour
02831	Female	16A	2P+E	200 / 250V AC	6 - Blue
03832	Female	16A	3P+E	380 / 415V AC	6 - Red
03833	Female	16A	3P+N+E	200 / 415V AC	6 - Red
03835	Female	32A	3P+E	380 / 415V AC	6 - Red
03836	Female	32A	3P+N+E	200 / 415V AC	6 - Red
03839	Female	63A	3P+E	380 / 415V AC	6 - Red
03840	Female	63A	3P+N+E	200 / 415V AC	6 - Red

IP44 - IP67 50 / 60Hz Low Voltage Surface Mounting Safety Sockets With Din Rail

02841

03842 | 03846

03882 | 03883

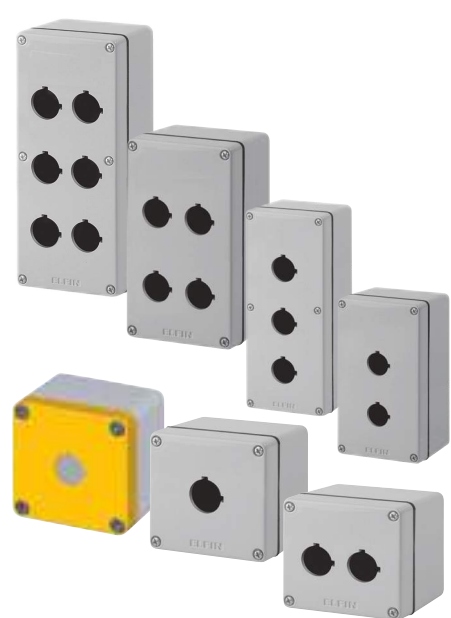
IP67 Product Code	Connection	Current	Poles	Voltage	Hour Code / Colour
02841	Female	16A	2P+E	200 / 250V AC	6 - Blue
03842	Female	16A	3P+E	380 / 415V AC	6 - Red
03843	Female	16A	3P+N+E	200 / 415V AC	6 - Red
03845	Female	32A	3P+E	380 / 415V AC	6 - Red
03846	Female	32A	3P+N+E	200 / 415V AC	6 - Red
03882	Female	63A	3P+E	380 / 415V AC	6 - Red
03883	Female	63A	3P+N+E	200 / 415V AC	6 - Red

*Earth leakage and circuit breakers ordered seperately.

M22 Pushbutton Enclosure Series 040 - Aluminium (RAL 7035)

- Enclosures made from Diecast Aluminium
 - M22 Pushbutton enclosures from 1 – 8 hole
 - Enclosure rating: IP66 - CEI EN 60529
- Temperature range: -40° to +100°C
 - Stainless steel AISI 304 Screws
 - Rubber Seals
 - M22 holes

Ordering Information



Product Code	Material	Width x Length x Depth	M22 Hole
040C0808-6EGP1	Diecast Aluminium	85 x 85 x 65mm	1 (Yellow face)
040C0909-7EP1C	Diecast Aluminium	92 x 92 x 70mm	1
040C0909-1EP1	Diecast Aluminium	92 x 92 x 100mm	1
040C0909-7EP2	Diecast Aluminium	92 x 92 x 70mm	2
040C0915-7P2	Diecast Aluminium	92 x 152 x 70mm	2
040C0915-1EP2	Diecast Aluminium	92 x 152 x 100mm	2
040C0920-7EP3	Diecast Aluminium	92 x 205 x 70mm	3
040C0920-1EP3	Diecast Aluminium	92 x 205 x 100mm	3
040C0915-1EP4	Diecast Aluminium	92 x 152 x 100mm	4
040C0915-7P4	Diecast Aluminium	92 x 152 x 70mm	4
040C0920-7EP4	Diecast Aluminium	92 x 205 x 70mm	4
040C0920-1EP4	Diecast Aluminium	92 x 152 x 100mm	4
040C0920-7EP6	Diecast Aluminium	92 x 205 x 70mm	6
040C0920-1EP6	Diecast Aluminium	92 x 205 x 100mm	6
040C0926-7EP8	Diecast Aluminium	92 x 265 x 70mm	8
040C1720-1EP12	Diecast Aluminium	170 x 205 x 100mm	12

Image displayed as M22 Hole visability and not product code.

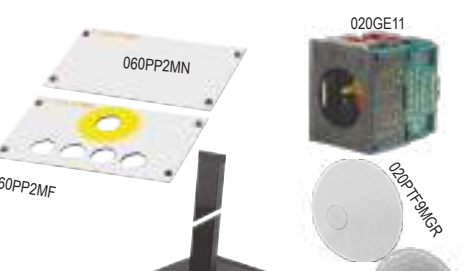
2 Hand Control Systems Series 060



Product Code	Description	Colour
060P2MGR*	2 Hand control station, 2x (1N/O +1N/C) buttons	Grey
060P2M0*	2 Hand control station, 2x (1N/O +1N/C) buttons	Orange
060MP2GR	1 Hand control station, complete	Grey

* Plate ordered separately (060PP2MF or 060PP2MN)

Accessories For 2 Hand Control Systems Series 060



Product Code	Description
060PP2MF	Front drilled cover plate
060PP2MN	Front plain cover plate. No Holes
060SP2M	Steel floor stand
020GE11	Spare contact block complete with bezel (1N/O + 1N/C)
020PTF9MGR	Mushroom push button head only

Image displayed as M22 Hole visability and not product code.

Enclosure Without Cable Exit Hole (A316L Stainless Steel)



Product Code	Width x Length x Depth	Description
040X0808-8P1	82 x 82 x 85mm	1x M22, enclosure, 1 hole
040X0814-8P2	82 x 142 x 85mm	2x M22, enclosure, 2 hole
040X0814-8P3	82 x 142 x 85mm	3x M22, enclosure, 3 hole
040X0820-8P5L	82 x 202 x 85mm	5x M22, enclosure, 5 hole
040X0820-8P6	82 x 202 x 85mm	6x M22, enclosure, 6 hole
040X1418-12P9	140 x 180 x 125mm	9x M22, enclosure, 9 hole

M22 Pushbutton Enclosure Series 080 Plastic

- Enclosures made from durable ABS
- M22 Pushbutton enclosures from 1–6 hole
- Enclosure rating: IP65 - EN/IEC 60529
- Temperature range: -25° to +50°
- Cover Material ABS RAL 7016 (gunmetal Grey)
- Steel Screws

Box Material ABS RAL 7035



Product Code	Material	Width x Length x Depth	M22 holes
080CA0808-6GP1	ABS	85 x 85 x 62mm	1 (Yellow face)
080CA0808-6GP1E	ABS	85 x 85 x 62mm	1 + shoud(Yellow face)
080CA0808-6P1	ABS	85 x 85 x 62mm	1
080CA0811-6P2	ABS	85 x 114 x 62mm	2
080CA0815-6P3	ABS	85 x 154 x 62mm	3
080CA0819-6P4	ABS	85 x 194 x 62mm	4
080CA0823-6P5	ABS	85 x 194 x 62mm	5
080CA0827-6P6	ABS	85 x 274 x 60mm	6

Image displayed as M22 Hole visibility and not product code.

Manual Pilot Device Accessories

Buzzer LED Flasher



Product Code	Technical Data	Colour
020SAL24	24V AC - DC , 20mA, 80dB, IP40, M20	Red
020SAL22	220V AC, 20mA, 80dB, IP40, M20	Red

Buzzer



Product Code	Technical Data	Colour
020SA24	24V AC - DC , 20mA, 80dB, IP40, M20	Black
020SA22	220V AC, 20mA, 80dB, IP40, M20	Black

Indication Labels



Product Code	Operation
020D23	Emergency Stop, Ø 60
020DD23	Guard Aluminium, Emergency Stop, Ø 90,

Protection Systems

020PEO

020GPG22

020GPE



Product Code	Description
020PEO	M20, Grey, plastic
020GPG22	M20, Yellow, plastic
020GPE	For M40 button mushroom, guard aluminium

Die Cast Enclosures, Neutral (Non-Painted) Aluminium



Product Code*	Dimensions	Product Code*	Dimensions
040C0909-5	92 x 92 x 52mm	040C1515-7N	152 x 152 x 70mm
040C0909-7N	92 x 92 x 70mm	040C0715-8N	70 x 155 x 80mm
040C0909-1N	92 x 92 x 100mm	040C0920-7N	92 x 205 x 70mm
040C0911-8N	92 x 118 x 80mm	040C0920-1N	92 x 205 x 100mm
040C0711-8N	70 x 118 x 80mm	040C1720-7N	170 x 205 x 70mm
040C0915-7N	70 x 152 x 70mm	040C0926-7N	90 x 265 x 70mm
040C0915-1N	92 x 152 x 100mm	040C0926-1N	92 x 265 x 100mm
040C1515-1N	152 x 152 x 100mm	040C2325-1N	230 x 257 x 100mm

*N - Non painted. (neutral) | Image displayed for visual representation only and not product code.



Enclosures (Wall Mount SMC)

	Material	SMC (Sheet Moulding Compound), PC for window
	Operating Temperature	-50°C to +200°C
	Glow Wire Capability / Flammability	960° / UL94 V0
	Expected UV Life (Direct Exposure)	25 years +
	IP Level	IP66
	IK Level	IK10

Enclosures (Wall Mount SMC)

	Series (IP66) (SMC, RAL 7035 Grey) + (SMC, B52 Orange)			
	Product Code Grey	Product Code Orange	Description	Dimensions (W x H x D)
	ALL-003	ALL-003/O	ALLBROX 3 with SMC device plate enclosure	250 x 350 x 200mm
	ALL-004	ALL-004/O	ALLBROX 4 with SMC device plate enclosure	300 x 400 x 200mm
	ALL-004/D	ALL-004/D/O	Allbrox 4D Deep with SMC Device plate enclosure	300 x 400 x 273mm
	ALL-005	ALL-005/O	ALLBROX 5 with SMC device plate enclosure	350 x 500 x 200mm
	ALL-006	ALL-006/O	ALLBROX 6 with SMC device plate enclosure	400 x 600 x 200mm
	ALL-006/D	ALL-006/D/O	ALLBROX 6 deep with SMC device plate enclosure	400 x 600 x 250mm
	ALL-006_5-L	ALL-006_5-L/O	ALLBROX 6.5 landscape with SMC device plate enclosure	700 x 500 x 246mm
	ALL-006_5-P	ALL-006_5-P/O	ALLBROX 6.5 portrait with SMC device plate enclosure	500 x 700 x 246mm
	ALL-007_1-P	ALL-007_1-P/O	ALLBROX 7.1 portrait with SMC device enclosure plate	710 x 828 x 287mm
	ALL-007_1-L	ALL-007_1-L/O	ALLBROX 7.1 landscape with SMC device plate enclosure	828 x 710 x 287mm
	ALL-008-P	ALL-008-P/O	ALLBROX 8 Portrait with SMC device plate enclosure	800 x 1000 x 320mm
	ALL-008-L	ALL-008-L/O	ALLBROX 8 Landscape SMC device plate enclosure	1000 x 800 x 320mm

Enclosure With Window (PC)

	Product Code Grey	Product Code Orange	Description
	ALL-003/CLEARPC	ALL-003/CLEARPC/O	Allbrox 3 with Clear Polycarbonate window enclosure
	ALL-004/CLEARPC	ALL-004/CLEARPC/O	Allbrox 4 with Clear Polycarbonate window enclosure
	ALL-005/CLEARPC	ALL-005/CLEARPC/O	Allbrox 5 with Clear Polycarbonate window enclosure
	ALL-006/CLEARPC	ALL-006/CLEARPC/O	Allbrox 6 with Clear Polycarbonate window enclosure

Distribution Board Kit (For Allbrox) Kit Only

	Product Code	Description
	ALL-004/DBK-A	Allbrox 4 Distribution Board Kit Assembled
	ALL-005/DBK-A	Allbrox 5 Distribution Board Kit Assembled
	ALL-006/DBK-A	Allbrox 6 Distribution Board Kit Assembled

Inner Door - Only

	Product Code	Description
	ALL-004/IN/DOOR	Allbrox 4 Inner door
	ALL-005/IN/DOOR	Allbrox 5 Inner door
	ALL-006/IN/DOOR	Allbrox 6 Inner door

New Generation SV Busbar Holder



Rated Working Voltage Up To 1000 Volt, 50/60 HZ. ACcording to VDE 0660

New Type Adjustable Busbar Holder

With the wiring techniques of wire section material and Busbar without pinholes adopted, the bending - proof intensity and short – circuit – proof capacity of the Busbar are improved, and it also helps to cool the Busbar, lower the temperature and increase current capacity.



SV Busbar Holder

Product Code	Rated Current Up To	No. Of Poles	Centre Distance Of Busbar	Suitable For Bar Size	Tightening Turning Moment		Per Package
					Fixed Screw	Fixed Cover	
SV1	800	1	-	30 x 10mm	5 - 8Nm	1 - 3Nm	2
SV2	800	2	60mm	30 x 10mm, 30 x 5mm, 25 x 10mm, 25 x 5mm, 20 x 10mm, 20 x 5mm, 20 x 10mm, 15 x 10mm, 15 x 5mm, 12 x 10mm, 12 x 5mm	3 - 5Nm	1 - 3Nm	2
SV3	800	3	60mm	30 x 10mm, 30 x 5mm, 25 x 10mm, 25 x 5mm, 20 x 10mm, 20 x 5mm, 15 x 10mm, 15 x 5mm	3 - 5Nm	1 - 3Nm	2
SV4	800	4	60mm	30 x 20mm, 30 x 5mm, 25 x 10mm, 25 x 5mm, 20 x 10mm, 20 x 5mm, 15 x 10mm, 15 x 5mm	3 - 5Nm	1 - 3Nm	2

Copper Busbar



Product Code	Description	Rated Current	Length
Cu221	30 x 5mm, Busbar	447A	3m
Cu222	25 x 5mm, Busbar	384A	3m
Cu223	20 x 10mm, Busbar	497A	3m
Cu224	20 x 5mm, Busbar	319A	3m
Cu225	30 x 10mm, Busbar	800A	3m

SV Busbar Holder Terminal

Material: Steel / Metal
Which is widely applied in power distribution, automation industry, building control technology, communication and traffic.



Product Code	Thickness Of Bus	Round Lead Wiring	Piled Copper Bus Terminal Space	Torque	Per Package	Min. (H)	Max. (H)
SV201	4–5mm	1–4mm ²	-	2Nm	50pcs	17mm	23mm
SV202	4–5mm	2.5–16mm ²	8 x 8mm	3Nm	50pcs	22mm	29mm
SV203	4–5mm	16–50mm ²	10.5 x 11mm	6–8Nm	50pcs	26mm	39mm
SV204	4–5mm	35–70mm ²	16.5 x 15mm	10–12Nm	50pcs	39mm	57mm
SV205	4–5mm	70–185mm ²	22.5 x 20mm	12–15Nm	50pcs	44mm	66mm
SV206	9–10mm	1–4mm ²	-	2Nm	50pcs	17mm	23mm
SV207	9–10mm	2.5–16mm ²	8 x 8mm	3Nm	50pcs	22mm	29mm
SV208	9–10mm	16–50mm ²	10.5 x 11mm	6–8Nm	50pcs	26mm	39mm
SV209	9–10mm	35–70mm ²	16.5 x 15mm	10–12Nm	50pcs	39mm	57mm
SV210	9–10mm	70–185mm ²	22.5 x 20mm	12–15Nm	50pcs	44mm	66mm

Distribution Blocks | Busbar Systems (Distribution Blocks)



    	Product Code	Type	Wire Size-Solid Core, Lead Multi-Strand, Lead	Width x Height x Length	Terminals Per Pole	Terminals Per Pole Dimension	Description
	UK411	KA rating peak max. Current: 100A, Voltage: 500V	1.5–6mm ² 6–16mm ² , 10–16mm 10–25mm, 10–35mm	147 x 50 x 85mm	4	3x 16mm, 1x 25mm, 7x 6mm	Distribution Blocks
	UK415	KA rating peak max. Current: 100A, Voltage: 500V	1.5–6mm ² 6–16mm ² , 10–25mm 2.5–6mm, 10–35mm	182 x 50 x 85mm	4	3x 16mm, 1x 25mm, 11x 6mm	Distribution Blocks
	UK412	KA rating peak max. Current: 160A, Voltage: 500V	1x 10–50mm ² , 3x 10–35mm ² , 8x 2.5–16mm	170 x 70 x 85mm	4	3x 16mm, 1x 25mm, 7x 6mm	Distribution Blocks
	UK207	KA rating peak max. Current: 100A Voltage: 500V	1.5–6mm ² , 6–16mm ²	94 x 50 x 44mm	2	1x 16mm, 1x 24mm, 5x 6mm	Distribution Blocks
	UK407	KA rating peak max. Current: 100A Voltage: 500V	1.5–6mm ² 6–16mm ² , 2.5–6mm 10–25mm	109 x 50 x 85mm	4	1x 16mm, 1x 24mm, 5x 6mm	Distribution Blocks

4-pole Terminal Box 250A

4-pole Terminal Box 400A

	Product Code	LK34-25011	LK34-40011	
	Rated Current	250A	400A	
	Nominal Voltage	660V	660V	
	Copper Platoon Size	20 x 5 x 248mm	25 x 6 x 248mm	
	Phase	4	4	
	In/Out	10x M6 + 1x M8	10x M6+1x M8	
	IPK KA	30	30	
	Vimp KV	8	8	
	Outline Dimensions	280 x 170 x 77mm	280 x 150 x 116mm	

Economy Enclosure Fans & Filters

	Product Code	Description	Voltage	Airflow
	FK5521.230	109 x 109mm, Fan & filter	240V AC	67m³/h
	FK5521.024	109 x 109mm, Fan & filter	24V DC	67m³/h
	FK5522.230	150 x 150mm, Fan & filter	240V AC	67m³/h
	FK5522.024	150 x 150mm, Fan & filter	24V DC	67m³/h
	FK5523.230	204 x 204mm, Fan & filter	240V AC	120m³/h
	FK5523.024	204 x 204mm, Fan & filter	24V DC	120m³/h
	FK5525.230	250 x 250mm, Fan & filter	240V AC	265m³/h
	FK5525.024	250 x 250mm, Fan & filter	24V DC	265m³/h
	FK5526.230	325 x 325mm, Fan & filter	240V AC	600m³/h
	FK5527.230	325 x 325mm, Fan & filter	240V AC	800m³/h
Each Fan supplied with 1x Filter (combo)				

Enclosure Exit Filters (Only)

	Product Code	Description
	FK5521.300	109 x 109mm, Exit filter
	FK5522.300	150 x 150mm, Exit filter
	FK5523.300	204 x 204mm, Exit filter
	FK5525.300	250 x 250mm, Exit filter
	FK5526.300	325 x 325mm, Exit filter
	FK5527.300	325 x 325mm, Exit filter

Ecoline Lamp (Economy LED for Enclosures) | LED 025



Power Consumption	Max. 5W
Luminosity	400Lm at 120° (1,200Lm at 360° or equivalent 95W light bulb)
Lamp Type	LED, angle of radiation 120° light Colour: daylight, Colour temperature: 6,000K to 7,000K
Connection	2-pole dual pressure clamp for rigid wire 2.5mm², stranded wire (with wire end ferrule) 1.5mm²
Operating/Storage Temperature	-30 to +60°C / -40 to +85°C

- Integrated power unit
- Long-lived and maintenance-free by LED technology
- Wide voltage range



Product Code Clip Fixing	Operating Voltage	Switch	Size (L x H x D)
02542.3-13	AC 100–240V, 50 / 60 Hz (min. AC 90V, max. AC 265V) DC 90–110V (min. DC 80V, max. DC 125V)	No Switch	351 x 41 x 52mm
02542.1-13	DC 24–48V (min. DC 20V, max. DC 60V)	No Switch	351 x 41 x 52mm
Supplied with mounting bracket			

Small Compact Thermostat - KTO 011 / KTS 011



Technical Data

Max. Switching Capacity	250V AC, 10 (2) A / 120V AC, 15 (2) A DC 30W at 24V DC to 72V DC
Max. Inrush Current	AC 16A for 10 sec.
Connection	2-pole terminal, clamping torque 0.5Nm max.: Rigid wire 2.5mm² (AWG 14) stranded wire 1.5mm² (AWG 16)
Mounting	Clip for 35mm DIN rail, EN 60715
Dimensions	60 x 33 x 43mm
Operating/Storage Temperature	-45 to +80°C

KTO 011:

- Thermostat (normally closed); contact breaker for regulating heaters. The contact opens when temperature is rising.

KTS 011:

- Thermostat (normally open); contact closes as temperature rises, regulating filter fans, heat exchangers, or signalling when the temperature exceeds the limit.

Small Compact Thermostat - KTO + KTS

Product Code Contact Breaker (Nc)	Description	Product Code Contact Maker (No)	Description	Setting Range
01140.0-00	KTO 011 (NC)	01141.0-00	KTS 011(NO)	0 to +60°C
01159.0-00	KTO 011 (NC)	01158.0-00	KTS 011 (NO)	+20 to +80°C
01140.9-00	KTO 011 (NC)	01141.9-00	KTS 011 (NO)	+32 to +140°C

Fuse Switches



Disconnectors



Product Code	Description	Current Rating	Size	Poles
432.11.21.71	Nh Fuse Switch Disconnectors	Up to 125A	00	3
432.12.01.06.00	Nh Fuse Switch Disconnectors	Up to 160A	00	3
422F410601DC	NH BUC Switch Disconnectors	Up to 160A	00	2
422.141.06	Nh Fuse Switch Disconnectors	Up to 160A	00	1
432.13.20.13	Nh Fuse Switch Disconnectors	Up to 250A	1	3
432.14.20.23	Nh Fuse Switch Disconnectors	Up to 400A	2	3
432.15.20.34	Nh Fuse Switch Disconnectors	Up to 630A	3	3

Standard Protection Fuses With Indicator

Product Code	DIN Size	Current **	Short Circuit Current	Fault Capacity
24700-*	C00	6A, 35A, 10A, 40A, 16A, 50A, 20A, 63A, 25A, 80A, 32A, 100A	120kA	500V
24585-*	0	100A, 125A, 160A	120kA	500V
24710-*	0	125A, 160A	120kA	500V
24720-*	1	200A, 250A	120kA	500V
24582-*	2	200A, 250A, 315A, 355A, 400A	120kA	500V (UFB Type Screw Mount)
24588-*	3	400A, 500A, 630A	120kA	500V (UFB Type Screw Mount)

*Add current to complete product code. | ** add current to product code

DC NH Fuses

FLEX Gear

	Product Code	Description
	NH00-GR-100A	NH00, gR DC Fuse, 690VAC/DC , 50kA, 100A
	NH00-GR-125A	NH00, gRDC Fuse, 690VAC/DC , 50kA, 125A
	NH00-GR-160A	NH00, gRDC Fuse, 690VAC/DC , 50kA, 160A
	NH1-GR-200A	NH1, gR DC Fuse, 690VAC/DC , 50kA, 200A
	NH1-GR-250A	NH1, gR DC Fuse, 690VAC/DC , 50kA, 250A

Miniature and Molded Case Circuit Breakers | 2 to 4–Pole (DC Voltage)

BENY

	Product Code	Poles	Current Rating	Voltage Rating	Type
	BB1-63-2P-16A	2	16 A	600V DC	MCB (Miniature Circuit Breaker)
	BB1-63-2P-20A	2	20 A	600V DC	MCB (Miniature Circuit Breaker)
	BB1-63-2P-25A	2	25 A	600V DC	MCB (Miniature Circuit Breaker)
	BB1-63-2P-32A	2	32 A	600V DC	MCB (Miniature Circuit Breaker)
	BB1-63-2P-40A	2	40 A	600V DC	MCB (Miniature Circuit Breaker)
	BB1-63-2P-63A	2	63 A	600V DC	MCB (Miniature Circuit Breaker)
	BB2-40-3P-10A-1500	3	10 A	1500V DC	MCB (Miniature Circuit Breaker)
	BB2-40-3P-13A-1500	3	13 A	1500V DC	MCB (Miniature Circuit Breaker)
	BB2-40-3P-16A-1500	3	16 A	1500V DC	MCB (Miniature Circuit Breaker)
	BB2-40-3P-20A-1500	3	20 A	1500V DC	MCB (Miniature Circuit Breaker)
	BB2-40-3P-25A-1500	3	25 A	1500V DC	MCB (Miniature Circuit Breaker)
	BB2-40-3P-32A-1500	3	32 A	1500V DC	MCB (Miniature Circuit Breaker)
	BB2-40-3P-40A-1500	3	40 A	1500V DC	MCB (Miniature Circuit Breaker)
	BB1-63-4P-16A	4	16 A	1000V DC	MCB (Miniature Circuit Breaker)
	BB1-63-4P-20A	4	20 A	1000V DC	MCB (Miniature Circuit Breaker)
	BB1-63-4P-25A	4	25 A	1000V DC	MCB (Miniature Circuit Breaker)
	BB1-63-4P-32A	4	32 A	1000V DC	MCB (Miniature Circuit Breaker)
	BB1-63-4P-40A	4	40 A	1000V DC	MCB (Miniature Circuit Breaker)
	BB1-63-4P-63A	4	63 A	1000V DC	MCB (Miniature Circuit Breaker)
	BD125-4P-80A	4	80 A	1000V DC	MCCB (Moulded Case Circuit Breaker)
	BD125-4P-100A	4	100 A	1000V DC	MCCB (Moulded Case Circuit Breaker)
	BD125-4P-160A	4	160 A	1000V DC	MCCB (Moulded Case Circuit Breaker)
	BD125-4P-200A	4	200 A	1000V DC	MCCB (Moulded Case Circuit Breaker)

Rotary Enclosed Change Over Switch (AC 230V)

FLEX Gear

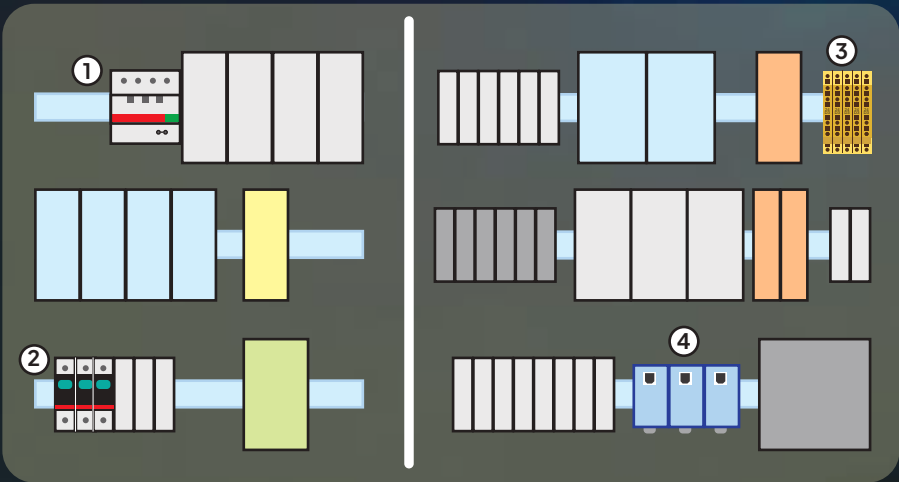
	Product Code	Description	Pole	Amps	kW
	IC220	3 Position rotary handle center off, IP65	2	20A	3kW
	IC240	3 Position rotary handle center off, IP65	2	40A	7.5kW
	IC263	3 Position rotary handle center off, IP65	2	63A	15kW
	IC2100	3 Position rotary handle center off, IP65	2	100A	18.5kW
	IC420	3 Position rotary handle center off, IP65	4	20A	3kW
	IC432	3 Position rotary handle center off, IP65	4	32A	6.5kW
	IC440	3 Position rotary handle center off, IP65	4	40A	7.5kW
	IC463	3 Position rotary handle center off, IP65	4	63A	15kW
	IC4100	3 Position rotary handle center off, IP65	4	100A	18.5kW
	IC4100				

The Comprehensive 'Surge Protector' Approach



The equipment used in your manufacturing facilities is very sensitive and vulnerable to lightning and switching surges. The cost of fully surge-protecting an industrial plant is limited and provides peace of mind, ensuring that your system will be operational when you need it most.

Four main sources of risk that must be protected:



1 AC Power Supply

(Main, auxiliaries.)
Provides the primary electrical power to a system and delivers auxiliary supply for supporting circuits or devices, ensuring stable and reliable operation of equipment.



3 Dataline

(RS485, 4-20mA, etc.)
Provides reliable communication and signal transmission for monitoring, control, and data exchange between devices, using industrial standards such as RS485 and 4-20mA.



2 DC Power Supply

(PLC, relays, 24V, etc.)
Delivers regulated DC power, typically 24V, for control systems, PLCs, relays, and associated devices, ensuring reliable operation of automation and protection circuits.



4 Ethernet

(Monitoring, SCADA, etc.)
Enables high-speed data communication and network connectivity for monitoring, SCADA systems, and device integration within industrial and automation environments.



AC Surge Protectors



(Compact)

3-Phase+N Type 1 + 2 Surge Protectors | DIN Rail

Product Code	571134	821710244	64136
Model	DS134RS-280/G	DAC1-13S-31-275	DACN1-25CVGS-31-275/SC
Network	230 / 400V	230 / 400V	230 / 400V
SPD Configuration	3-phase + N	3-phase + N	3-phase + N
Nominal line Voltage	230V AC	230V AC	230V AC
Max. AC Operating Voltage	275V	280V	275V
Nominal Discharge Current	20kA	20kA	25kA
Max. Discharge Current	50kA	50kA	100kA
Connection	Screw terminal 25mm² max.	Screw terminal 25mm² max.	Screw terminal 25mm² max.
Dimensions (width)	72mm	72mm	72mm
Remote Signaling	Yes	Yes	Yes
Surge counter integrated	No	-	Yes



Single-Phase Type 1 + 2 Surge Protectors

Product Code	571132	821710342
Model	DS132RS-280/G	DAC1-13S-11-320
Network	230V	230V
SPD Configuration	Single phase	Single phase
Max. AC Operating Voltage	275V	320V
Nominal Discharge Current	20kA	20kA
Max. Discharge Current	50kA	50kA
Connection	L/N and N/PE	Screw terminal 25mm² max.
Mounting	Symmetrical rail 35mm (EN 60715)	DIN Rail
Dimensions (width)	36mm	72mm
Remote Signaling	Yes	Yes
Surge counter integrated	-	-



3-Phase+N Type 2 Surge Protectors (Pluggable)

Product Code	461132	821110244
Model	DS44S-280/G (Compact)	DAC50S-31-275
Network	230 / 400V	230 / 400V
SPD Configuration	3-phase + N	3-phase + N
Max. AC Operating Voltage	275V AC	275V AC
Nominal Discharge Current	20kA	20kA
Maximal Discharge Current	40kA	50kA
Connection	Screw terminal 10mm² max.	Screw terminal 25mm² max.
Mounting	DIN Rail	DIN Rail
Dimensions (width)	36mm	72mm
Remote Signaling	Yes	Yes
		Enquire DS44S-230/G SPD still available.



Single-Phase Type 2 Surge Protectors

Product Code	461131	821110242
Model	DS42S-280/G	DAC50S-11-275
Network	230 / 400V	230 / 400V
SPD Configuration	Single-phase	Single-phase
Max. AC Operating Voltage	280V	275V
Nominal Discharge Current	20kA	20kA
Maximal Discharge Current	40kA	50kA
Connection	Screw terminal 25mm² max.	Screw terminal 25mm² max.
Mounting	DIN Rail	DIN Rail
Dimensions (width)	18mm	36mm
Remote Signaling	Yes	Yes
		Enquire DS42S-230/G SPD still available.

DC Surge Protectors



Type 1+2 / 1500V DC Surge Protectors

Product Code	482523	65212103
Model	DS50PV-1500/12KT1	DPVN1-6CS-21Y-1500
Network	PV network 1250V DC	PV 1500V DC
SPD Configuration	1 + 2	1 + 2 + 3
Max. PV Operating Voltage	1500V DC	1500V DC
Nominal Discharge Current	15kA	20kA
Maximal Discharge Current	40kA	40kA
Connection	+/-/PE	+/-/PE
Mounting	Symmetrical rail 35mm (EN 60715)	Symmetrical rail 35mm (EN 60715)
Dimensions (width)	57mm	44.5mm
Remote Signaling	No (enquire)	Yes



Type 1+2 / 1000V DC Surge Protectors

Product Code	482383	65212102
Model	DS50PV-1000G/12KT1	DPVN1-6CS-21Y-1200
Network	PV 1000V DC	PV 1200V DC
SPD Configuration	1 + 2	1 + 2 + 3
Max. PV Operating Voltage	1200V DC	1200V DC
Nominal Discharge Current	15kA	20kA
Maximal Discharge Current	40kA	40kA
Connection	+/-/PE	+/-/PE
Mounting	Symmetrical rail 35mm (EN 60715)	Symmetrical rail 35mm (EN 60715)
Dimensions (width)	54mm	44.5mm
Remote Signaling	No (enquire)	Yes



Type 1+2 / 600V DC Surge Protectors

Product Code	482443	65112101
Model	DS50PVS-600G/12KT1	DPVN1-6CS-21Y-600
Network	PV 600V DC	PV 600V DC
SPD Configuration	1 + 2	1 + 2 + 3
Max. PV Operating Voltage	720V DC	600V DC
Nominal Discharge Current	15kA	20kA
Maximal Discharge Current	40kA	40kA
Connection	+/-/PE	+/-/PE
Mounting	Symmetrical rail 35mm (EN 60715)	Symmetrical rail 35mm (EN 60715)
Dimensions (width)	54mm	44.5mm
Remote Signaling	Yes	Yes



Type 2 / 1500V DC Surge Protectors

Product Code	480521	65111103
Model	DS50PV-1500/51	DPVN40C-21Y-1500
Network	PV 1250V DC	PV 1500V DC
SPD Configuration	2	2 + 3
Max. PV Operating Voltage	1500V DC	1500V DC
Nominal Discharge Current	15kA	20kA
Maximal Discharge Current	40kA	40kA
Connection	+/-/PE	+/-/PE
Mounting	Symmetrical rail 35mm (EN 60715)	Symmetrical rail 35mm (EN 60715)
Dimensions (width)	54mm	44.5mm
Remote Signaling	No (enquire)	Yes

DC Surge Protectors (continued)



Compact

Type 2 / 1000V DC

Product Code	480321	65112102
Model	DS50PV-1000/51	DPVN40CS-21Y-1200
Network	PV 1000V DC	PV 1200V DC
SPD Configuration	2	2
Max. PV Operating Voltage	1200V DC	1200V DC
Nominal Discharge Current	15kA	20kA
Maximal Discharge Current	40kA	40kA
Connection	+/-/PE	+/-/PE
Mounting	Symmetrical rail 35mm (EN 60715)	Symmetrical rail 35mm (EN 60715)
Dimensions (width)	54mm	44.5mm
Remote Signaling	No	Yes



Compact

Type 2 / 600V DC

Product Code	480401	65212101
Model	DS50PV-600	DPVN1-6CS-21Y-600
Network	PV 600V DC	PV 600V DC
SPD Configuration	2	2 + 3
Max. PV Operating Voltage	720V DC	600V DC
Nominal Discharge Current	15kA	20kA
Maximal Discharge Current	40kA	40kA
Connection	+/-/PE	+/-/PE
Mounting	Symmetrical rail 35mm (EN 60715)	Symmetrical rail 35mm (EN 60715)
Dimensions (width)	36mm	44.5mm
Remote Signaling	No.	Yes

LED Outdoor Lighting



Din Rail Single Phase Surge Protectors

Product Code	841211	355913
Model	MLPM1-230L-R	DLPM1-230L
AC Network	230V single-phase	230V single-phase
SPD Type	Type 2	Type 2
Nominal Discharge Current	5kA	5kA
Maximal Discharge Current	10kA	10kA
Connection	Screw terminal 2.5mm² max.	Screw terminal 2.5mm² max.
Mounting	On plate	DIN Rail
End Of Life Indicator	Red mechanical indicator	Red mechanical indicator
SPD Disconnection	AC line disconnect	AC line disconnect
Remote Signalling	No	No
Dimensions (width x height)	42 x 60mm	17.9 x 80mm

ZBK Switch Disconnectors Panel Mount (AC) & NEW S3 PM Switch Disconnecter



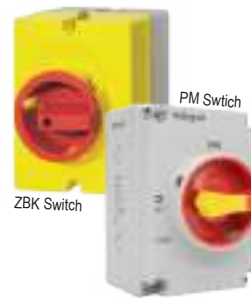
ZBK On-off Switch Panel Mounting						NEW S3 PM Switch Disconnecter/ Panel Mount Padlockable (red/yellow)			
Product Code	Poles	Product Code	Poles	Amps		Product Code	Poles	Plate for PM	Amps
ZBK20EHN4A3	3	ZBK20EHN4A4	4	20		S3-00203P4PM	3	35.5mm	20
ZBK25EHN4A3	3	ZBK25EHN4A4	4	25		S3-00253P4PM	3	35.5mm	25
ZBK40EHN4A3	3	ZBK40EHN4A4	4	40		S3-00403P4PM	3	35.5mm	40
ZBK63EHN4A3	3	ZBK63EHN4A4	4	63		S3-00633P4PM	3	52.5mm	63
ZBK80EHN4A3	3	ZBK80EHN4A4	4	80		-	-	-	-
ZBK125EHN4A3	3	ZBK125EHN4A4	4	125		S3-01253P4PM	3	69.1mm	125
Add-on pole below.									

ZBK Switch Disconnectors Base Mount (AC) & Door Interlock Disconnecter (with shaft)



ZBK Switch Disconnectors Base Mount (AC)						NEW S3 AC Door Interlock Disconnecter Padlockable (red/yellow)			
Product Code	Poles	Product Code	Poles	Amps		Product Code	Poles	Plate for PM	Amps
ZBK20VZVHN4A3	3	ZBK20VZVHN4A4	4	20		S3-00203P4DC	3	35.5mm	20
ZBK25VZVHN4A3	3	ZBK25VZVHN4A4	4	25		S3-00253P4DC	3	35.5mm	25
ZBK40VZVHN4A3	3	ZBK40VZVHN4A4	4	40		S3-00403P4DC	3	35.5mm	40
ZBK63VZVHN4A3	3	ZBK63VZVHN4A4	4	63		S3-00633P4DC	3	52.5mm	63
ZBK80VZVHN4A3	3	ZBK80VZVHN4A4	4	80		-	-	-	-
ZBK125VZVHN4A3	3	ZBK125VZVHN4A4	4	125		S3-01253P4DC	3	69.1mm	125
Add-on pole below.									

ZBK Switch Disconnectors Enclosed IP65 (AC) & EP Switch Disconnecter Enclosure



ZBK On-off Switch Enclosed						NEW S3 EP Switch Disconnecter Enclosed			
Product Code	Poles	Product Code	Poles	Amps		Product Code Plastic	Product Code Aluminium	Poles	Amps
ZBK20PFHN4A3	3	ZBK20PFHN4A4	4	20		S3-00203P4EP	S3-00203P4EA	3	20
ZBK25PFHN4A3	3	ZBK25PFHN4A4	4	25		S3-00253P4EP	S3-00253P4EA	3	25
ZBK40PFHN4A3	3	ZBK40PFHN4A4	4	40		S3-00403P4EP	S3-00403P4EA	3	40
ZBK63PFLHN4A3	3	ZBK63PFLHN4A4	4	63		S3-00633P4EP	S3-00633P4EA	3	63
ZBK80PFLHN4A3	3	ZBK80PFLHN4A4	4	80		-		-	-
ZBK125PFLHN4A3	3	ZBK125PFLHN4A4	4	125		S3-01253P4EP		3	125
Add-on pole below.									

ZBK Disconnecter Accessories (AC)

Product Code	Description
ZBK1H11	Auxiliary 1N/O + 1N/C
ZBK40V	Neutral for 25-40 Amps switch disconnecter

Add-on Auxiliary Contacts for PM, DC & EP Switches Accessories & Shaft Extension

Product Code	Description	Width
DS3AUP1	Auxiliary 1N/O + 1N/C for DC & EP switch disconnecter	9mm
DS3AUP1R	Auxiliary 1N/O + 1N/C for PM switch disconnecter	9mm
AC electrical characteristics: AC-13: 10A, 230V~ AC-15: 6A, 230V~		
Product Code	Description	Length
DS3EPA3	Shaft extension	320mm

Side Mount Add-on Pole Accessories for PM, DC & EP Switches



Simultaneous		Fixed Neutral		Technical Specifications for the Simultaneous and Fixed Neutral		
Front Installation*	Reverse Installation**	Front Installation*	Reverse Installation**	Amps	Size	Width
Product Code	Product Code	Product Code	Product Code			
DS3PSAF	DS3PSAR	DS3PNAF	DS3PNAR	16A-40A	000	11mm
DS3PSBF	DS3PSBR	DS3PNBF	DS3PNBR	63A-80A	00	16mm
DS3PSOF	DS3PSOR	DS3PNOF	DS3PNOR	100A-125A	0	21.3m

* Front Installation DC /EP | ** Reverse Installation PM

S5 3P+N Base Mount Switch Disconnectors (AC)



- Shaft included with every Handle
- Conforms to IEC60947-3 Available from 40 Amp to 6300 Amp
- 3-pole & Neutral (Fully rated 4th/Neutral Pole)
- New Ergonomic Weatherproof Defeatable Handle
- Pad lockable in Off Position
- Door Interlock Handle in On Position

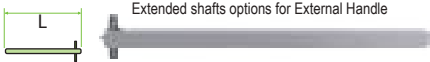
Product Code	Amperage AC21	Poles
S5-00403NS0	40 Amp	3P+N
S5-00633PB0	63 Amp	3P
S5-00803NS0	80 Amp	3P+N
S5-01253NS0	125 Amp	3P+N
S5-01253PB0	125 Amp	3P
S5-01603NS0	160 Amp	3P+N
S5-02003NS0	200 Amp	3P+N
S5-02003PS0	200 Amp	3P
S5-02004PR0	200 Amp	4P
S5-02503NR0	250 Amp	3P+N
S5-02503PR0	250 Amp	3P
S5-03153NR0	315 Amp	3P+N
S5-03153PR0	315 Amp	3P
S5-04003NC0	400 Amp	3P+N
S5-04003PC0	400 Amp	3P
S5-04004PC0	400 Amp	4P
S5-06303NR0	630 Amp	3P+N
S5-06303PR0	630 Amp	3P
S5-08003PR0	800 Amp	3P+N
S5-10003NCC	1000 Amp	3P+N
S5-12504PC0	1250 Amp	3P+N
S5-16003NS0	1600 Amp	3P+N

Available up to 6300 Amp 6 & 8-pole, Motor kits, Auxiliary Contacts & Direct Mount Handles also available.

Accessories



External Handle Blue with standard shaft included



Extended shafts options for External Handle



Terminal shrouds



Direct Handle



Auxiliary Switch

Product Code	Amperage AC21
DS-SA01	40A–200A Door Interlocked Handle & 177mm (L) Shaft
DS-SA11	250A–400A Door Interlocked Handle & 227mm (L) Shaft
DS-LA21	630A–800A Door Interlocked Handle & 195mm (L) Shaft
DS-LA31	1000A Door Interlocked Handle & 186mm (L) Shaft
DS-EP05	40A–200A Extension Shaft only 387mm (L)
DS-EP15	250A–400A Extension Shaft only 535mm (L)
DS-EP24	500A–1000A Extension Shaft only 535mm (L)
DS-CU01	200A Terminal Shroud
DS-CU11	250A–400A Terminal Shroud
DS-CU21	500A–800A Terminal Shroud
DS-CU31	1000A Terminal Shroud
DS-SI01	40A–200A Direct Handle
DS-SI11	250A–400A Direct Handle
DS-LI21	500A–800A Direct Handle
DS-LI31	1000A Direct Handle
D5 LAU 01	1N/O + 1N/C Auxillary for all sizes
D5 LAU 02	2N/O + 2N/C Auxillary for all sizes

Terminal Shrouds for 40A to 160A Switches Not Required as Touch Proof Terminals Terminal Shrouds, Order 1 set for Input and 1 Set for Output Red & Yellow handles also available

CEC Series AC



The new compact efficient changeover switches

Compact size

Small footprint in order to occupy a reduced space

High electrical performance

Maximized electrical & mechanical life

Reduction of the installation costs

Bridging links are not required
All mounting positions are possible
Cage terminal available for 60 & 80 A
Common output from the up

A pure changeover

Integrated design
Innovative single mechanism for COS function

Neutral pole early make & late break

High safety level
100% neutral rating

Modular design

3P version is smaller than 3P+N

Built for Generators

Changeover Switches For 63 - 125 Amp CEC Series

Product Code	Description	Poles	Amps
CEC00633NS0	Compact changeover switch, lug connection	Configuration 3P+N	63
CEC00803NS0	Compact changeover switch, lug connection	Configuration 3P+N	80
CEC01003NS0	Compact changeover switch, lug connection	Configuration 3P+N	100
CEC01253NS0	Compact changeover switch, lug connection	Configuration 3P+N	125

Accessories

External Handle

Direct Handle

Extended shafts options for External Handle

Auxiliary Contacts

Phase Barriers

Product Code	Description	Poles
DC ELAB1	External Handle	-
D5LSI01	Direct Handle	-
DS-EP04 (L: 250mm)	Accessories: Shaft Extension only	-
DS-EP05 (L: 387mm)	Accessories: Shaft Extension only	-
DC EAUB1	Auxiliary Contacts 1NO + 1N/C	-
DC ECUB2	Phase barriers	3P+N

Changeover Switches (AC)



A changeover switch (AC) transfers power between two sources, ensuring uninterrupted supply during outages or maintenance. Common in homes and industries, it switches between the main grid and backup power, enhancing safety and continuity. Available in manual or automatic models, it protects circuits from overloa.

- Available from 40 Amp to 3150 Amp, please enquire
- IP65 Pad lockable Handle
- 3-pole & Neutral (Fully rated 4th/Neutral Pole)
- Door Interlock and Shaft included with every Handle
- Conforms to IEC60947-3
- CCF Switches have Bridging links built in

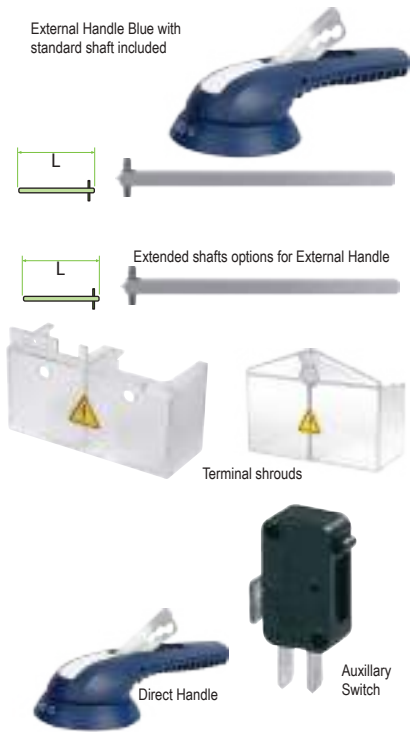
S5 3P+N Base Mount Changeover Switches



Product Code	Poles	Product Code	Poles	Amperage AC21
S5F01253NS0	4	S5F01253PS0	3	125 Amp
S5F01603NS0	4	S5F01603PB0	3	160 Amp
CCF02003NS0	4	CCF02003PS0	3	200 Amp
CCF02503NS0	4	CCF02503PS0	3	250 Amp
CCF03153NS0	4	CCF03153PS0	3	315 Amp
CCF04003NS0	4	CCF04003PS0	3	400 Amp
CCF06303NS0	4	CCF06303PS0	3	630 Amp
CCF08003NS0	4	CCF08003PS0	3	800 Amp
CCF10003NS0	4	CCF10003PS0	3	1000 Amp
CCF12503NS0	4	CCF12503PS0	3	1250 Amp
S5F16003PS0	4	S5F16003NS0	3	1600 Amp

Available up to 3150 Amp. | Terminal Shrouds for 40A to 160A Switches. | Not Required as Touch Proof Terminals.* Terminal Shrouds, Order 2 Input Shrouds and 1 Output Shrouds per switch. | For larger switches please enquire.

Accessories



Product Code	Amperage AC21
D5LLA01	125-160A Door interlock handle & 177mm shaft
DC CLA11	200-400A Door interlock handle & 227mm shaft
DC CLA21	500-800A Door interlock handle & 195mm shaft
DC CLA31	1000-1250A Door interlock handle & 186mm shaft
D5LLA31	1600A Door interlock handle& 186mm shaft
DS-EP05	125-160A extension shaft L:387mm
DS-EP14	200-400A extension shaft L:375mm
DS-EP23	500-1250A extension shaft L:345mm
DM2CU13	200A-400A Input Terminal Shroud
DM2CU23	630A-800A Input Terminal Shroud
DM2CU33	1000A Input Terminal Shroud
DC CCU12	200A-400A Output Terminal Shroud
DC CCU22	630A-800A Output Terminal Shroud
DC CCU32	1000A Output Terminal Shroud
D5LSI01	125A-200A Direct Handle
DC CLI11	200A-400A Direct Handle
DC CLI21	500A-800A Direct Handle
DC CLI31	1000A Direct Handle
D5LU32	1600A Direct Handle (for S5F switch)
D5LAU01	Auxiliary contacts 1N/O+1N/C
D5LAU02	Auxiliary contacts 2N/O+2N/C

UM-C Motorized Base Mount Switches (AC)



Product Code	Voltage	Range
UM-C1A230Z	230V AC	200A-400A
UM-C2A230Z	230V AC	500A-800A
UM-C31230M	230V AC	1000A-1250A

*Works with S5 changeover switches.

ATS SERIES: Automatic Transfer Switch

telergon

An automatic transfer switch (ATS) is an autonomous device that seamlessly shifts the power supply from the main source to a backup source in the event of a power outage or disruption. It continuously monitors the power supply, detecting any interruptions or irregularities, and activates the backup source automatically, eliminating the need for manual intervention. The primary objective of an ATS is to maintain an uninterrupted power supply for critical systems.

- No maintenance required
- Superior electrical and mechanical reliability
- Simple installation and user-friendly operation
- Rapid make-and-break switching mechanism
- Excellent short-circuit withstand capability

C1 SERIES | 63A – 630A (Remote operation and Automatic transfer switch)



Remote Operation Product Code	Automatic Transfer Product Code	Amperage	Connection Pole	Size	Display Only Product Code
C1-00633NSMGB	C1-00633NSMCB	63 Amp	3P+N	00	DC 1DP01* ¹
C1-00803NSMGB	C1-00803NSMCB	80 Amp	3P+N	00	DC 1DP01* ¹
C1-01003NSMGB	C1-01003NSMCB	100 Amp	3P+N	00	DC 1DP01* ¹
C1-01253NSMGB	C1-01253NSMCB	125 Amp	3P+N	0	DC 1DP01* ¹
C1-01603NSMGB	C1-01603NSMCB	160 Amp	3P+N	0	DC 1DP01* ¹
C1-02503NSMGB	C1-02503PSMCB	250 Amp	3P+N	1	DC 1DP01* ¹
C1-04003NSMGB	C1-04003NSMCB	400 Amp	3P+N	2	DC 1DP01* ¹
C1-06303NSMGB	C1-06303NSMCB	630 Amp	3P+N	2	DC 1DP01* ¹

¹ Display available only for Automatic Transfer Product Code | *Works with S5 changeover switches.

C2 SERIES | 63A – 630A (Automatic and programmable)



Product Code* ¹	Amperage	Poles	Product Code	Type	Product Code	Type
C2-00633NBDDT	63 Amp	3P+N	-		DC 1DP01* ¹	Display
C2-00803NBDDT	80 Amp	3P+N	-		DC 1DP01* ¹	Display
C2-01003NTDDT	100 Amp	3P+N	DC 2CU01	Shrouds	DC 1DP01* ¹	Display
C2-01253NTDDT	125 Amp	3P+N	DC 2CU01	Shrouds	DC 1DP01* ¹	Display
C2-01603NTDDT	160 Amp	3P+N	DC 2CU11	Shrouds	DC 1DP01* ¹	Display
C2-02503NTDDT	250 Amp	3P+N	DC 2CU11	Shrouds	DC 1DP01* ¹	Display
C2-04003NTDDT	400 Amp	3P+N	DC 2CU21	Shrouds	DC 1DP01* ¹	Display
C2-06303NTDDT	630 Amp	3P+N	DC 2CU21	Shrouds	DC 1DP01* ¹	Display

*¹ Automatic and programmable | *Works with S5 changeover switches.

S5B 3P+N Bypass Changeover Switches I-O-II



Product Code	Amperage	Poles
S5B01253NS0	125 Amp	3P+N
S5B01603NS0	160 Amp	3P+N
S5B02003NS0	200 Amp	3P+N
S5B02503NR0	250 Amp	3P+N
S5B03153NR0	315 Amp	3P+N
S5B04003NC0	400 Amp	3P+N
S5B06303NR0	630 Amp	3P+N

S5B Accessories



Product Code	Amperage AC21
D5LSI02	125A–200A Direct Handle
D5LLI12	250A–400A Direct Handle
D5LLI22	500A–630A Direct Handle
D5LLA01	125A–200A External Handle, including shaft L:177mm
D5LLA11	250A–400A External Handle, including shaft L:277mm
D5LLA21	500A–630A External Handle, including shaft L:239mm
DS-AU11	Auxiliary Contacts 1NO / 1NC 125A-630A
DS-AU12	Auxiliary Contacts 2NO / 2NC 125A-630A
DS-CU04	125-160A Terminal Shrouds
DS-CU07	200A Terminal shrouds
DS-CU11	250A-400A Terminal Shroud
DS-CU21	500A-800A Terminal Shroud

Switch Disconnectors Din Rail Mounting Modular Padlockable Handle



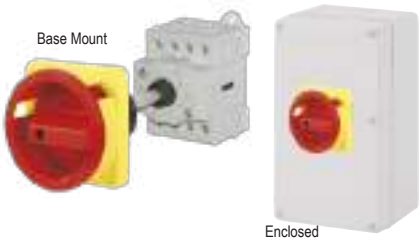
Product Code	Amps	Description
ZBK20SMAHN1A3	20	On-off switch DIN rail mounting modular padlock-able handle IP40, 3-pole
ZBK25SMAHN1A3	25	On-off switch DIN rail mounting modular padlock-able handle IP40, 3-pole
ZBK40SMAHN1A3	40	On-off switch DIN rail mounting modular padlock-able handle IP40, 3-pole
ZBK63SMAHN1A3	63	On-off switch DIN rail mounting modular padlock-able handle IP40, 3-pole
ZBK80SMAHN1A3	80	On-off switch DIN rail mounting modular padlock-able handle IP40, 3-pole
ZBK125SMAHN1A3	125	On-off switch DIN rail mounting modular padlock-able handle IP40, 3-pole

Panel Mount Ammeter + Voltmeter Switch



Product Code	Amps	Description
T-0002000733C1N1	25	22mm panel mount ammeter cam switch
T-0002000701C1N1	25	22mm panel mount 3 phase voltmeter cam switch

Switch Disconnectors | 8-Pole



Base Mount		Enclosed	
Product Code	Description	Product Code	Description
ZBK25VZVHN4A8	Base mount/rear mount switch disconnector, padlockable handle, IP66, 25 Amps, 8-pole	ZBK25PFLHN4A8	Enclosed switch disconnector, padlockable handle, IP65, 25 Amps, 8-pole
ZBK40VZVHN4A8	Base mount/rear mount switch disconnector, padlockable handle, IP66, 40 Amps, 8-pole	ZBK40PFLHN4A8	Enclosed switch disconnector, padlockable handle, IP65, 40 Amps, 8-pole
ZBK80VZVHN4A8	Base mount/rear mount switch disconnector, padlockable handle, IP66, 80 Amps, 8-pole	ZBK80PFLHN4A8	Enclosed switch disconnector, padlockable handle, IP65, 80 Amps, 8-pole

Accessories For 8-Pole Switches



Product Code	Description
ZBKLH11	Auxiliary 1N/O + 1N/C
ZBKN40V	Neutral for 25-40 Amps switch disconnector, 8-pole
ZBKN80V	Neutral for 80 Amps 8-pole switch disconnector

MCS-G2 Microgrid Controller

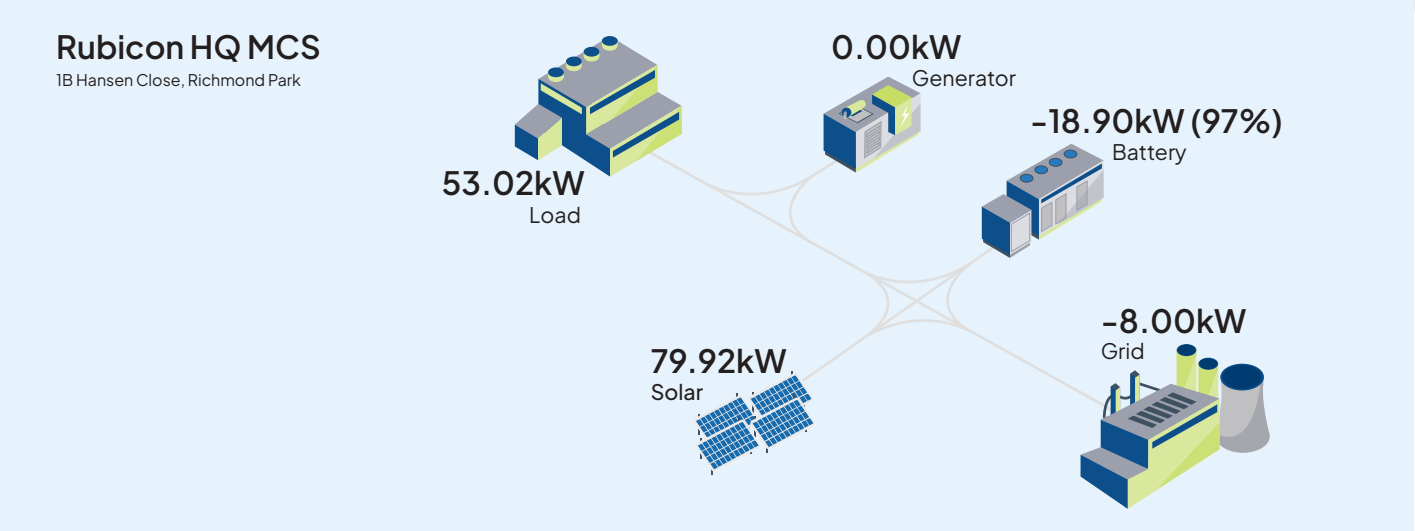


The APEX MCS G2 Microgrid Controller enables advanced power management for on-grid and off-grid systems, providing coordinated control of PV inverters, gensets, batteries, and loads. With flexible configuration, robust communication protocols, and OEM compatibility, it delivers reliable, efficient, and scalable microgrid performance. Intelligent features—including Self-Commissioning, Logic Builder, String Monitoring, Push Notifications via IM platforms (Telegram, Slack), and Predictive Intelligence with Machine Learning—support automated operation for medium and large-scale utility solar plants.

Technical Specifications

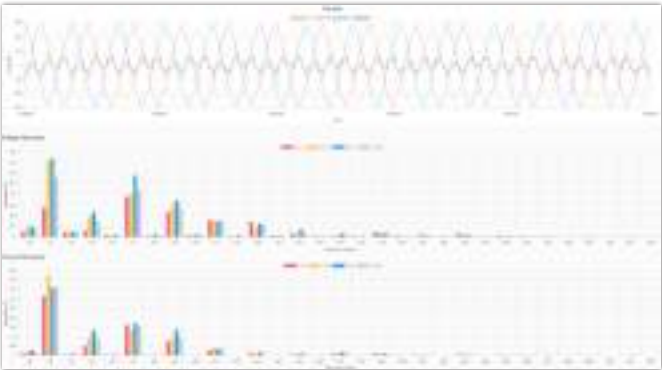
Product Code	Nvidia processor	Mounting Method	Power Supply	Voltage Inputs	Current Inputs	Digital Inputs	Digital Outputs	Communications	Remote Monitoring
FG-MG-G2-1	Ram 8GB, 6-core ARM CPU, 76 TOPS	DIN rail & keyhole	230V AC 50 Hz & 12–19V DC	3 × V AC (330V AC max.)	3× Iac (5.8 Aac max.)	2 config. inputs	2 outputs (5A NO / 3A NC, 250V AC / 30V DC)	TCP/IP Ethernet, Modbus over RS485	APEX Fleet Portal integration
Dimensions 150 × 125 × 60mm									

Compatible Equipment	Compatible Products
Generator Controllers*	Deepsea 8610, ComAp Inteligen
PV Inverters*	Huawei, Goodwe, Solis, SMA, Sungrow, Ingeteam, Schneider, Deye, Sunsynk
Battery Inverters (PCSs)*	ATESS PCS series, WECO Hybo series
3rd Party Controllers*	Meteocontrol Bluelog, Solar-Log
Power Meters*	Lovato DMG110, Schneider PM3255, Socomec Diris A10, Janitza UMG104
*Other types on request.	



Power Quality Harmonics & Amps Graph:

Power Quality RMS Values Graph:



Visual representation of current levels and harmonic distortion, providing insight into system efficiency, load behaviour, and compliance with power quality standards.

Visual representation of root mean square voltage and current levels, showing stability, load performance, and overall system power quality.



Licenses

DNP3 Control (CoCT only)			
Product Code	Operation License	Comment	Payment Structure
LI-G2-DNP3-HYB	DNP3 Control	DNP3 License (PV & Hybrid). CoCT DNP3 Protocol comms for Hybrid sites 100kW+	MCS Hardware License (Once Off)

BESS Integration			
Product Code	Operation License	Comment	Payment Structure
LI-G2-BAT-LITE	BESS Integration	Battery Lite license PV/Genset/BESS (≤ 200kW AC). Includes PV / Genset control	MCS Hardware License (Once Off)
LI-G2-BAT-STAND	BESS Integration	Battery Standard license PV/Genset/BESS (201kW – 600kW AC)	MCS Hardware License (Once Off)
LI-G2-BAT-PREM	BESS Integration	Battery Premium license PV/Genset/BESS (601kW – 1MW AC)	MCS Hardware License (Once Off)
If the plant is in CoCT, DNP3 license is issued free of charge with above licenses Includes PV / Genset control			

PV / Generator Integration			
Product Code	Operation License	Comment	Payment Structure
LI-G2-PVGEN-LITE	PV / Generator Integration	PV/Genset Lite license (≤ 200kW AC)	MCS Hardware License (Once Off)
LI-G2-PVGEN-STAND	PV / Generator Integration	PV/Genset Standard license (201kW – 600kW AC)	MCS Hardware License (Once Off)
LI-G2-PVGEN-PREMIUM	PV / Generator Integration	PV/Genset Premium license (601kW – 1MW AC)	MCS Hardware License (Once Off)
If the plant is in CoCT, DNP3 license is issued free of charge with above licenses			

EV Charger Integration			
Product Code	Operation License	Comment	Payment Structure
LI-G2-EV-AC	EV Charger Integration	EV Charger management AC Charging Control (Per Device, 1kW – 22kW)	MCS Hardware License (Once Off)
LI-G2-EV-DC	EV Charger Integration	EV Charger management DC Charging Control (Per Device, 25kW – 150kW)	MCS Hardware License (Once Off)

Special Licenses			
Product Code	Operation License	Comment	Payment Structure
LI-G2-SLR	Special Licenses	Smart Load resumption (per end point) – Software Key	MCS Hardware License (Once Off)
LI-G2-ILM	Special Licenses	Intelligent Load Management (per end point) – Software Key	MCS Hardware License (Once Off)
LI-G2-MVA	Special Licenses	Device Emulation (used with meter aggregation) – Software Key	MCS Hardware License (Once Off)
LI-MG-PQ	Special Licenses	Power quality measurement – Software Key	MCS Hardware License (Once Off)
FG-SS-UG1	On-Site Support	On-site installation assistance of MCS system and comms. Base rate (excl. travel & accommodation).	Additional service (per day)
FG-SS-UG2	Site Software Major Update	Update to existing plant (Major bespoke software changes)	Additional service (Base rate)

Warranty Extensions

Product Code	Operation License / Device	Comment	Compatibility
WE-MG-G2	MCS G2 Controller	5-year extension	APEX Gen 2 MCS
WE-H2-00	SGS Controller	3-year extension	APEX SGS



Edge Device

The APEX Edge Device is a versatile monitoring unit designed for PV inverters, energy meters, and batteries. It integrates seamlessly with APEX MCS microgrid controllers, providing remote management, data logging, and actuator control. The device supports multiple serial interfaces and cloud connectivity, allowing flexible deployment for intelligent load management, field metering, and state sensing.

Key Features

- Monitor, energy meters, and batteries via RS-232, RS-485, CAN Bus, and USB
- Remote data logging to Apex Cloud and SD card for on-board data storage (up to 64 GB)
- Flexible connectivity options: Wi-Fi, Ethernet, LTE (optional), Bluetooth
- Acts as a field extension module for MCS microgrid controllers, supporting additional I/O and actuators

Technical Specifications

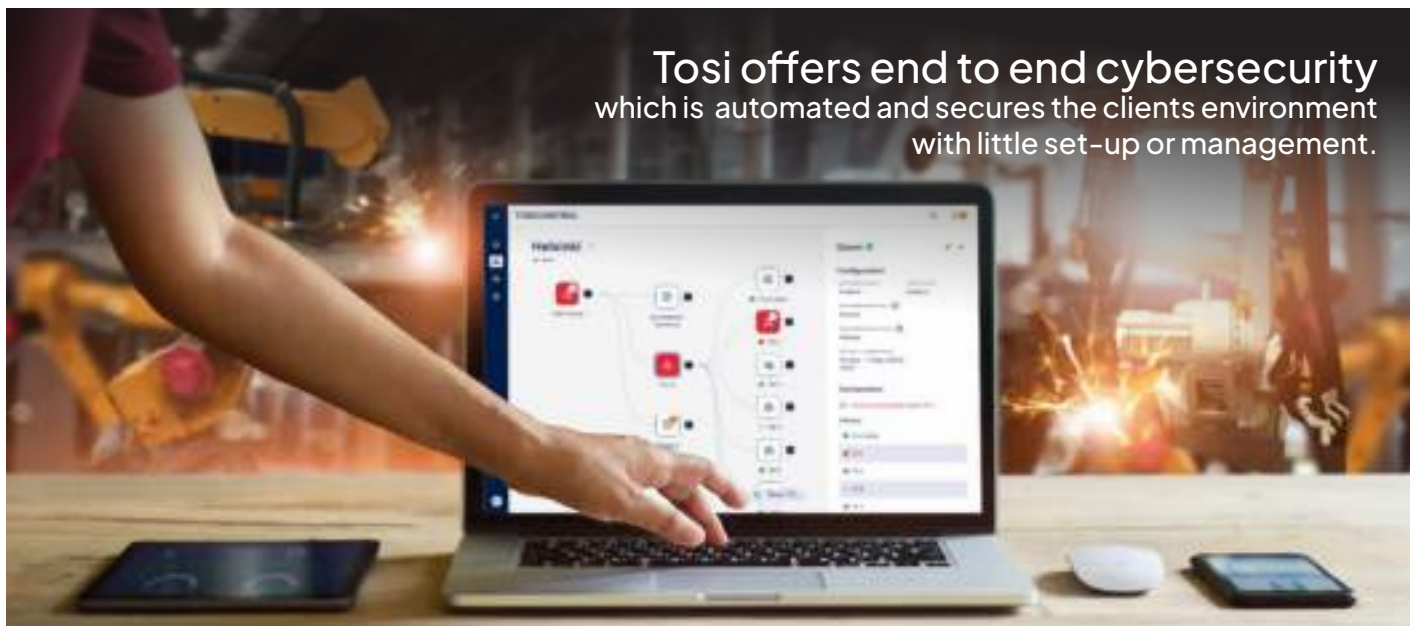
Product Code	FG-ED-00	Ingress Protection	IP20
Field Serial Interfaces	1x RS232, 1x RS485, 1x CAN Bus, Modbus TCP (via Ethernet)	Storage	SD Card up to 64 GB, FAT32
Cloud Interfaces	Wi-Fi, Ethernet, LTE (optional), LoRa (optional)	Firmware Updates	Local or remote
Other Interfaces	Bluetooth, USB (Type A & C)	Slave Devices	Contact for latest list
Digital Outputs	2x dry contact, change-over (5A, 250V AC / 30V DC)	Digital Output Rating	5A, 250V AC / 30V DC
Digital Inputs	2x digital	Supported	Ethernet, Bluetooth, USB Type A & C
Power Supply	12–60V DC	Mounting Method	Surface mounted
Max Input Current	1.25A	Dimensions (LxWxH, excl. connectors)	122 x 124 x 28mm

Indicators

Red - Solid	Device Powered on, no connections	Blue - Solid	Connected to at least one slave device, no server
Green - Solid	Connected to server, no slaves	Green / Blue alt.	Server and at least one slave device connected



Tosi offers end to end cybersecurity
which is automated and secures the clients environment
with little set-up or management.



Tosi Platform

The Tosi Platform simplifies OT infrastructure by addressing cost, complexity, and cybersecurity. It offers a scalable, automated cybersecurity framework for networks ranging from single devices to enterprise-level systems, connecting thousands of users, devices, and sites.

With modular, compatible components, the platform is internet, operator, and device agnostic, supporting IoT devices and legacy systems on internal and external networks. It enables centralised access management without software installation or complex configurations, ensuring secure, seamless, and flexible operations.

Tosi® Node

This is an out the box cybersecurity device with Firewall, access control, VPN, Encryption, TLS/SSL and IT/OT segmentation. Can be used on any internet connection type. (Model dependant.) Start your remote access journey with securing the edge, or build you own private network when combined with the HUB.

Tosi® HUB

Simplifying the convergence of networks, the HUB creates a mesh of connections between assets, users and application. This can then be user on premised or in a private/public cloud. Link you favourite database and application software and the infrastructure is instant and secured from edge to cloud/server. Manage access groups, log reports, segmentation, security and IP access to every asset on the network.

Tosi® Node

Adding additional value to the existing Tosi infrastructure, organisations can now take advantage of Network Detection and Response feature layered ontop of the OT network, giving full insight into performance, anomalies, asset insight and optimisation. This needs to be combined with the HUB.

Tosi® Key

Available in hardware, software and App, the key is designed to authenticate the user on the other end whilst handling MFA and security/trust. Users can then access as many nodes as needed int heir architecture.

TosiControl

Simplifying your network, the sites and users connected aswell as associated licenses and firmware versions. Now you can also start associated IT based rules on who the actual user is and not just the key number.



Easily.

The innovative Plug & Go connectivity solution gets you set up and operational within minutes.



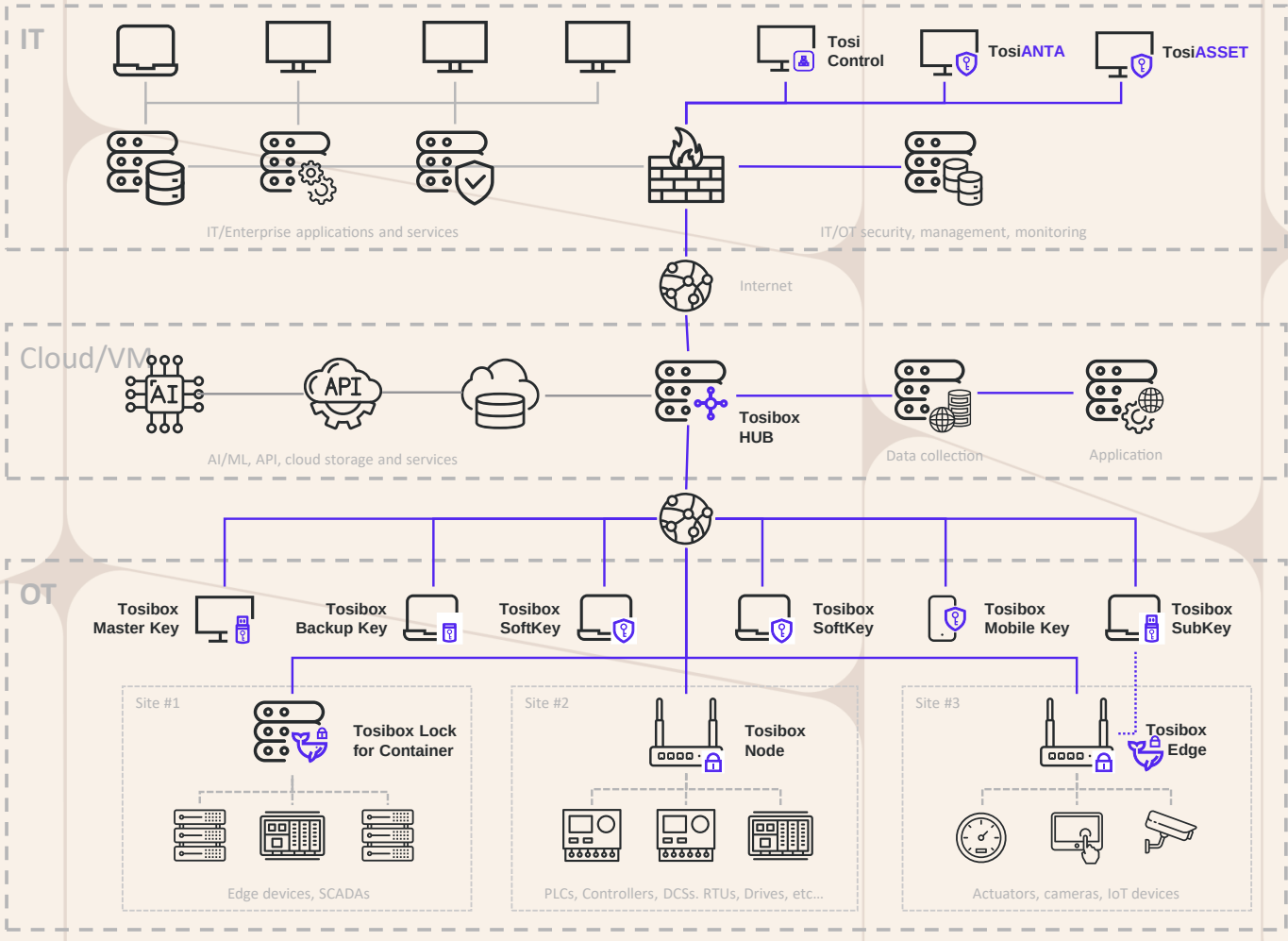
Automatically.

Systems that automate connectivity, firewalls, updates, recoveries, and authentication.



Securely.

Secure VPN with multi-factor authentication, encryption, and automated firewall.



Tosi Technical Information

	Product Code	Description
 	Admin Key	
	TBK2	TOSI Key
	Tosibox Nodes – 100 Series	
	TBL175	TOSI® 175, 4 years maintenance
	Tosi Nodes – 300 Series	
	TBL350	TOSI® 350, 4 years maintenance
	TBL375	TOSI® 375, 4 years maintenance
	Tosi Nodes – 600 Series	
	TBL610EU	TOSI® 610 with EU power source, 4 years maintenance
	TBL675EU	TOSI® 675 with EU power source, 4 years maintenance
	TBL695EU	TOSI® 695 (5G)with EU power source, 4 years maintenance
	Tosi Users	
	TBPS	TOSI® PLATFORM S, Customer hosted on Virtual machine License (3 year)
	TBPSH	TOSI® PLATFORM S, Hosted on Virtual machine License (3 year)
	TBLFC2	TOSI® LOCK FOR CONTAINER License (1 year)
	TBSKL1	TOSI® SOFTKEY License 1 user
	TBSKL5	TOSI® SOFTKEY License 5 user
	TBSKL10	TOSI® SOFTKEY License 10 user
	TBMC1	TOSI® MOBILE CLIENT 1 user
	TBMC5	TOSI® MOBILE CLIENT 5 user
	TBMC10	TOSI® MOBILE CLIENT 10 user
	TBANT1	Antenna, external with 8m cable
	TBANT2	Antenna, external, magnet mount with 3m cable



Heavy Duty Multipole Connectors

The HARTING Technology Group is skilled in the fields of electrical, electronic and optical connection, transmission and networking, as well as in manufacturing, mecha- tronics and software creation. The Group uses these skills to develop customised solutions and products such as connectors for energy and data transmission applica- tions including, for example, mechanical engineering, rail technology, wind energy plants, factory automation and the telecommunications sector. HARTING also produces electromagnetic components for the automotive industry, and is a specialist in industrial applications in the form of enclosures, housings, cabling and/or the assembly of individual or complete systems, as well as automated vending systems.

4-pin Plugs | Size = HAN 3A

 Hood Straight  Hood Lateral 90°  Panel Mount Base (no cover)  Panel Mount Base with cover	 Surface Mount (Angled) Base  Bulkhead Housing 90°  Male Insert  Female Insert	Product Code	Description	Size
		19200031440	4-pin Straight lateral, M20 (hood)	3A
		19200031640	4-pin Hood Lateral, M20 (90° hood)	3A
		09200030301	4-pin panel mount base with no cover	3A
		09200030306	4-pin panel mount base with cover	3A
		19200031250	4-pin surface mount base, M20 (Angled)	3A
		09200030801	4-pin bulkhead housing (90° Angled no gland)	3A
		09200032611	4-pin male insert (screw)	3A
		09200032711	4-pin female insert (screw)	3A

5-pin Plugs | Size = HAN 3A

 Hood Straight  Hood Lateral 90°  Panel Mount Base (no cover)  Panel Mount Base with cover	 Surface Mount (Angled) Base  Bulkhead Housing 90°  Male Insert  Female Insert	Product Code	Description	Size
		19200031440	5-pin hood straight, M20 (hood)	3A
		19200031640	5-pin hood lateral, M20 (90° hood)	3A
		09200030301	5-pin panel mount base, No cover	3A
		09200030306	5-pin panel mount base with cover	3A
		19200031250	5-pin surface mount base, M20 (Angled)	3A
		0920 0030801	5-pin bulkhead housing (90° Angled, no gland)	3A
		09200042611	5-pin male insert (screw)	3A
		09200042711	5-pin female insert (screw)	3A

Inserts Crimped Han D®

 09210073031  09210073131	Product Code	Insert	No. of Contacts	Identification of contacts	Wire Gauge	Termination	Size
	09210073031	Male	7+	1–7	0.14–2.5mm²	Crimp Terminal	HAN 3A
	09210073131	Female	7+	1–7	0.14–2.5mm²	Crimp Terminal	HAN 3A
Pins ordered separately. Please refer to the Pins & Sockets table.							

6-pin Plugs | Size = HAN 6B

 19300061540  19300061440  09300060301  09300060318	 19300061250  19300062255  09330062601  09330062701	Product Code	Description	Size
		19300061540	6-pin hood, single clip, side entry, M20 (90°)	6B
		19300061440	6-pin hood, single clip, top entry, M20	6B
		09300060301	6-pin panel mount base, single clip	6B
		09300060318	6-pin panel mount base, single clip with cover	6B
		19300061250	6-pin surface mount base, single clip, M20	6B
		19300062255	6-pin surface mount base, single clip, with cover, M20	6B
		09330062601	6-pin male insert (screw)	6B
		09330062701	6-pin female insert (screw)	6B

10-pin Plugs | Size = HAN 10B

 19300101520  19300101420  19300101230  09330102601  09330102701  09300105407	Product Code	Description	Size
	19300101520	10-pin hood, double clip, side entry, M20	10B
	19300101420	10-pin hood, double clip, top entry, M20	10B
	09300100301	10-pin panel mount base, double clip	10B
	19300101230	10-pin surface mount base, double clip, M20	10B
	09330102601	10-pin male insert (screw)	10B
	09330102701	10-pin female insert (screw)	10B
	09300105407	Plastic cover for base (only cover)	-



16-pin Plugs | Size = HAN 16B

  			Product Code	Description	Size
19300161521			19300161521	16-pin hood, double clip, side entry, M25	16B
19300161421			19300161421	16-pin hood, double clip, top entry, M25	16B
09300160301			09300160301	16-pin panel mount base, double clip	16B
  			19300161231	16-pin surface mount base, double clip, M25	16B
09330162601			09330162601	16-pin male insert (screw)	16B
09330162701			09330162701	16-pin female insert (screw)	16B

24-pin Plugs | Size = HAN 24B

   				Product Code	Description	Size
19300241521				19300241521	24-pin hood, double clip, side entry, M25	24B
19300241422				19300241422	24-pin hood, double clip, top entry, M25	24B
09300240301 + 09300245425				09300240301	24-pin panel mount base, double clip	24B
19300241231				09300240301 + 09300245425	24-pin panel mount base, double clip with cover	24B
  				19300241231	24-pin surface mount base, double clip, M25	24B
09330242601				19300241231 + 09300245425	24-pin surface mount base, double clip with cover, M25	24B
09330242701				09330242601	24-pin male insert (screw)	24B
				09330242701	24-pin female insert (screw)	24B

32-pin Plugs | Size = HAN 32B

   				Product Code	Description	Size
19300320528				19300320528	32-pin hood side entry, double clip M40	32B
19300320428				19300320428	32-pin hood top entry, double clip M40	32B
09300320301				09300320301	32-pin base panel, double clip	32B
09300320273				19300320273	32-pin Surface mounted base, double clip M40	32B
  				09300325425	32-pin protect cover die cast for bases (Metal)	32B
  				09330162601	16-pin male insert (1–16) Screw	16B
  				09330162611	16-pin male insert (17–32) Screw	16B
09330162701				09330162701	16-pin female insert (1–16) Screw	16B
09330162711				09330162711	16-pin female insert (17–32) Screw	16B

48-pin Plugs | Size = HAN 48B

   				Product Code	Description	Size
19300480548				19300480548	48-pin hood, single clip, side entry, M40 (90°)	48B
19300480448				19300480448	48-pin hood, single clip, top entry, M40	48B
09 30 048 0317				09300480317	48-pin panel mount base, single clip with cover	48B
19300480293				19300480293	48-pin surface mount base, single clip, M40	48B
  				19300480298	48-pin surface mount base single clip, with cover, M40	48B
09330242601				09330242601	24-pin male insert (1–24) (screw)	24B
09330242701				09330242701	24-pin female insert (1–24) (screw)	24B
 				09330242611	24-pin male insert (25–48) (screw)	24B
09330242711				09330242711	24-pin female insert (25–48) (screw)	24B



Inserts Crimped Han DD® (Male)

	Product Code	Insert	No. of Contacts	Identification of contacts	Wire Gauge	Termination	Size
	09160243001	Male	24+	1–24	0.14–2.5mm ²	Crimp Terminal	6B
	09160423001	Male	42+	1–42	0.14–2.5mm ²	Crimp Terminal	10B
	09160723001	Male	72+	1–72	0.14–2.5mm ²	Crimp Terminal	16B
	09161083001	Male	108+	1– 108	0.14–2.5mm ²	Crimp Terminal	24B
	09160723001	Male	144+	1–72	0.14–2.5mm ²	Crimp Terminal	16B *
	09160723011	Male	144+	73–144	0.14–2.5mm ²	Crimp Terminal	16B *
	09161083001	Male	216+	1–108	0.14–2.5mm ²	Crimp Terminal	24B **
	09161083011	Male	216+	109–216	0.14–2.5mm ²	Crimp Terminal	24B **
*09160723001 order with 09160723011 you will get 144+ no. of contacts. **09161083001 order with 09161083011 you will get 216+ no. of contacts. Pins ordered separately.							

Inserts Crimped Han DD® (Female)

	Product Code	Insert	No. of Contacts	Identification of contacts	Wire Gauge	Termination	Size
	09160243101	Female	24+	1–24	0.14–2.5mm ²	Crimp Terminal	6B
	09160423101	Female	42+	1–42	0.14–2.5mm ²	Crimp Terminal	10B
	09160723101	Female	72+	1–72	0.14–2.5mm ²	Crimp Terminal	16B
	09161083101	Female	108+	1–108	0.14–2.5mm ²	Crimp Terminal	24B
	09160723101	Female	144+	1–72	0.14–2.5mm ²	Crimp Terminal	16B *
	09160723111	Female	144+	73–144	0.14–2.5mm ²	Crimp Terminal	16B *
	09161083101	Female	216+	1–108	0.14–2.5mm ²	Crimp Terminal	24B **
	09161083111	Female	216+	73–144	0.14–2.5mm ²	Crimp Terminal	24B **
*09160723101 order with 09160723111 you will get 144+ no. of contacts. **09161083101 order with 09161083111 you will get 216+ no. of contacts. Pins ordered separately.							

Pins & Sockets

10 A - Han D Male Pins only

	Product Code	Wire Gauge (AWG)	Material
	09150006104	0.14–0.37mm ²	Silver Plated
	09150006103	0.5mm ²	Silver Plated
	09150006105	0.75mm ²	Silver Plated
	09150006102	1mm ²	Silver Plated
	09150006101	1.5mm ²	Silver Plated
	09150006106	2.5mm ²	Silver Plated

10 A - Han D Female Socket Pins only

	Product Code	Wire Gauge (AWG)	Material
	09150006204	0.14–0.37mm ²	Silver Plated
	09150006203	0.5mm ²	Silver Plated
	09150006205	0.75mm ²	Silver Plated
	09150006202	1mm ²	Silver Plated
	09150006201	1.5mm ²	Silver Plated
	09150006206	2.5mm ²	Silver Plated

Harting Style Crimper (Economy)



	Product Code	Description
	CB-A0540HX	Crimper for HAN pins (0.14–4mm), for HAN-E, HAN-D, HAN-C pins
	CB-HT-0525TX	Crimper for HAN D, 4-pin (0.14–2.5mm)

Crimper

	Product Code	Description
	CB-M22520/1-01 (W2A)	Harting Style Crimper (0.22–4mm) HAN-D pins
	09990000012	Removal tool, HAN D

A-Series Feed Through Terminals



TYPE A2C



TYPE A3C



TYPE A4C

A-Series Push In Technology Terminals

Product Code	Description
1552790000	1.5mm² Feed-through terminal, PUSH IN, 500V, 17.5A, Dark Beige, A2C
1552740000	1.5mm² Feed-through terminal, PUSH IN, 500V, 17.5A, Dark Beige, A3C
1552690000	1.5mm² Feed-through terminal, PUSH IN, 500V, 17.5A, Dark Beige, A4C
1521850000	2.5mm² Feed-through terminal, PUSH IN, 800V, 24A, Dark Beige, A2C
1521740000	2.5mm² Feed-through terminal, PUSH IN, 800V, 24A, Dark Beige, A3C
1521690000	2.5mm² Feed-through terminal, PUSH IN, 800V, 24A, Dark Beige, A4C
2051180000	4mm² Feed-through terminal, PUSH IN, 800V, 32A, Dark Beige, A2C
2051240000	4mm² Feed-through terminal, PUSH IN, 800V, 32A, Dark Beige, A3C
2051500000	4mm² Feed-through terminal, PUSH IN, 800V, 32A, Dark Beige, A4C
1992110000	6mm² Feed-through terminal, PUSH IN, 800V, 41A, Dark Beige, A2C
1991820000	6mm² Feed-through terminal, PUSH IN, 800V, 41A, Dark Beige, A3C
1991780000	6mm² Feed-through terminal, PUSH IN, 800V, 41A, Dark Beige, A4C (no end plate required)
2490360000	10mm² Feed-through terminal, PUSH IN, 1000V, 57A, Dark Beige, A2C
2490520000	10mm² Feed-through terminal, PUSH IN, 1000V, 57A, Dark Beige, A3C
2494000000	16mm² Feed-through terminal, PUSH IN, 1000V, 76A, Dark Beige, A2C
2494090000	16mm² Feed-through terminal, PUSH IN, 1000V, 76A, Dark Beige, A3C
2551510000	35mm² Feed-through terminal, PUSH IN, 1000V, 125A, Dark Beige, A2C (No end plate needed)

A-Series Earth Terminal Blocks

Product Code	Description
1552680000	1.5mm² PE terminal, PUSH IN, Green/Yellow, 500V, Clamping Range 0.14 / 1.5mm², A2C
1552670000	1.5mm² PE terminal, PUSH IN, Green/Yellow, 500V, Clamping Range 0.14 / 1.5mm², A3C
1552660000	1.5mm² PE terminal, PUSH IN, Green/Yellow, 500V, Clamping Range 0.14 / 1.5mm², A4C
1521680000	2.5mm² PE terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.14 / 2.5mm², A2C
1521670000	2.5mm² PE terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.14 / 2.5mm², A3C
1521540000	2.5mm² PE terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.14 / 2.5mm², A4C
2051360000	4mm² PE terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.5 / 4mm², A2C
2051410000	4mm² PE terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.5 / 4mm², A3C
2051560000	4mm² PE terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.5 / 4mm², A4C
1991810000	6mm² PE terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.5 / 6mm², A2C
1991850000	6mm² PE terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.5 / 6mm², A3C
2490440000	10mm² PE terminal, PUSH IN, Green/Yellow, 1000V, Clamping Range 0.5 / 10mm², A2C
2490590000	10mm² PE terminal, PUSH IN, Green/Yellow, 1000V, Clamping Range 0.5 / 10mm², A3C
2494010000	16mm² PE terminal, PUSH IN, Green/Yellow, 1000V, Clamping Range 0.5 / 16mm², A2C
2494020000	16mm² PE terminal, PUSH IN, Green/Yellow, 1000V, Clamping Range 0.5 / 16mm², A3C
2551520000	35mm² PE terminal, PUSH IN, Green/Yellow, 1000V, Clamping Range 2.5 / 35mm², A2C



TYPE A2C

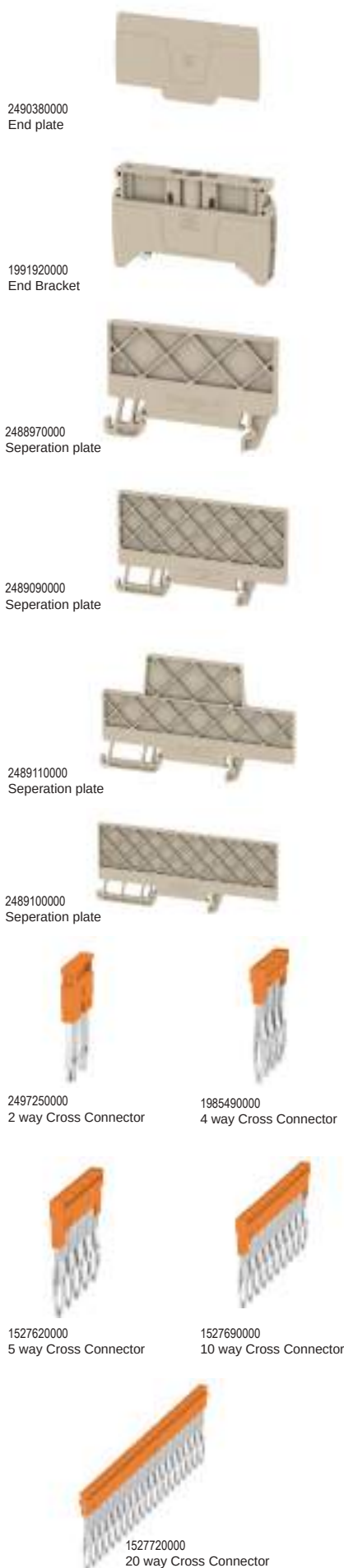


TYPE A3C



TYPE A4C

A-Series Feed Through Terminals



A-Series Terminal Accessories | Push In Technology Terminals

Product Code	Description
1552600000	A-Series End Plate for 1.5mm² Feed-through terminal, A2C, Dark Beige
1552620000	A-Series End Plate for 1.5mm² Feed-through terminal, A3C, Dark Beige
1552640000	A-Series End Plate for 1.5mm² Feed-through terminal, A4C, Dark Beige
1514400000	A-Series End Plate for 2.5mm² Feed-through terminal, A2C, Dark Beige
1521510000	A-Series End Plate for 2.5mm² Feed-through terminal, A3C, Dark Beige
1521530000	A-Series End Plate for 2.5mm² Feed-through terminal, A4C, Dark Beige
2051680000	A-Series End Plate for 4mm² Feed-through terminal, A2C, Dark Beige
2051720000	A-Series End Plate for 4mm² Feed-through terminal, A3C, Dark Beige
2051900000	A-Series End Plate for 4mm² Feed-through terminal, A4C, Dark Beige
1991970000	A-Series End Plate for 6mm² Feed-through terminal, A2C, Dark Beige
1991940000	A-Series End Plate for 6mm² Feed-through terminal, A3C, Dark Beige
2490380000	A-Series End Plate for 10 & 16mm² Feed-through terminal, A2C, Dark Beige
2490530000	A-Series End Plate for 10 & 16mm² Feed-through terminal, A3C, Dark Beige
1991920000	A-Series End Bracket / stop
2488970000	A-Series Separation Plate APP 1, W 2.5mm x H 52.6mm x D 36mm
2489090000	A-Series Separation Plate APP 2, W 2.5mm x H 75.51mm x D 45.15mm
2489100000	A-Series Separation Plate APP 3, W 2.5mm x H 104.2mm x D 45.15mm
2489110000	A-Series Separation Plate APP 4, W 2.5mm x H 89.15mm x D 54.85mm
1985410000	A-Series Cross Connect ZQV 1.5mm² 2 Way, Rated Current 17A
1985490000	A-Series Cross Connect ZQV 1.5mm² 4 Way, Rated Current 17A
1985500000	A-Series Cross Connect ZQV 1.5mm² 5 Way, Rated Current 17A
1985580000	A-Series Cross Connect ZQV 1.5mm² 10 Way, Rated Current 17A
1985600000	A-Series Cross Connect ZQV 1.5mm² 20 Way, Rated Current 17A
1527540000	A-Series Cross Connect ZQV 2.5mm² 2 Way, Rated current 24A
1527590000	A-Series Cross Connect ZQV 2.5mm² 4 Way, Rated current 24A
1527620000	A-Series Cross Connect ZQV 2.5mm² 5 Way, Rated current 24A
1527690000	A-Series Cross Connect ZQV 2.5mm² 10 Way, Rated current 24A
1527720000	A-Series Cross Connect ZQV 2.5mm² 20 Way, Rated current 24A
1527930000	A-Series Cross Connect ZQV 4mm² 2 Way, Rated current 32A
1527970000	A-Series Cross Connect ZQV 4mm² 4 Way, Rated current 32A
1527980000	A-Series Cross Connect ZQV 4mm² 5 Way, Rated current 32A
1528090000	A-Series Cross Connect ZQV 4mm² 10 Way, Rated current 32A
1985740000	A-Series Cross Connect ZQV 6mm² 2 Way, Rated current 41A
1985780000	A-Series Cross Connect ZQV 6mm² 4 Way, Rated current 41A
2497250000	A-Series Cross Connect ZQV 10mm² 2 Way, Rated current 57A
2497290000	A-Series Cross Connect ZQV 16mm² 2 Way, Rated current 76A
2634950000	A-Series Cross Connect ZQV 35mm² 2 Way, Rated current 125A

A-Series Feed Through Terminals

A-Series Two Tier Modular Terminal | Push In Technology Terminals

Product Code	Description
2469370000	1.5mm², Double-tier terminal, PUSH IN, 500V, 16A, Dark Beige, A2T
2469400000	1.5mm², Double-tier terminal, PUSH IN, 500V, 16A, Dark Beige, A2T, Levels cross-connected internally
1547610000	2.5mm², Double-tier terminal, PUSH IN, 800V, 24A, Dark Beige, A2T
1547640000	2.5mm², Double-tier terminal, PUSH IN, 800V, 24A, Dark Beige, A2T, Earth Function & Connection
1547650000	2.5mm², Double-tier terminal, PUSH IN, 800V, 24A, Dark Beige, A2T, Levels cross-connected internally
2539970000	4mm², Double-tier terminal, PUSH IN, 800V, 32A, Dark Beige, A2T
2539980000	4mm², Double-tier terminal, PUSH IN, 800V, 32A, Dark Beige, A2T, Earth Function & Connection
2540020000	4mm², Double-tier terminal, PUSH IN, 800V, 32A, Dark Beige, A2T, Levels cross-connected internally



2469400000

A-Series Two Tier Modular Earth Terminal

Product Code	Description
2469410000	1.5mm², Earth Double-tier terminal, PUSH IN, Green/Yellow, 500V, Clamping Range 0.14/ 1.5mm², A2T
1547680000	2.5mm², Earth Double-tier terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.14/ 2.5mm², A2T
2539990000	4mm², Earth Double-tier terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.14/ 2.5mm², A2T



2469410000

A-Series Three Tier Modular Terminal

Product Code	Description
2428510000	2.5mm², Triple-tier terminal, PUSH IN, 800V, 22A, Dark Beige, A3T
2428540000	2.5mm², Triple-tier terminal, PUSH IN, 800V, 22A, Dark Beige, A3T, Levels cross-connected internally
2428530000	2.5mm², Triple-tier terminal, PUSH IN, 800V, 22A, Dark Beige, A3T Earth Function & Connection



2428510000

A-Series Three Tier Modular Earth Terminal

Product Code	Description
2428550000	2.5mm², Earth Triple-tier terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.14 / 2.5mm², A3T



2428550000

A-Series Motor Connection Terminal

Product Code	Description
2428550000	2.5mm², Motor Connection terminal, PUSH IN, 690V, 22A, Dark Beige, AMC



2428550000

A-Series Feed Through Terminals

A-Series Two Tier Modular Terminal Accessories| Push In Technology Terminals

Product Code	Description
1547690000	A-Series End Plate, A2T, Dark Beige
2428560000	A-Series End Plate, A3T, Dark Beige
2433820000	A-Series End Plate, AMC, Dark Beige



2428560000

A-Series Fuse Terminal Block

Product Code	Description
2429860000	A -Series Fuse terminal, PUSH IN, 4mm², 250V, 6.3A, Black without Led Indication



2429860000

A-Series Test – Disconnect Terminals

Product Code	Description
1989800000	2.5mm², Test-disconnect terminal, PUSH IN, 500V, 20A, Dark Beige, 2 clamping points, 2C
1989830000	2.5mm², Test-disconnect terminal, PUSH IN, 500V, 20A, Dark Beige, 3 clamping points, 3C
1989860000	2.5mm², Test-disconnect terminal, PUSH IN, 500V, 20A, Dark Beige, 4 clamping points, 4C
2429850000	4mm², Test-disconnect terminal, PUSH IN, 500V, 24A, Dark Beige, 2 clamping points, 2C



1989800000

A-Series Test – Disconnect Accessories

Product Code	Description
1521530000	A-Series Test Disconnect End Plate, 2C, Dark Beige
1989970000	A-Series Test Disconnect End Plate, 3C, Dark Beige
1989980000	A-Series Test Disconnect End Plate, 4C, Dark Beige



1989970000

W-Series Feed Through Terminals



Screw Connection Technology Terminals



Product Code	Description
1020000000	2.5mm², Feed-through terminal, Screw connection, 800V, 24A, Dark Beige, WDU
1020080000	2.5mm², Feed-through terminal, Screw connection, 800V, 24A, Blue, WDU
1020010000	2.5mm², Feed-through terminal, Screw connection, 800V, 24A, Black, WDU
1036800000	2.5mm², Feed-through terminal, Screw connection, 800V, 24A, White, WDU
1020060000	2.5mm², Feed-through terminal, Screw connection, 800V, 24A, Orange, WDU
1020020000	2.5mm², Feed-through terminal, Screw connection, 800V, 24A, Yellow, WDU
1020090000	2.5mm², Feed-through terminal, Screw connection, 800V, 24A, Green, WDU
1037720000	2.5mm², Feed-through terminal, Screw connection, 800V, 24A, Grey, WDU
1020040000	2.5mm², Feed-through terminal, Screw connection, 800V, 24A, Red, WDU
1020100000	4mm², Feed-through terminal, Screw connection, 800V, 32A, Dark Beige, WDU
1020180000	4mm², Feed-through terminal, Screw connection, 800V, 32A, Blue, WDU
1020200000	6mm², Feed-through terminal, Screw connection, 800V, 41A, Dark Beige, WDU
1020280000	6mm², Feed-through terminal, Screw connection, 800V, 41A, Blue, WDU
1020300000	10mm², Feed-through terminal, Screw connection, 1000V, 57A, Dark Beige, WDU
1020380000	10mm², Feed-through terminal, Screw connection, 1000V, 57A, Blue, WDU
1020400000	16mm², Feed-through terminal, Screw connection, 1000V, 76A, Dark Beige, WDU
1020480000	16mm², Feed-through terminal, Screw connection, 1000V, 76A, Blue, WDU
1020500000	35mm², Feed-through terminal, Screw connection, 1000V, 125A, Dark Beige, WDU
1020580000	35mm², Feed-through terminal, Screw connection, 1000V, 125A, Blue, WDU
1820840000	50mm², Feed-through terminal, Screw connection, 1000V, 150A, Dark Beige, WDU, No end plate needed
9512190000	70mm², Feed-through terminal, Screw connection, 1000V, 192A, Dark Beige, WDU, No end plate needed
1024600000	95mm², Feed-through terminal, Screw connection, 1000V, 232A, Dark Beige, WDU, No end plate needed
1024500000	120mm², Feed-through terminal, Screw connection, 1000V, 269A, Dark Beige, WDU, No end plate needed

W-Series Earth Terminal Blocks



Product Code	Description
1010000000	2.5mm², PE terminal, Screw connection, 300A, Green/Yellow, WPE
1010100000	4mm², PE terminal, Screw connection, 480A, Green/Yellow, WPE
1010200000	6mm², PE terminal, Screw connection, 720A, Green/Yellow, WPE
1010300000	10mm², PE terminal, Screw connection, 1200A (10mm²), Green/Yellow, WPE
1010400000	16mm², PE terminal, Screw connection, 1920A (16mm²), Green/Yellow, WPE
1010500000	35mm², PE terminal, Screw connection, 4200A (35mm²), Green/Yellow, WPE
1846040000	50mm², PE terminal, Screw connection, 6000A (50mm²), Green/Yellow, WPE
1037300000	95mm², PE terminal, Screw connection, 11400A (95mm²), Green/Yellow, WPE, fold up lid
1846030000	95mm², PE terminal, Screw connection, 11400A (95mm²), Green/Yellow, WPE
1019700000	120mm², PE terminal, Screw connection, 14400A (120mm²), Green/Yellow, WPE

W-Series Feed Through Terminals



1784180000



1021500000



1036300000



1855610000



8731640000



1050000000



8731640000



7910180000



7910190000



1693880000



1758260000

1880410000 | 1880430000
| 1880420000

1011000000



1028400000

W-Series Multi-Level Terminals

Product Code	Description
1021500000	2.5mm ² , Feed-through terminal, Double-tier terminal, Screw connection, 400V, 24A, Dark Beige, WDK2,5
1021580000	2.5mm ² , Feed-through terminal, Double-tier terminal, Screw connection, 400V, 24A, Blue, WDK2,5
1021560000	2.5mm ² , Feed-through terminal, Double-tier terminal, Screw connection, 400V, 24A, Orange, WDK2,5
1022300000	Feed-through terminal, Double-tier terminal, Screw connection, 2.5mm ² , 400V, 24A, Dark Beige Vertically cross-connected, WDK2,5
1036400000	2.5mm ² , Feed-through terminal, Double-tier terminal, Screw connection, 400V, 24A, Dark Beige, PE connection, for screw able cross-connection, One end without connector, WDK2,5DU-PE
1186740000	Feed-through terminal, Double-tier terminal, Screw connection, 10mm ² , 800V, 57A, Dark Beige, WDK10
1784180000	2.5mm ² , Feed-through terminal, Initiator / Actuator terminal, Screw connection, 400V, 24A, Dark Beige, DLD2,5DB, Triple deck

W-Series Multi-Level Earth Terminals

Product Code	Description
1036300000	2.5mm ² , PE terminal, Double-tier terminal, Screw connection, 300A (2.5mm ²), Green/Yellow, WDK2,5PE

W-Series Disconnect Terminals And Accessories

Product Code	Description	Technical Details
1855610000	WTR 2.5 Beige (disconnect terminal)	Imax 14A / Umax 800V / 2.5mm ²
8731640000	WTR 2.5 Blue (disconnect terminal)	Imax 14A / Umax 800V / 2.5mm ²
1050000000	End plate Beige	WAP 2.5–10, Beige
1050080000	End plate Blue	WAP 2.5–10, Blue
1693880000	Cross connect (push in) 10 way	ZQV 2.5N / 10 GE
7910180000	WTR 4 (disconnect terminal)	Imax 32A / Umax 400V / 4mm ²
7910190000	WTR 4 Blue (disconnect terminal)	Imax 32A / Umax 400V / 4mm ²
1050000000	End plate Beige	WAP 2.5–10, Beige
1050080000	End plate Blue	WAP 2.5–10, Blue
1758260000	Cross connect (push in)	ZQV 4N / 10 way

W-Series Fuse Terminals

Product Code	Description
1880430000	W-Series, Fuse terminal, Rated cross-section: 4mm ² , 250V / 6.3A Screw connection, Without LED Type WSI, Black
1880410000	W-Series, Fuse terminal, Rated cross-section: 4mm ² , 250V / 6.3A Screw connection, With LED 10–36V DC / AC LED, Type WSI, Black
1880420000	W-Series, Fuse terminal, Rated cross-section: 4mm ² , 250V / 6.3A, Screw connection, With LED 60–150V AC / DC Type WSI, Black
1880390000	W-Series, Fuse terminal, Rated cross-section: 4mm ² , 250V / 6.3A, Screw connection, With LED 140–250V DC / AC LED Type WSI, Black
1011000000	W-Series, Fuse terminal, Rated cross-section: 6mm ² , 250V / 6.3A, Screw connection, Without LED Type WSI, Beige
1011300000	W-Series, Fuse terminal, Rated cross-section: 6mm ² , 250V / 6.3A, Screw connection, With LED 10–36V DC / AC LED Type WSI, Beige
1012300000	W-Series, Fuse terminal, Rated cross-section: 6mm ² , 250V / 6.3A, Screw connection, With LED 60–150V DC / AC LED Type WSI, Beige
1012400000	W-Series, Fuse terminal, Rated cross-section: 6mm ² , 250V / 6.3A, Screw connection, With LED 140–250V DC / AC LED Type WSI, Beige

W-Series Stud Terminals | Bolt Type

Product Code	Description
1028300000	35mm ² , Bolt-type, Feed-through screw terminals, 1000v, 125A, Dark Beige, WFF Series
1028400000	70mm ² , Bolt-type, Feed-through screw terminals, 1000v, 192A, Dark Beige, WFF Series
1028500000	120mm ² , Bolt-type, Feed-through screw terminals, 1000v, 269A, Dark Beige, WFF Series
1028600000	185mm ² , Bolt-type, Feed-through screw terminals, 1000v, 353A, Dark Beige, WFF Series
1028700000	300mm ² , Bolt-type, Feed-through screw terminals, 1000v, 520A, Dark Beige, WFF Series

W-Series Feed Through Terminals



1054460000 | Cross Connector with screws



1905150000

1050000000



1784210000

1880450000



1059000000

0383560000



1061200000

0292460000



1065100000

1064660000

W-Series Accessories

Product Code	Description
1053660000	W-SeriesCross Connect WQV 2.5mm² 2 Way, Rated current 32A
1053860000	W-SeriesCross Connect WQV 2.5mm² 4 Way, Rated current 32A
1053960000	W-SeriesCross Connect WQV 2.5mm² 5 Way, Rated current 32A
1054460000	W-SeriesCross Connect WQV 2.5mm² 10 Way, Rated current 32A
1577570000	W-SeriesCross Connect WQV 2.5mm² 20 Way, Rated current 32A
1051960000	W-SeriesCross Connect WQV 4mm² 2 Way, Rated current 41A
1054660000	W-SeriesCross Connect WQV 4mm² 4 Way, Rated current 41A
1057860000	W-SeriesCross Connect WQV 4mm² 5 Way, Rated current 41A
1052060000	W-SeriesCross Connect WQV 4mm² 10 Way, Rated current 41A
1052360000	W-SeriesCross Connect WQV 6mm² 2 Way, Rated current 57A
1054860000	W-SeriesCross Connect WQV 6mm² 4 Way, Rated current 57A
1062660000	W-SeriesCross Connect WQV 6mm² 5 Way, Rated current 57A
1052260000	W-SeriesCross Connect WQV 6mm² 10 Way, Rated current 57A
1052560000	W-SeriesCross Connect WQV 10mm² 2 Way, Rated current 76A
1055060000	W-SeriesCross Connect WQV 10mm² 4 Way, Rated current 76A
1052460000	W-SeriesCross Connect WQV 10mm² 10 Way, Rated current 76A
1053260000	W-SeriesCross Connect WQV 16mm² 2 Way, Rated current 101A
1055260000	W-SeriesCross Connect WQV 16mm² 4 Way, Rated current 101A
1053360000	W-SeriesCross Connect WQV 16mm² 10 Way, Rated current 101A
1053060000	W-SeriesCross Connect WQV 35mm² 2 Way, Rated current 125A
1055460000	W-SeriesCross Connect WQV 35mm² 4 Way, Rated current 125A
1053160000	W-SeriesCross Connect WQV 35mm² 10 Way, Rated current 125A
1050000000	W-SeriesEnd Plate for WDU2.5–WDU10
1050100000	W-SeriesEnd Plate for WDU16–WDU35
1050000000	W-SeriesEnd Plate WTR
1059100000	W-SeriesEnd Plate WAP WDK2.5 MULTI-LEVEL Terminals, End plate for WDK2,5
1186720000	W-SeriesEnd Plate WAP WDK10, End plate for WDK10
1880450000	W-SeriesEnd Plate WAP WSI4/2, End plate for WSI Black fuse terminal
1784210000	W-SeriesEnd Plate for DLD Terminal
0383560000	W-SeriesEnd Stop for TS35 Rail (EW35)
1059000000	W-SeriesEnd Stop for TS35 Rail
1061200000	W-SeriesEnd Stop for TS35 Rail
0292460000	Group Marker 19,5mm, Wide Marker, SCHT5
1631930000	Group Marker 9,5mm, Slim Marker, SCHT5S
1064460000	W-SeriesCover Plate for Bolt-type screw terminals 35mm, Dark Beige
1064560000	W-SeriesCross ConnectorWQV50 2 way, Rated current 150A
1064660000	W-SeriesCover Plate for Bolt-type screw terminals 120mm, Dark Beige
1064760000	W-SeriesCover Plate for Bolt-type screw terminals 185mm, Dark Beige
1064760000	W-SeriesCover Plate for Bolt-type screw terminals 300mm, Dark Beige
1064900000	W-SeriesBolt Type Cross Connect for 35mm Terminal WQL 2 Way, Rated current 125A
1834060000	W-SeriesBolt Type Cross Connect for 50mm Terminal WQL 2 Way, Rated current 150A
1065000000	W-SeriesBolt Type Cross Connect for 75mm Terminal WQL 2 Way, Rated current 192A
1065100000	W-SeriesBolt Type Cross Connect for 120mm Terminal WQL 2 Way, Rated current 269A
1065200000	W-SeriesBolt Type Cross Connect for 185mm Terminal WQL 2 Way, Rated current 353A
1065300000	W-SeriesBolt Type Cross Connect for 300mm Terminal WQL 2 Way, Rated current 520A

Relays

Rider Series | DRM Series | 8-pin

Rider Series Relays 1 Change Over



8869810000

Product Code	Description
8869800000	RIDER II RELAYS RCI SERIES 1 C/O 12V DC Coil 16AMP
8870240000	RIDER II RELAYS RCI SERIES 1 C/O 12V DC Coil 16AMP + Test Button + LED + Diode
8869810000	RIDER II RELAYS RCI SERIES 1 C/O 24V DC Coil 16AMP
8870250000	RIDER II RELAYS RCI SERIES 1 C/O 24V DC Coil 16AMP + Test Button + LED + Diode
8869820000	RIDER II RELAYS RCI SERIES 1 C/O 48V DC Coil 16AMP
8870260000	RIDER II RELAYS RCI SERIES 1 C/O 48V DC Coil 16AMP + Test Button + LED + Diode
8869850000	RIDER II RELAYS RCI SERIES 1 C/O 115V AC Coil 16AMP
8870290000	RIDER II RELAYS RCI SERIES 1 C/O 115V AC Coil 16AMP + Test Button + LED + Diode
8869860000	RIDER II RELAYS RCI SERIES 1 C/O 230V AC Coil 16AMP
8870300000	RIDER II RELAYS RCI SERIES 1 C/O 230V AC Coil 16AMP + Test Button + LED + Diode

Rider Series Relays 2 Change Over | 8-pin



8870320000

Product Code	Description
8869870000	RIDER II RELAYS RCI SERIES 2 C/O 12V DC Coil 8AMP
8870310000	RIDER II RELAYS RCI SERIES 2 C/O 12V DC Coil 8AMP + Test Button + LED + Diode
8869890000	RIDER II RELAYS RCI SERIES 2 C/O 24V DC Coil 8AMP
8870320000	RIDER II RELAYS RCI SERIES 2 C/O 24V DC Coil 8AMP + Test Button + LED + Diode
8869900000	RIDER II RELAYS RCI SERIES 2 C/O 48V DC Coil 8AMP
8870330000	RIDER II RELAYS RCI SERIES 2 C/O 48V DC Coil 8AMP + Test Button + LED + Diode
8869930000	RIDER II RELAYS RCI SERIES 2 C/O 115V AC Coil 8AMP
8870360000	RIDER II RELAYS RCI SERIES 2 C/O 115V AC Coil 8AMP + Test Button + LED + Diode
8869940000	RIDER II RELAYS RCI SERIES 2 C/O 230V AC Coil 8AMP
8870370000	RIDER II RELAYS RCI SERIES 2 C/O 230V AC Coil 8AMP + Test Button + LED + Diode

Rider Relay Bases + Accessories



8869490000

Product Code	Description
8869490000	Screw Connection Base 1 & 2-pole Coil on 1 Side
8869480000	Screw Connection Base 1 & 2-pole Symmetrical
8869500000	Push-In Connection Base I & 2-pole Coil on 1 Side
8869510000	Retaining Clip
8869530000	Marking Tag

Relays



7760056069

Rider Series | DRM Series

DRM Series Relays 2 Change Over | 8-pin, Flat Pins

Product Code	Description
7760056050	DRM RELAY 2 C/O 12V DC Coil 10AMP
7760056050	DRM RELAY 2 C/O 12V DC Coil 10AMP With LED + Test Lever
7760056051	DRM RELAY 2 C/O 24V DC Coil 10AMP
7760056069	DRM RELAY 2 C/O 24V DC Coil 10AMP With LED + Test Lever
7760056057	DRM RELAY 2 C/O 115V AC Coil 10AMP
7760056075	DRM RELAY 2 C/O 115V AC Coil 10AMP With LED + Test Lever
7760056058	DRM RELAY 2 C/O 230V AC Coil 10AMP
7760056076	DRM RELAY 2 C/O 230V AC Coil 10AMP With LED + Test Lever



7760056079

DRM Series Relays 4 Change Over | 14-pin, Flat Pins

Product Code	Description
7760056078	DRM RELAY 4 C/O 12V DC Coil 5AMP
7760056096	DRM RELAY 4 C/O 12V DC Coil 5AMP With LED + Test Lever
7760056079	DRM RELAY 4 C/O 24V DC Coil 5AMP
7760056097	DRM RELAY 4 C/O 24V DC Coil 5AMP With LED + Test Lever
7760056085	DRM RELAY 4 C/O 115V AC Coil 5AMP
7760056103	DRM RELAY 4 C/O 115V AC Coil 5AMP With LED + Test Lever
7760056086	DRM RELAY 4 C/O 230V AC Coil 5AMP
7760056104	DRM RELAY 4 C/O 230V AC Coil 5AMP With LED + Test Lever

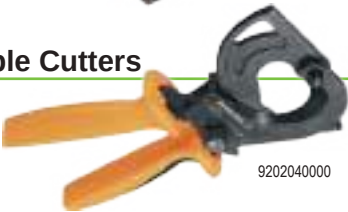


7760056107

DRM Series Relays Bases

Product Code	Description
7760056106	Base for DRM 2 C/O relay 8-pin
7760056107	Base for DRM 4 C/O relay 14-pin

Cable Cutters



9202040000

Product Code	Description
9202040000	KT45 R, Cable Cutter Up to 300mm
9202060000	KT55, Cable Cutter Up to 500mm
9202080000	KT 80, Cable Cutter Up to 630mm

Crimping Tools For Bootlace Ferrules



9202040000

Product Code	Description
9012500000	PZ 4, Crimper 0.5-4mm Trapezoidal Crimp
9011460000	PZ 6/5, Crimper 0.25-6mm Trapezoidal Indent Crimp
9014350000	PZ 6 ROTO, Crimper 0.14-6mm Trapezoidal Crimp
1445070000	PZ 10 HEX, Crimper 0.14-10mm Hexagon Crimp
1445080000	PZ 10 SQR, Crimper 0.14-10mm Square Crimp
9012600000	PZ 16, Crimper 6-16mm Indent Crimp
9013600000	PZ ZH 16, Twin Ferrule Crimper 6-16mm Indent Crimp
9006450000	PZ 50, Crimper 25-50mm Indent Crimp

Stripping Tools



9005000000

Product Code	Description
1468880000	STRIPAX ULTIMATE, Stripper 0.25-6mm
9005000000	STRIPAX, Stripper 0.25-4mm
9005610000	STRIPAX 16, Stripper 6-16mm
9001540000	AM25, 6-25mm Cable Stripper
9001080000	AM 35, 25-36mm Cable Stripper

Side Cutters



Product Code	Description
9002650000	KT 8, Wire Cutter 8mm²
9002660000	KT 12, Wire Cutter 12mm²
1157820000	KT 14, Wire Cutter 14mm²
1157830000	KT 22, Wire Cutter 22mm³

Screwdriver Sets Insulated



Product Code	Description
2749750000	SDI SET S2.5-5.5/PH1/2, Set Flat & Star, Screw Driver Sets Insulated
1128540000	A2LS/25/NPT3/4-WM
2749770000	SDI SET S2.0-5.5, Set Flat
2749580000	SDI SET SLIM S3.5-6.5/PH1/2, Slimline Set

Swiftly screwdriver with Cutting Adapter



Product Code	Description
9006020000	Swiftly set, Swiftly Cutter
9006060000	Swiftly set, Swiftly set c/w Screwdriver
9008330000	Insulated Flat Blade, 0.6 X 3,5 X 100

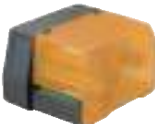
Patch Cables



Product Code	Description
1251590005	IE-C6FP8LG0005M40M40-G, Patch cable, RJ45 IP20, <20 m: Cat.6A / >20m Class EA (ISO/IEC 11801 2010), LSZH, 0.5m
1251590010	IE-C6FP8LG0010M40M40-G, Patch cable, RJ45 IP20, <20m: Cat.6A / >20m Class EA (ISO/IEC 11801 2010), LSZH, 1m
1251590015	IE-C6FP8LG0015M40M40-G, Patch cable, RJ45 IP20, <20m: Cat.6A / >20m Class EA (ISO/IEC 11801 2010), LSZH, 1.5m
1251590002	IE-C6FP8LG0002M40M40-G, Patch cable, RJ45 IP20, <20m: Cat.6A / >20m Class EA (ISO/IEC 11801 2010), LSZH, 2m
1251590003	IE-C6FP8LG0003M40M40-G, Patch cable, RJ45 IP20, <20m: Cat.6A / >20m Class EA (ISO/IEC 11801 2010), LSZH, 3m
1251590050	IE-C6FP8LG0050M40M40-G, Patch cable, RJ45 IP20, <20m: Cat.6A / >20m Class EA (ISO/IEC 11801 2010), LSZH, 5m



Printing Systems

		Product Code	Description	Technical Data
		1324380000	PRINT JET Advanced 230V AC	MultiCard Marker
		2599430000	THMmmP 230V AC Economy Printer, Multimark Thermal Transfer	MultiCard Marker

Consumables Printjet Advanced

		Product Code	Description
 1338720000		1338720000	PJ PRO TNTK INK SET COL Ink Tank Starter Set Colour
		1338690000	PJ PRO TNTK INK K Ink Tank. Black
		1338680000	PJ PRO TNTK INK C Ink Tank. Cyan
		1338670000	PJ PRO TNTK INK M Ink Tank. Magenta
		1338650000	PJ PRO TNTK INKY Ink Tank. Yellow

Consumables Printjet Pro

		Product Code	Description
 1027110000		1027110000	PJ PRO TNTK INK SET COL Ink Tank Starter Set Colour
		1027040000	PJ PRO TNTK INK K Ink Tank. Black
		1027050000	PJ PRO TNTK INK C Ink Tank. Cyan
		1027060000	PJ PRO TNTK INK M Ink Tank. Magenta
		1027070000	PJ PRO TNTK INKY Ink Tank. Yellow

Consumables THMmmP | Economy Printer

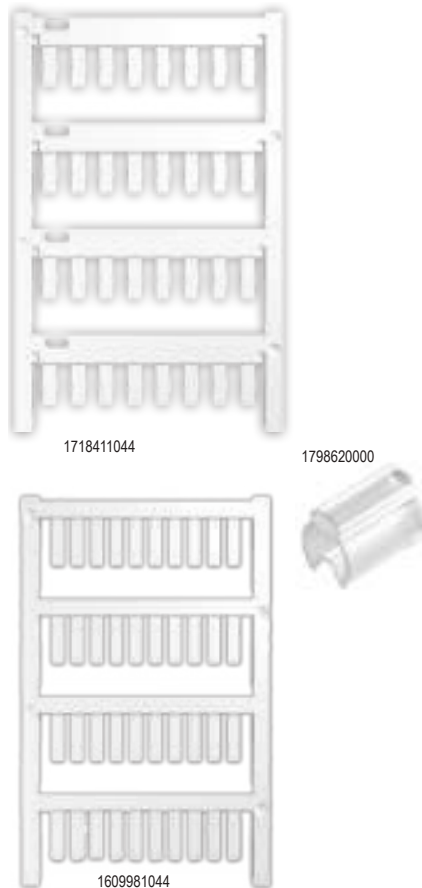
		Product Code	Description
 1331600000	 1302920000	1331600000	THMmmP Cutter
	 2005090000	1416330000	THMmmP Perforator
		1302920000	THMmmP EXT.HR
		2005090000	RIBBONmm-TB 25/360 SW
		2005080000	RIBBONmm-TB 80/360 SW
		2005070000	RIBBONmm-TB 110/360
		2448880000	MM-TB-HS 60/300 SW



Terminal Markers | Printjet Advanced

 1609801044	Product Code	Description	Technical Data	Packing Qty
	1609801044	DEK 5/5 MC-10 NEUT. WS	WEIDMULLER 5 x 5mm	200
	1609820000	DEK 5/6 MC-10 NEUT.WS	WEIDMULLER 5 x 6mm	200
	1609840000	DEK 5/6.5 MC NEUT.WS	WEIDMULLER 5 x 6.5mm	180
	1856740000	DEK 5/8 MC NEUT.WS	WEIDMULLER 5 x 8mm	64

Wire And Cable Markers TM-I | Printjet Advanced

 1718411044 1798620000 1609981044	Product Code	Description	Technical Data	Packing Qty
	1718411044	TM-I 12 neutral White	12mm Markers	64
	1718411687	TM-I 12 neutral Yellow	12mm Markers	64
	1798640000	TM 20 I /12 sleeve	0.25–1.5mm	1000
	1798560000	TM 202/12 sleeve	0.5–2.5mm	1000
	1798510000	TM 203/12 sleeve	2.5–10mm	500
	1609981044	TM-I 15 neutral White	15mm Markers	80
	1609981687	TM-I 15 neutral Yellow	15mm Markers	80
	1798620000	TM 201/15 sleeve	0.25–1.5mm	1000
	1798540000	TM 202/15 sleeve	0.5–2.5mm	1000
	1798490000	TM 203/15 sleeve	2.5–10mm	500
	1718431044	TM-I 18 neutral White	18mm Markers	64
	1718431687	TM-I 18 neutral Yellow	18mm Markers	64
	1798600000	TM 201/18 sleeve	0.25–1.5mm	1000
	1798530000	TM 202/18 sleeve	0.5–2.5mm	1000
	1798480000	TM 203/18 sleeve	2.5–10mm	500
Sleeve for printjet advanced makers and THM Economy printer.				

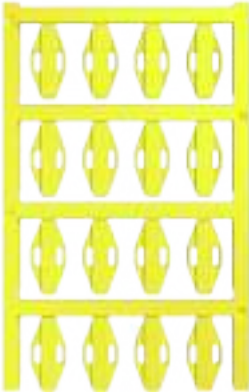
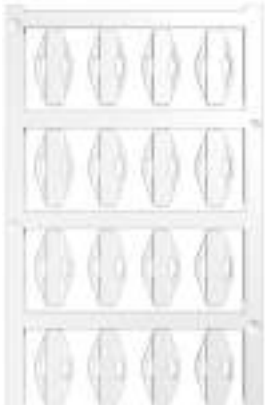
Wire And Cable Markers TM-I

1680411044  1798580000 	Product Code	Description	Technical Data	Packing Qty
	1680411044	TM-I 20 Neutral, White	20mm Markers	80
	1680411687	TM-I 20 Neutral, Yellow	20mm Markers	80
	1798580000	TM 201/20 Sleeve	0.25–1.5mm	1000
	1798520000	TM 202/20 Sleeve	0.5–2.5mm	1000
	1798470000	TM 203/20 Sleeve	2.5–10mm	500
	1876390000	TM-I 30 MC Neutral, White	30mm Markers	60
	1876370000	TM-I 30 MC Neutral, Yellow	30mm Markers	60
	1874850000	TM 201/30 Sleeve	0.25–1.5mm	500
	1874760000	TM 202/30 Sleeve	0.5–2.5mm	500
	1874770000	TM 203/30 Sleeve	2.5–10mm	200
	Sleeve for printjet advanced makers and THM Economy printer.			

Terminal Markers WS | Printjet Advanced

 1635000000	Product Code	Description	Technical Data	Packing Qty
	1635000000	WS 10/5 MC NEUTRAL	WEIDMULLER 10 x 5mm	144
	1609860000	WS 12/5 MC NEUTRAL	WEIDMULLER 12 x 5mm	144
	1609900000	WS 12/6 MC NEUTRAL	WEIDMULLER 12 x 6mm	120

Wire And Cable Markers Slimfix SFX | Printjet Advanced

 1852360000  1852390000	Product Code	Description	Technical Data	Packing Qty
	1852490000	SFX 9/24 NEUTRAL White	Cable Marker 23.9 x 9mm	32
	1852460000	SFX 9/24 NEUTRAL Yellow	Cable Marker 23.9 x 9mm	32
	1852440000	SFX 14/23 NEUTRAL White	Cable Marker 23 x 8mm	32
	1852410000	SFX 14/23 NEUTRAL Yellow	Cable Marker 23 x 8mm	32
	1852390000	SFX 10/23 NEUTRAL White	Cable Marker 23 x 5mm	32
	1852360000	SFX 10/23 NEUTRAL Yellow	Cable Marker 23 x 5mm	32
	1860120000	SFX 11/60 MC WS	Cable Marker 44 x 11mm	12
	1860130000	SFX 11/60 MC GR	Cable Marker 44 x 11mm	12
	1860150000	SFX 11/60 MC GE	Cable Marker 44 x 11mm	12
	1051870000	SFX 11/60 MC BL	Cable Marker 44 x 11mm	12
	1963650000	SFX 11/60 MC RT	Cable Marker 44 x 11mm	12
	1051890000	SFX 11/60 MC OR	Cable Marker 44 x 11mm	12
	1963660000	SFX 11/60 MC GN	Cable Marker 44 x 11mm	12
	1051880000	SFX 11/60 MC VI	Cable Marker 44 x 11mm	12

THM Markers | Economy Printer

Primer Required For Cleaning Prior To Printing

Product Code	Description	Technical Data	Packing Qty
1341200000	PrimerCC - M	Primer	1
2005630000	CC 15 / 27mm GE	ClipCard, Device markers, 15 x 27mm	450
2005600000	CC 15 / 27mm WS	ClipCard, Device markers, 15 x 27mm	450
2005520000	CC 15 / 45mm GE	ClipCard, Device markers, 15 x 45mm	450
2005500000	CC 15 / 45mm WS	ClipCard, Device markers, 15 x 45mm	450
2005430000	CC 15 / 60mm GE	ClipCard, Device markers, 15 x 60mm	450
2005410000	CC 15 / 60mm WS	ClipCard, Device markers, 15 x 60mm	450
2005350000	CC 30 / 60mm GE	ClipCard, Device markers, 30 x 60mm	450
2005330000	CC 30 / 60mm WS	ClipCard, Device markers, 30 x 60mm	450
2005280000	CC 85 / 54mm GE	ClipCard, Device markers, 54 x 85mm	450
2005270000	CC 85 / 54mm WS	ClipCard, Device markers, 54 x 85mm	450
2007110000	DEK5 / 5mmWS	Dekafix, Terminal marker, 5 x 5mm	800
2007120000	DEK5 / 6mmWS	Dekafix, Terminal marker, 5 x 6mm	600
2007130000	DEK5 / 8mmWS	Dekafix, Terminal marker, 5 x 8mm	500
2005200000	ELS 16 / 40mm WS	ELS, Insert markers, 40 x 16mm	2000
2010620000	ELS 6 / 30mm GE	ELS, Insert markers, 40 x 30mm	3000
2009980000	ELS 6 / 30mm WS	ELS, Insert markers, 40 x 30mm	3000
2005110000	ESG 6 / 17mm GE	ESG, Device markers, 6 x 17mm	3000
2005100000	ESG 6 / 17mm WS	ESG, Device markers, 6 x 17mm	3000
2005400000	SFX 11 / 60mm GE	SlimFix, Conductor and cable markers, 60 x 13mm	1000
2005340000	SFX 11 / 60mm WS	SlimFix, Conductor and cable markers, 60 x 13mm	1000
2005420000	SFX 30 / 60mm GE	SlimFix, Conductor and cable markers, 60 x 30mm	300
2005360000	SFX 30 / 60mm WS	SlimFix, Conductor and cable markers, 60 x 30mm	300
2005380000	SFX 9 / 24mm GE	SlimFix, Conductor and cable markers, 26 x 15mm	1000
2005320000	SFX 9 / 24mm WS	SlimFix, Conductor and cable markers, 26 x 15mm	1000
2006510000	SM 27 / 12.5mm GE	SwitchMark, Device markers, 12.5 x 27mm	1000
2006500000	SM 27 / 12.5mm WS	SwitchMark, Device markers, 12.5 x 27mm	1000
2006300000	SM 27 / 18mm GE	SwitchMark, Device markers, 18 x 27mm	1000
2006280000	SM 27 / 18mm WS	SwitchMark, Device markers, 18 x 27mm	1000
2006420000	SM 27 / 8mm GE	SwitchMark, Device markers, 8 x 27mm	1000
2006400000	SM 27 / 8mm WS	SwitchMark, Device markers, 8 x 27mm	1000
2006080000	SM 36 / 18-30mm GE	SwitchMark, Device markers, 56 x 36mm	1000
2006060000	SM DIA 60-22mm GE	THMmmP Marker	1000
2005440000	TM-I 12mmWS	TM-I, Insert markers, 12 x 4mm	2000
2005580000	TM-I 15mm GE	TM-I, Insert markers, 15 x 4mm	2000
2005450000	TM-I 15mmWS	TM-I, Insert markers, 15 x 4mm	2000
2005610000	TM-I 18mm GE	TM-I, Insert markers, 18 x 4mm	2000
2005470000	TM-I 18mmWS	TM-I, Insert markers, 18 x 4mm	2000
2005640000	TM-I 20mmGE	TM-I, Insert markers, 20 x 4mm	2000
2005490000	TM-I 20mmWS	TM-I, Insert markers, 20 x 4mm	2000
2005700000	TM-I 30mmGE	TM-I, Insert markers, 30 x 4mm	2000
2005530000	TM-I 30mmWS	TM-I, Insert markers, 30 x 4mm	2000

2005110000

2005110000

2005340000

2006080000

2005450000

T1 Slotted Trunking / Wire Duct (Standard Grey)



Product Code	Description (W xD)	Length	Packaging Qty
02576	25 X 40mm Narrow slotted trunking / wire duct	2m	36
02579	40 X 40mm Narrow slotted trunking / wire duct	2m	20
00837	60 X 40mm Narrow slotted trunking / wire duct	2m	12
00838	80 X 40mm Narrow slotted trunking / wire duct	2m	12
00845	100 X 40mm Narrow slotted trunking / wire duct	2m	8
02577	25 X 60mm Narrow slotted trunking / wire duct	2m	24
02580	40 X 60mm Narrow slotted trunking / wire duct	2m	18
02583	60 X 60mm Narrow slotted trunking / wire duct	2m	12
00839	80 X 60mm Narrow slotted trunking / wire duct	2m	12
00840	100 X 60mm Narrow slotted trunking / wire duct	2m	8
00843	120 X 60mm Narrow slotted trunking / wire duct	2m	8
02578	25 X 80mm Narrow slotted trunking / wire duct	2m	24
02581	40 X 80mm Narrow slotted trunking / wire duct	2m	16
02584	60 X 80mm Narrow slotted trunking / wire duct	2m	12
02586	80 X 80mm Narrow slotted trunking / wire duct	2m	12
02588	100 X 80mm Narrow slotted trunking / wire duct	2m	8
00841	120 X 80mm Narrow slotted trunking / wire duct	2m	8
02582	40 X 100mm Narrow slotted trunking / wire duct	2m	8
02585	60 X 100mm Narrow slotted trunking / wire duct	2m	4
02587	80 X 100mm Narrow slotted trunking / wire duct	2m	4
02589	100 X 100mm Narrow slotted trunking / wire duct	2m	4
*Can order single units.			

T1 Replacement Covers (Standard Grey)



Product Code	Description	Packaging Qty
00701	15mm Replacement covers (width)	20
00702	25mm Replacement covers (width)	20
00703	40mm Replacement covers (width)	20
00704	60mm Replacement covers (width)	20
00705	80mm Replacement covers (width)	20
00706	100mm Replacement covers (width)	25
00707	120mm Replacement covers (width)	25
00708	150mm Replacement covers (width)	25
*Can order single units.		

Mounting Rail



Product Code	Description
ONKA-7163	Rail mounting socket (inlet and outlet with LED and cover)

Slotted Cable Trunking (Narrow Slot) – Economy

	Product Code	Description (W x H)	Length*	Product Code	Description (W x H)	Length*
	7180	25 x 30mm Narrow slot trunking	2m, 84L	7177	60 x 40mm Narrow slot trunking	2m, 40L
	7181	25 x 40mm Narrow slot trunking	2m, 84L	7185	60 x 60mm Narrow slot trunking	2m, 24L
	7182	25 x 60mm Narrow slot trunking	2m, 48L	7188	60 x 80mm Narrow slot trunking	2m, 24L
	7183	40 x 40mm Narrow slot trunking	2m, 60L	7187	80 x 60mm Narrow slot trunking	2m, 24L
	7184	40 x 60mm Narrow slot trunking	2m, 36L	7178	80 x 80mm Narrow slot trunking	2m, 24L
	7186	40 x 80mm Narrow slot trunking	2m, 40L	7179	100 x 60mm Narrow slot trunking	2m, 24L
Cover included *1 Slotted cable trunking is 2m length and **L is the quantity found in a box.						

Slotted Cable Trunking (Covers only)

	Product Code	Description	Length
	7290	25mm (Width) Slotted Trunking covers only	2m
	7291	40mm (Width) Slotted Trunking covers only	2m
	7292	60mm (Width) Slotted Trunking covers only	2m
	7293	80mm (Width) Slotted Trunking covers only	2m
	7294	100mm (Width) Slotted Trunking covers only	2m

Cable Trunking Cutter

	Product Code	Description
	PKM125	Cable slotted trunking cutter, Max. 120mm Each
	MRK1	DIN rail cutter, 35 x 7.5mm Each

Slotted Mounting Din Rails

	Product Code	Description	PCS/Box
	ONKA-4223G	2m, 35 x 7.5mm (Cr+3 plated), Standard DIN rail	50
	ONKA-4113	2m, 15 x 5.5mm (Cr+3 plated), Mini DIN rail	50
	ONKA-4133	2m, 35 x 7.5mm (Aluminium), Standard Aluminium DIN rail	35
	ONKA-4172	Sheet Mounting Rail Support (CR-3 Plated), DIN rail support	100

Bootlace Ferrules (Single + Twin)

	Product Code	Type	Description	Pack
	ONKA-8006	Single	Insulated cord end terminal 0.5mm, White	1000
	ONKA-8010	Single	Insulated cord end terminal 0.75mm, Blue	1000
	ONKA-8014	Single	Insulated cord end terminal 1mm, Red	1000
	ONKA-8017	Single	Insulated cord end terminal 1.5mm, Black	1000
	ONKA-8021	Single	Insulated cord end terminal 2.5mm, Grey	500
	ONKA-8025	Single	Insulated cord end terminal 4mm, Orange	500
	ONKA-8028	Single	Insulated cord end terminal 6mm, Green	250
	ONKA-8030	Single	Insulated cord end terminal 10mm, brown	100
	ONKA-8032	Single	Insulated cord end terminal 16mm, Beige	100
	ONKA-8034	Single	Insulated cord end terminal 25mm, Black	50
	ONKA-8036	Single	Insulated cord end terminal 35mm, Red	50
	ONKA-8039	Single	Insulated cord end terminal 50mm, Blue	25
	ONKA-8041	Single	Insulated cord end terminal 70mm, Yellow	25
	ONKA-8161-P	Twin	Insulated twin cord end terminal 2x 0.5mm, White	1000
	ONKA-8162-P	Twin	Insulated twin cord end terminal 2x 0.75mm, Blue	500
	ONKA-8164	Twin	Insulated twin cord end terminal 2x 1mm, Red	500
	ONKA-8166	Twin	Insulated twin cord end terminal 2x 1.5mm, Black	500
	ONKA-8168-P	Twin	Insulated twin cord end terminal 2x 2.5mm, Grey	250
	ONKA-8170-P	Twin	Insulated twin cord end terminal 2x 4mm, Orange	200
	ONKA-8171-P	Twin	Insulated twin cord end terminal 2x 6mm, Green	100
	ONKA-8172-P	Twin	Insulated twin cord end terminal 2x 10mm, brown	50
	ONKA-8173-P	Twin	Insulated twin cord end terminal 2x 16mm, Beige	50

KombiSIGN 72 Signal Towers | 70mm Diameter



- Your benefits**
- The KombiSIGN 71 has successfully established itself as the standard in industrial applications over recent years. The patented bayonet mechanism enables elements to be installed or removed in a matter of seconds.
- A wide range of accessories ensures maximum flexibility
 - High-tech: The Signal Towers can easily be retrofitted with SmartMONITOR (intelligent MDE alternative) or AndonSPEED (call for action system)
 - Completely pre-assembled standard versions are available (common configurations as a complete tower with a single part number)
 - IP65
 - KS 71 & KS72 can be combined

(LED) Twinlight Light Element / Standard | Integrated | 70mm Diameter (KS72 & KS71)



Product Code	Voltage	Product Code	Voltage	Colour
647.110.75	24V DC	644.100.68	230V AC	Red
647.210.75	24V DC	644.200.68	230V AC	Green
647.310.75	24V DC	644.300.68	230V AC	Yellow
647.410.75	24V DC	644.400.68	230V AC	Clear
647.510.75	24V DC	644.500.68	230V AC	Blue

The 647 series has both blinking and permanent effects in a single module (Die switch).

Buzzer Element



Product Code	Description
645.870.75	85dB, 25 RNA, IP65, continuous or pulse tone, 24V DC , 2 tone
645.800.68	85dB, 25 RNA, IP65, continuous or pulse tone, 230V AC

LED Permanent Light Element | Multicolour In Single Lens



Product Code	644.450.55
Light Effect	LED permanent
Possible Colours	Red, Yellow, Green, White, Blue, violet, turquoise
No. of Modules Possible	Max. 3 (including multicolour element)
Voltage	24V DC

Audible Element



Audible Element	
Product Code	Description
645.870.75	2 tone siren, 105DB, 24VAC/DC



Accessories for both KombiSIGN 71 and KombiSIGN 72

Signal Towers | 70mm Diameter (Indication Plate)



Product Code	Dimensions Of Indication Board (HxW)	Material
960.000.05	148 x 342mm	perspex
Complete 5-way Indication board with connection bracket. Fits with both the KombiSIGN 71 and KombiSIGN 72.		

Terminal Elements



Product Code	Description
640.800.00	Terminal element, Base Mounting, Cage Clamp
640.810.00	Terminal element, Tube Mounting, Cage Clamp
640.830.00	Terminal element, Tube Mounting, Screw Terminal
Fits with both the KombiSIGN 71 and KombiSIGN 72.	

Mounting



Product Code	Description
975.840.25	250mm long, all anodized
975.840.60	600mm long, all anodized
975.840.03	1000mm long, all anodized
975.840.90	Base for tube, plastic
975.840.91	Base for tube, metal
960.000.02	Bracket for wall mounting
975.840.85	Bracket for 1-sided mounting – wall mounting
975.840.86	Bracket for 2-sided mounting
960.000.14	Bracket for base mounting (concealed cable entry)
960.000.01	Bracket for tube mounting
975.840.10	Tube + integrated base, plastic
Fits with both the KombiSIGN 71 and KombiSIGN 72.	

LineLIGHT Fusion



- Multicolour variant offers up to seven colours in one beacon: red,
- Connection via a pre-assembled M12 plug.
- Screw mounting using a clip.

With ACoustic Signal

Product Code	Voltage	Dimensions (L x H x W)	Current Usage	Product Code	Voltage	Dimensions (L x H x W)	Current Usage
300.100.02	24V DC	145x33x23mm	110mA	300.100.04	24V DC	145x33x 23mm	110mA
300.100.06	24V DC	245x33x23mm	165mA	300.100.08	24V DC	245x33x 23mm	165mA
300.100.10	24V DC	545x33x23mm	325mA	300.100.12	24V DC	545x33x 23mm	325mA

Without ACoustic Signal

Product Code	Voltage	Dimensions (L x H x W)	Current Usage	Product Code	Voltage	Dimensions (L x H x W)	Current Usage
300.100.01	24V DC	145x33x23mm	100 mA	300.100.03	24V DC	145x33x23mm	100 mA
300.100.05	24V DC	245x33x23mm	155 mA	300.100.07	24V DC	245x33x23mm	155 mA
300.100.09	24V DC	545x33x23mm	315 mA	300.100.11	24V DC	545x33x23mm	315 mA

eSIGN 9 Segments BK for Maximum Flexibility | 72mm Diameter



- Your benefits**
An electronically modular signal tower that sets new standards in terms of visibility, individuality and efficiency.
- **Segments:** 9 freely triggerable segments.
 - **Siren Option:** Configurable with or without a siren.
 - **Power Supply:** Standard 24V version.
 - **Configuration Transfer:** Via USB.
 - **Technology Version:** Available with IO-Link technology.
 - **Connection Type:** M12 connection.
 - **Cleanroom Approval:** Approved for Class 2 cleanroom applications.

eSIGN 9 Segments | IO-Link Technology and 24V Version | Black Housing Colour



IO-Link Technology							
Product Code	Siren	Current Consumption	Connection	Materials	Voltage	Lens Colour	IP Rating
657.010.55	without Siren	405 mA	M12 plug 8-pole	PC	24V DC	Transparent	IP66 / IP68K
657.110.55	with Siren	335 mA	M12 plug 8-pole	PC	24V DC	Transparent	IP66 / IP68K
*Installations options: Base mounting, wall mounting, tube mounting. Complete all-in-one solution supplied.							
Standard 24V Version							
Product Code	Siren	Current Consumption	Connection	Materials	Voltage	Lens Colour	IP Rating
657.100.55	with Siren	405 mA	M12 plug 4-pole	PC	24V DC	Transparent	IP66 / IP68K
657.000.55	without Siren	335 mA	M12 plug 4-pole	PC	24V DC	Transparent	IP66 / IP68K

Optical Data (Available with every eSign Segment tower light.)

Light Source	Light Colour	Optical Light Effects
LED	Multicolour*	Permanent, Blink, Flash, Double flash, Triple flash and Revolving
*Various colours configurable.		

Audible Data: Only Applicable For Versions With Sirens

Volume (Max) At 1m Distance	ACoustic Signal Image	Number of Tones	Adjustable Sound Output / Adjustable Range
105 dB	Multi-tone	10 tone	4 stages / 80 - 105 dB (A), depending on tone type
6-segment and 15-segment options available; please enquire. Also available in white.			

Permanent / Traffic Light Beacon (E27)



890.100.00

Product Code	Colour	Voltage
890.100.00	Red	12–230V AC / DC (set)
890.200.00	Green	12–230V AC / DC (set)
890.300.00	Yellow	12–230V AC / DC (set)
890.400.00	Clear	12–230V AC / DC (set)
890.500.00	Blue	12–230V AC / DC (set)

LED lamp ordered separately below.



Traffic Light Beacon Accessories

Example of a completed solution.



Product Code	Description
975.890.33	Fixing bracket for one beacon
975.890.34	Fixing bracket for two beacon
975.890.35	Fixing bracket for three beacon
975.890.25	Connecting grommet for traffic light combinations



E27 LED Light bulb

Product Code	Description
HS-E27-25W-DL	25W, E27 LED, 85–260V AC
SLL-L2407D24VDC	7W, E27 LED, 24V DC

Traffic Light Sounder 32 Tone 110dB



Product Code	Description
190.000.55	10–30V DC , Grey
190.000.67	115V AC, Grey
190.000.68	230V AC, Grey

LED Installation Beacon (Multicolour)



Product Code	Voltage	Signal Effect	Colour	Fixing	Connection
239.480.55	24V DC	LED Permanent	Multi colour (Red, Yellow, Green, clear, Blue)	Installation mounting for Ø 22.5mm (M22x1.5mm)	Screw terminal max. 0.5mm ²

Five colours in one beacon. | Multiple status warnings can be signalled by one beacon. | Colours can be triggered via the terminals. | Positive and negative control logic. | The three basic colours (Red/Yellow/Green) can be triggered using only two PLC outputs. | Diameter 50mm and height 78mm. | IP65

Installation Buzzer



Product Code	Voltage	Dimensions (ØxHeight)	Sound Output
111.000.55	24V DC	50 x 22mm (Protrusion)	80dB
111.000.68	230V AC	50 x 22mm (Protrusion)	80dB

IP65 | 22mm hole size.

Multi-Tone Sounder



Product Code	Voltage	Colour	Dimensions (Ø x H)	Cable Entry	Tone Types and Frequencies
140.150.50	9–28V DC	Red	100 x 110mm	Cable gland M20 x 1.5mm	Selectable via DIP-switch
140.150.60	115–230V AC	Red	100 x 110mm	Cable gland M20 x 1.5mm	Selectable via DIP-switch

32 tones for a diverse range of applications. | Adjustable sound output to 112dB. | Direct external setting of two tones possible with low voltage version. | IP65.

Mini Installation Beacon / Beacon Multicolour | 3 Colour



MC55 RGY M12-plug 24V DC

Product Code	240.220.55
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Mechanical Data

Height	71mm
Diameter	55mm
Dome Colour	Clear
Housing Colour	Black
Protection Category	IP65
Connection	M12 plug 5-pole
Cable Length	100mm
Tension Relief	Pull-out protection
Type of Fixing	Built-in mounting
Service Life Optical	50,000h maximum

Electrical Data

Operating Voltage	24V
Operating Voltage Type	DC
Rated Operational Voltage	24V DC
Protection Class	Protection class 2

Optical Data

Light Source	LED
Light Colour	MC 3 colours
Optical Signal Image	Permanent

Mini Installation Beacon / Beacon Multicolour | 7 Colour



MC55 RGB M12-plug 10-30V DC

Product Code	240.120.50
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Mechanical Data

Height	71mm
Diameter	55mm
Dome Colour	Clear
Housing Colour	Black
Protection Category	IP65
Connection	M12 plug 5-pole
Cable Length	100mm
Tension Relief	Pull-out protection
Type of Fixing	Built-in mounting
Service Life Optical	50,000h maximum

Electrical Data

Operating Voltage	10-30V
Operating Voltage Type	DC
Rated Operational Voltage	24V DC
Protection Class	Protection class 2

Optical Data

Light Source	LED
Light Colour	MC 7 colours
Optical Signal Image	Permanent



Base / Tube Mounting | Push-in Terminals (24V) with Buzzer



Features

- Pre-configured signal tower with modern design and ideal visibility.
- Homogeneous illumination and ideal visibility of the illuminated signals.
- The IP66/IP69K protection rating enables use in a wide variety of environments.
- 2-tone buzzer with up to 90 dB, integrated with every RST56 signal tower.

Product Code	Tier	Voltage	Signal Effect	Light Colour	Materials	Fixing	Dimensions (Ø x H)
686.260.35	2	24V DC	Permanent	Green, red	ABS, PC, PC/ABS	Base and tube mounting variant with cable connection.	57 x 156mm
686.370.35	3	24V DC	Permanent	Green, yellow, red	ABS, PC, PC/ABS		57 x 196mm
686.480.35	4	24V DC	Permanent	Blue, green, yellow, red	ABS, PC, PC/ABS		57 x 236mm
686.590.35	5	24V DC	Permanent	White, blue, green, yellow, red	ABS, PC, PC/ABS		57 x 276mm

Mounting Accessories

	Product Code	Description	Housing Colour	Materials	Dimensions (L x W x H)
	975.840.10	Base with integrated tube	Black	PA-GF	- x - x 110 x 70Ømm
	975.845.10	100mm long aluminium tube with 25mm diameter	Silver	Aluminium	- x - x 100 x 25Ømm
	975.840.25	250mm long aluminium tube with 25mm diameter	Silver	Aluminium	- x - x 37 x 70Ømm
	975.840.90	Base for tube Ø 25mm, plastic	Black	PA-GF	- x - x 100 x 25Ømm
	960.000.14	Bracket for base mounting with concealed cable entry	Black	PC/ABS	99 x 79 x 44mm
	960.000.01	Bracket for tube mounting	Black	PA-GF	88x 70 x 57 x 70Ømm

Pre-configured Signal Tower Tube Mounting | Push-in Terminals (24V)



Features

- Pre-configured signal tower with modern design and ideal visibility.
- Homogeneous illumination and ideal visibility of the illuminated signals.
- The IP66 protection rating enables use in a wide variety of environments.
- Tube mounting variant with cable connection.
- Base with tube included in the scope of delivery.

Product Code	Tier	Voltage	Signal Effect	Light Colour	Materials	Fixing	Dimensions (Ø x H)
686.371.05	3	24V DC (without buzzer)	Permanent	Red, yellow, green	ABS, PC, PC/ABS	Tube mounting	57 x 286mm
686.371.35	3	24V DC (with buzzer)	Permanent	Red, yellow, green	ABS, PC, PC/ABS	Tube mounting	57 x 286mm

Mounting Accessories

	Product Code	Description	Housing Colour	Materials	Dimensions (L x W x H)
	960.000.14	Bracket for base mounting with concealed cable entry	Black	PC/ABS	99 x 79x 44mm
	960.000.01	Bracket for tube mounting	Black	PA-GF	88x 70 x 57 x 70Ømm

LED Installation Beacon MC55 (55MM) + MC35 Series (35MM)



241 LED Multicolour Beacon MC35 (35mm diameter, 64mm height)



Features

- LED buzzer combi with versatile applications
- Compact LED recessed light with continuous light and an attention-grabbing buzzer (80 dB) with 35mm diameter.
- Control is via a pre-assembled M12 connector.
- High safety due to UL approval and IP65/IP69k
- Permanent Signal effect



Product Code	Voltage	Current Usage	Light Colour	Connection	Fixing	Buzzer	IP Rating
241.440.55	24V DC	45mA	Red, yellow, green	M12 plug 5-pole	Built-in mounting	Yes (80 dB)	IP65/69K
241.340.50	10-30V DC	45mA	MC 7 colours	M12 plug 5-pole	Built-in mounting	Yes (80 dB)	IP65/69K
241.420.55	24V DC	20mA	Red, yellow, green	M12 plug 5-pole	Built-in mounting	No	IP65/69K
241.320.50	10-30V DC	30mA	MC 7 colours	M12 plug 5-pole	Built-in mounting	No	IP65/69K

Materials: PC | Housing: Black | Dome: Translucent

240 LED Multicolour Beacon MC55 With Touch Function



Features

- Permanent signal effect
- Display of conditions in the machine housing or on control cabinets
- With the most common colour combination in a single light: red, yellow and green
- Simple feedback to a controller when touched



Product Code	Voltage	Current Usage	Light Colour	Connection	Fixing	Buzzer	Transistor
240.270.55	24V DC	60mA	Red, yellow, green	M12 plug 5-pole	Built-in mounting	Yes 80 dB (A)	NPN
240.290.55	24V DC	60mA	Red, yellow, green	M12 plug 5-pole	Built-in mounting	Yes 80 dB (A)	PNP
240.260.55	24V DC	50mA	Red, yellow, green	M12 plug 5-pole	Built-in mounting	No	NPN
240.280.55	24V DC	50mA	Red, yellow, green	M12 plug 5-pole	Built-in mounting	No	PNP

Materials: PC | Housing: Black | Dome: Translucent

240 LED Multicolour Beacon MC55 With Touch and Configurable Functionality (55mm diameter, 71mm height)



Features

- Functionality programmable with WERMA configuration software
- Display of statuses in machine housing or on control cabinets
- 8 standard colours or individual colour selection
- Configurable time-based escalation
- Easy configuration of push-button or switch



Product Code	Voltage	Current Usage	Light Colour	Connection	Fixing	Buzzer	IP Rating
240.170.55	24V DC	75mA	(Multicolour) Red, yellow, green, white, blue, violet, turquoise	M12 plug 5-pole	Built-in mounting	Yes 85 dB (A)	IP65/69K
240.160.55	24V DC	60mA	(Multicolour) Red, yellow, green, white, blue, violet, turquoise	M12 plug 5-pole	Built-in mounting	No	IP65/69K

Materials: PC | Housing: Black | Dome: Translucent

EvoSIGNAL MIDI (130xØ 85mm)



MIDI Features

- **Modular design:** with versatile mounting options: surface, wall, or tube installation.
- **High protection rating:** IP66/IP69K for use in harsh industrial environments.
- **Optional integrated sounder:** with adjustable volume up to 95 dB and selectable tones.

Mini and Maxi Variants

Please contact us for EvoSIGNAL Mini and Maxi ordering details.

- **MINI:** Compact (Ø62 x 85mm) solution for limited space environments, ideal for small machines and building services with a max sound level of 95 dB. Available in similar light effects as MIDI but designed for tight installations.
- **MAXI:** The long-range option (Ø120 x 173mm) suited for large-scale machinery and outdoor plants, offering the same versatile light effects as MIDI, with a maximum sound level of 110 dB.
- **TwinLIGHT** (Permanent/Blinking), **TwinFLASH** (Flashing/EVS), plus **Rotating Light** for dynamic, attention-grabbing signalling.

MIDI Range Optical

Red			Green			Yellow		
Product Code	Voltage	Light Effect	Product Code	Voltage	Light Effect	Product Code	Voltage	Light Effect
261.110.70	12/24V AC/DC	TwinLIGHT	261.210.70	12/24V AC/DC	TwinLIGHT	261.310.70	12/24V AC/DC	TwinLIGHT
261.120.70	12/24V AC/DC	TwinFLASH	261.220.70	12/24V AC/DC	TwinFLASH	261.320.70	12/24V AC/DC	TwinFLASH
261.140.70	12/24V AC/DC	Rotating	261.240.70	12/24V AC/DC	Rotating	261.340.70	12/24V AC/DC	Rotating
261.110.60	115/230V AC	TwinLIGHT	261.210.60	115/230V AC	TwinLIGHT	261.310.60	115/230V AC	TwinLIGHT
261.120.60	115/230V AC	TwinFLASH	261.220.60	115/230V AC	TwinFLASH	261.320.60	115/230V AC	TwinFLASH
261.140.60	115/230V AC	Rotating	261.240.60	115/230V AC	Rotating	261.340.60	115/230V AC	Rotating
Clear			Blue			TriCOLOUR		
Product Code	Voltage	Light Effect	Product Code	Voltage	Light Effect	Product Code	Voltage	Light Effect
261.410.70	12/24V AC/DC	TwinLIGHT	261.510.70	12/24V AC/DC	TwinLIGHT	261.430.70	12/24V AC/DC	TriCOLOUR
261.420.70	12/24V AC/DC	TwinFLASH	261.520.70	12/24V AC/DC	TwinFLASH	261.430.60	115/23V AC	TriCOLOUR
261.440.70	12/24V AC/DC	Rotating	261.540.70	12/24V AC/DC	Rotating	-	-	-
261.410.60	115/230V AC	TwinLIGHT	261.510.60	115/230V AC	TwinLIGHT	-	-	-
261.420.60	115/230V AC	TwinFLASH	261.520.60	115/230V AC	TwinFLASH	-	-	-
261.440.60	115/230V AC	Rotating	261.540.60	115/230V AC	Rotating	-	-	-

Mounting Adapter sold separately—please ensure it is included in the order.

MIDI Range Optical and Acoustical

Red			Yellow			Green		
Product Code	Voltage	Light Effect	Product Code	Voltage	Light Effect	Product Code	Voltage	Light Effect
461.110.70	12/24V AC/DC	TwinLIGHT	461.210.70	12/24V AC/DC	TwinLIGHT	461.310.70	12/24V AC/DC	TwinLIGHT
461.120.70	12/24V AC/DC	TwinFLASH	461.220.70	12/24V AC/DC	TwinFLASH	461.320.70	12/24V AC/DC	TwinFLASH
461.110.60	115/230V AC	TwinLIGHT	461.210.60	115/230V AC	TwinLIGHT	461.310.60	115/230V AC	TwinLIGHT
461.120.60	115/230V AC	TwinFLASH	461.220.60	115/230V AC	TwinFLASH	461.320.60	115/230V AC	TwinFLASH
Blue			Clear			Audible Only (max. 110 dB)		
Product Code	Voltage	Light Effect	Product Code	Voltage	Light Effect	Product Code	Voltage	Description
461.410.70	12/24V AC/DC	TwinLIGHT	461.510.70	12/24V AC/DC	TwinLIGHT	161.700.70	12/24V AC/DC	Audible Device
461.420.70	12/24V AC/DC	TwinFLASH	461.520.70	12/24V AC/DC	TwinFLASH	161.700.60	115/230V AC	Audible Device
461.410.60	115/230V AC	TwinLIGHT	461.510.60	115/230V AC	TwinLIGHT			
461.420.60	115/230V AC	TwinFLASH	461.520.60	115/230V AC	TwinFLASH			

Mounting Adapter sold separately—please ensure it is included in the order.

MIDI Range Mounting Adapter (Required add-on)

Base Mounting	Base Mounting with Cable gland	Tube Mounting	Bracket Mounting with Cable gland	Bracket Mounting	Horn
					
261.700.01	261.700.02	261.700.05	261.700.06	261.700.07	261.700.03

WeASSIST:



WeASSIST Hardware:



Transceiver (Transmitter)

- 1 transceiver at each machine or workstation
- Can be retrofitted into the modular WERMA signal towers
- 24V signals as status indication
- ISM frequency: 868 or 921 MHz
- Radio range: up to 300 m (free field)
- Repeater function (range up to 900m)
- Communication via radio link to the gateway



Gateway (Receiver)

- 1 transceiver at each machine or workstation
- Can be retrofitted into the modular WERMA signal towers
- 24V signals as status indication
- ISM frequency: 868MHz
- Radio range: up to 300 m (free field)
- Repeater function (range up to 900m)
- Communication via radio link to the gateway



WeASSIST Software:

Cloud (Web-based Software)

- Web-based software - no installation necessary
- Highly customisable user interface
- Location-independent access to the entire solution
- Accessible via any mobile device (internet browser)
- Active push notification in the event of problems, malfunctions, etc.



Transparent production monitoring of machines and manual workstations within one system



process optimisations can be permanently derived from analyses



Quick and easy retrofit solution



Availability of live data anytime and anywhere

WeASSIST APP:



iOS



ANDROID



Cloud (Web-based Software)

- Available APP for the operating systems iOS and Android
- Full range of functions
- Full transparency from any location
- Active push notification in case of problems, malfunctions, etc



WeASSIST: Production & Logistics

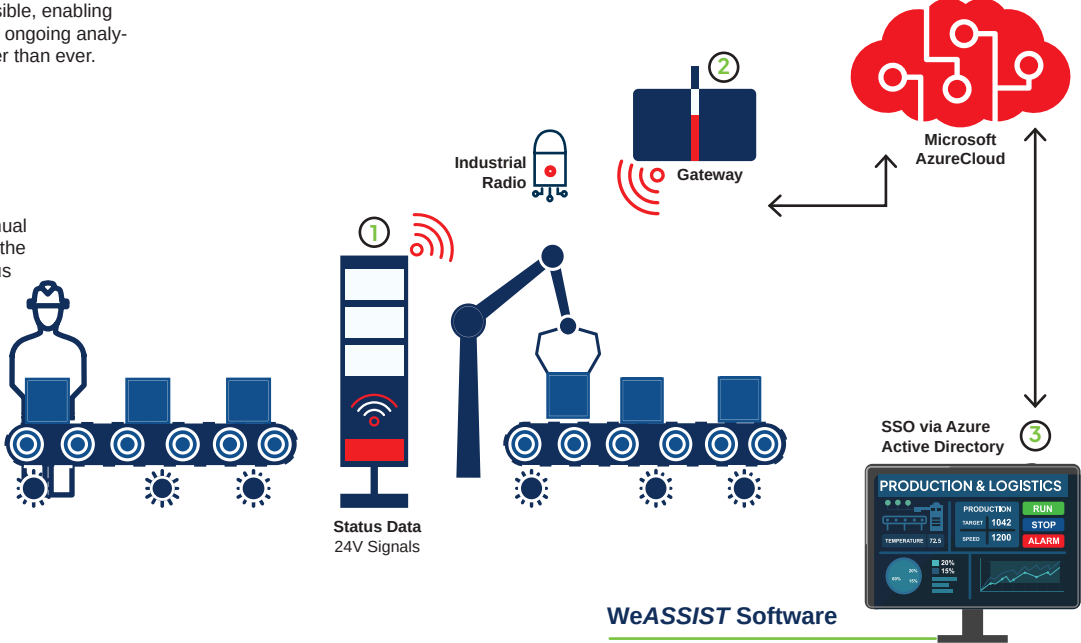
Transceivers and Andon boxes communicate machine and workstation status directly to the software through the gateway. Issues become instantly visible, enabling continuous process optimisation through ongoing analysis – making process improvement easier than ever.

Werma signal towers and WeASSIST transceivers

1 24V signals from machines or manual workstations indicate the status at the signal tower and transmit this status to the gateway via radio using the integrated transceiver.

What you can easily see with WeASSIST:

- Unit numbers
- Faults/errors
- Material replenishment
- Cycle times
- Machine data acquisition
- Determination of key production figures (incl. OEE)



WeASSIST Gateway

2 The gateway receives the status of all transceivers on site via radio and sends them to the WeASSIST software (Microsoft Azure Cloud) via Ethernet.

WeASSIST Software

3 The cloud-based software displays the status of machines and workstations via individual dashboards - easily selectable as a no-code platform. Your production data and analytics can be accessed via any device (browserbased or for mobile devices via iOS and Android app). Active Directory also allows central authentication and authorization to remain in your hands.

WeASSIST/AndonWireless Transceiver868MHz



Mechanical Data						
Product Code	Dimensions Ø x Height	Materials	Housing Colour	Protection Category	Connection	Working Temp (Min. - Max.)
862.000.03	Ø70x66mm	PC	Black	IP65	USB	-20°C - +50°C

Operating Voltage	Operating Voltage Type	Rated Operational Current	Protection Class	Radio Range Max.	Radio Transmission Power	Radio Frequency Min/Max
24 V	DC	60 mA	3	500 m	10 dBm at 50 Ohm	868.000 MHz

WeASSIST Gateway 868MHz



Mechanical Data						
Product Code	Dimensions LxWxH	Materials	Housing Colour	Protection Category	Connection	Type Of Fixing
862.000.01	186 x 115x 50mm	PC	Black / Grey	IP20	Plug-in Connection / RJ45 / USB	Adapter Required / Base Mounting / Special Version / Tube Mounting / Wall Mounting

Electrical Data

Operating Voltage	Operating Voltage Frequency	Operating Voltage Tolerance	Rated Operational Current	Protection Class	Isolation Voltage
115–230 V AC	50 Hz / 60 Hz	±5%	1000 mA	Protection Class 2	Ui = 250 V; Uimp = 2.500 V



Motor Starter Protectors for Motor Protection, Class 10, Screw-Type Connection



Product Code	Size	Setting Range	Power	Rated Current
3RV2011-0GA10	S00	0.45–0.63A	0 .18Kw	0.63A
3RV2011-0JA10	S00	0.7–1A	0.25Kw	1A
3RV2011-0KA10	S00	0.9–1.25A	0.37Kw	1.25A
3RV2011-1AA10	S00	1.1–1.6A	0.55Kw	1.60A
3RV2011-1BA10	S00	1.4–2A	0.75Kw	2A
3RV2011-1DA10	S00	2.2–3.2A	1.1Kw	3.20A
3RV2011-1EA10	S00	2.8–4A	1.5Kw	4A
3RV2011-1GA10	S00	4.5–6.3A	2.2Kw	6.30A
3RV2011-1HA10	S00	5.5–8A	3.0Kw	8A
3RV2011-1JA10	S00	7–10A	4.0Kw	10A
3RV2011-1KA10	S00	9–12.5A	5.5Kw	12.5A
3RV2011-4AA10	S00	10–16A	7.5Kw	16A
3RV2021-4BA10	S0	13–20A	7.5Kw	20A
3RV2021-4DA10	S0	18–25A	11Kw	25A
3RV2021-4EA10	S0	27–32A	15Kw	32A

Motor Starter Protectors for Motor Protection, Class 10, Screw-Type Connection



Product Code	Size	Setting Range	Power	Rated Current
3RV2031-4UA10	S2	32–40A	18.5Kw	40A
3RV2031-4VA10	S2	35–45A	22Kw	45A
3RV2031-4WA10	S2	42–52A	22Kw	52A
3RV2031-4XA10	S2	49–59A	30Kw	59A
3RV2031-4JA10	S2	54–65A	30Kw	65A
3RV2031-4KA10	S2	62–73A	37Kw	73A
3RV2031-4RA10	S2	70–80A	37Kw	80A
3RV2041-4FA10	S3	28–40A	18.5Kw	40A
3RV2041-4HA10	S3	36–50A	22Kw	50A
3RV2041-4JA10	S3	45–63A	30Kw	63A
3RV2041-4KA10	S3	57–75A	37Kw	75A
3RV2041-4YA10	S3	75–93A	45Kw	93A
3RV2041-4MA10	S3	80–100A	45.55Kw	100A

Contactors For Switching Motors, Screw-Type Connection | AC and DC



Product Code	Size	Rated Control Supply Voltage (V)	Auxiliary Contacts	Power
3RT2015-1AP01	S00	230V AC, 50 / 60Hz	1NO	3kW
3RT2015-1BB41	S00	24V DC	1NO	3kW
3RT2016-1AP01	S00	230V AC, 50 / 60Hz	1NO	4kW
3RT2016-1BB41	S00	24V DC	1NO	4kW
3RT2017-1AP01	S00	230V AC, 50Hz	1NO	5.5kW
3RT2017-1BB41	S00	24V DC	1NO	5.5kW
3RT2018-1AP01	S00	230V AC, 50Hz	1NO	7.5kW
3RT2018-1BB41	S00	24V DC	1S / 1NO	7.5kW
3RT2025-1AP00	S0	230V AC, 50Hz	1NO+1NC	7.5kW
3RT2025-1BB40	S0	24V DC	1NO+1NC	7.5kW
3RT2026-1AP00	S0	230V AC, 50Hz	1NO+1NC	11kW
3RT2026-1BB40	S0	24V DC	1NO+1NC	15kW
3RT2027-1AP00	S0	230V AC, 50Hz	1NO+1NC	15kW
3RT2027-1BB40	S0	24V DC	1NO+1NC	15kW
3RT2028-1AP00	S0	230V AC, 50Hz	1NO+1NC	18.5kW
3RT2028-1BB40	S0	24V DC	1NO+1NC	18.5kW

Contactors For Switching Motors, Screw-Type Connection

	Product Code	Size	Rated Control Supply Voltage(V)	Auxiliary Contacts	Power
	3RT2035-1AP00	S2	230V AC, 50 Hz	1NO+1NC	18.5kW
	3RT2035-1KB40*		24V DC / 2A PLC outputs	1NO+1NC	18.5kW
	3RT2036-1AP00	S2	230V AC, 50 Hz	1NO+1NC	22kW
	3RT2036-1KB40*		24V DC / 2A PLC outputs	1NO+1NC	22kW
	3RT2037-1AP00	S2	230V AC, 50 Hz	1NO+1NC	30kW
	3RT2037-1KB40*		24V DC / 2A PLC outputs	1NO+1NC	30kW
	3RT2038-1AP00	S2	230V AC, 50 Hz	1NO+1NC	37kW
	3RT2038-1KB40*		24V DC / 2A PLC outputs	1NO+1NC	37kW
	3RT2045-1AP00	S3	230V AC, 50 Hz	11NO+1NC	37kW
	3RT2045-1KB40*		24V DC / 2A PLC outputs	1NO+1NC	37kW
	3RT2046-1AP00	S3	230V AC, 50 Hz	1NO+1NC	45kW
	3RT2046-1KB40*		24V DC / 2A PLC outputs	1NO+1NC	45kW
	3RT2047-1AP00	S3	230V AC, 50 Hz	1NO+1NC	55kW
	3RT2047-1NB30		20-33V AC / DC	1NO+1NC	55kW
	*with integrated coil circuit (varistor).				

Link modules, screw-type connection | Contactor to Motor Starter

	Product Code	Actuating Voltage Of Contactor	Size	
			Contactors (3RT2)	Motor Starter Protectors (3RV2)
	3RA1921-1DA00	AC / DC	S00	S00 / S0
	3RA2921-1AA00	AC	S0	S00 / S0
	3RA2921-1BA00	DC	S0	S00 / S0
	3RA2931-1AA00	AC / DC	S2	S2
	3RA1941-1AA00	AC / DC	S3	S3

Sirius 3RT2 Auxiliary Switches (Top Mount) for AC and DC contactors

	Product Code	Description	Contacts
	3RH2911-1HA11	Aux.switch block, front, curr.path: 1NC, 1NO, F. Cont. Relays A. motor cont., 3RT2 screw terminal .1 / .2, .3 / .4	1NO+1NC
	3RH2911-1HA22	Aux.switch block, front, curr.path: 1NC, 1NC, 1NO, 1NO, F. Cont. Relays A. motor cont., 3RT2 screw terminal .1 / .2,.1 / .2, .3 / .4, .3 / .4	2NO+2NC
	3RH2911-1HA13	Aux.switch block, front, curr.path: 1NC, 1NC, 1NC, 1NO, F. Cont. Relays A. motor cont., 3RT2 screw terminal .1 / .2, .1 / .2, .1 / .2, .3 / .4	1NO+3NC
	3RH2911-1HA31	Aux.switch block, front, curr.path: 1NC, 1NO, 1NO, 1NO, F. Cont. Relays A. motor cont., 3RT2 screw terminal .1 / .2, .3 / .4, .3 / .4, .3 / .4	3NO+1NC
	3RH2911-1FA40	Aux.switch block, front, curr.path: 1NO, 1NO, 1NO, 1NO, F. Cont. Relays A. motor cont., 3RT2 screw terminal .3 / .4,.3 / .4, .3 / .4, .3 / .4	4NO

Sirius 3RT2 (Lateral Auxiliary) for AC and DC Contactors

	Product Code	Description	Contacts
	3RH2911-1DA02	Lateral aux.switch block, side, curr.path: 1NC, 1NC, for motor contactors, SZ S00, screw terminal R: 21/22, 31/32 L: 41/42, 51/52	2NC
	3RH2911-1DA11	Lateral aux.switch block, side, curr.path: 1NC, 1NO, for motor contactors, SZ S00, screw terminal R: 21/22, 33/34 L: 41/42, 53/54	1NO+1NC
	3RH2911-1DA20	Lateral aux.switch block, side, curr.path: 1NO, 1NO, for motor contactors, SZ S00, Screw Terminal R: 23/24, 33/34 L :43/44, 53/54	2NO
	3RH2921-1DA02	Lateral aux.switch block, side, curr.path: 1NC, 1NC, for motor contactors, SZ S0-S3 screw terminal R: 31/32, 41/42 L: 51/52, 61/62	2NC
	3RH2921-1DA11	Lateral aux.switch block, side, curr.path: 1NC, 1NO, for motor contactors, SZ S0-S3 screw terminal R: 31/32, 43/44 L: 51/52, 63/64	1NO+1NC
	3RH2921-1DA20	Lateral aux.switch block, side, curr.path: 1NO, 1NO, for motor contactors, SZ S0-S3 screw terminal R: 33/34, 43/44 L: 53/54, 63/64	2NO

Accessories motor starter protector 3RV2

	Product Code	Description
	3RV2901-1E	Transverse auxiliary switch, 1NO+1NC, screw-type connection (S00, S0, S2, S3)
	3RV2901-1A	Lateral auxiliary switch, 1NO+1NC, screw-type connection (S00, S0, S2, S3)

Overload Relay (Thermal) For Mounting Onto Contactors, Class 10, Screw-Type Connection

	Product Code	Size	Setting Range (A)
	3RU2116-0GB0	S00	0.45–0.63A
	3RU2116-0JB0	S00	0.7–1A
	3RU2116-0KB0	S00	0.9–1.25A
	3RU2116-1AB0	S00	1.1–1.6A
	3RU2116-1BB0	S00	1.4–2A
	3RU2116-1DB0	S00	2.2–3.2A
	3RU2116-1EB0	S00	2.8–4A
	3RU2116-1GB0	S00	4.5–6.3A
	3RU2116-1HB0	S00	5.5–8A
	3RU2116-1JB0	S00	7–10A
	3RU2116-1KB0	S00	9–12.5A
	3RU2116-4AB0	S00	11–16A
	3RU2126-4BB0	S0	14–20A
	3RU2126-4DB0	S0	20–25A
	3RU2126-4EB0	S0	27–32A
	3RU2126-4FB0	S0	34–40A

Overload Relay (Thermal) For Mounting Onto Contactors, Class 10E, Screw-Type Connection

	Product Code	Size	Setting Range (A)
	3RU2136-4FB0	S2	28–40A
	3RU2136-4GB0	S2	36–45A
	3RU2136-4HB0	S2	40–50A
	3RU2136-4QB0	S2	47–57A
	3RU2136-4JB0	S2	54–65A
	3RU2136-4KB0	S2	62–73
	3RU2136-4RB0	S2	70–80A
	3RU2146-4KB0	S3	57–75A
	3RU2146-4LB0	S3	70–90A
	3RU2146-4MB0	S3	80–100A



Accessories Overload Relays, Screw-Type Connection | Overload stand alone bracket

	Product Code	Description
	3RU2916-3AA01	Terminal supports for stand-alone installation, Size S00
	3RU2926-3AA01	Terminal supports for stand-alone installation, Size S0
	3RU2936-3AA01	Terminal supports for stand-alone installation, Size S2
	3RU2946-3AA01	Terminal supports for stand-alone installation, Size S3

Contactor Relays S00, Screw-Type Connection | AC and DC

	Product Code	Description
	3RH2140-1AP00	Contactor relay 4NO, 230V AC, 50 / 60Hz
	3RH2140-1BB40	Contactor relay 4NO, 24V DC
	3RH2131-1AP00	Contactor relay 3NO + 1NC, 230V AC, 50 / 60Hz
	3RH2131-1BB40	Contactor relay 3NO + 1NC, 24V DC
	3RH2122-1AP00	Contactor relay 2NO + 2NC, 230V AC, 50 / 60Hz
	3RH2122-1BB40	Contactor relay 2NO + 2NC, 24V DC

Accessories Contactors, Contactor Relays, Screw-Type Connection

	Product Code	Description
	3RH2911-1FA40	Auxiliary switch block, 4NO, size S00, S0, S2, S3
	3RH2911-1HA22	Auxiliary switch block 2NO+2NC, size S00, S0, S2, S3
	3RH2911-1HA11	Auxiliary switch block, 1NO+1NC, size S00, S0, S2, S3
	3RH2911-1HA20	Auxiliary switch block, 2NO, size S00, S0, S2, S3

Pilot Lights | Heads Only

	Product Code	Colour	Description	Lights	Material
	3SU1051-6AA20-0AA0	●	Indicator lights with smooth lens, with integrated LED AC / DC 24 V	Yes	Metal
	3SU1051-6AA40-0AA0	●	Indicator lights with smooth lens, with integrated LED AC / DC 24 V	Yes	Metal
	3SU1051-6AA60-0AA0	○	Indicator lights with smooth lens, with integrated LED AC / DC 24 V	Yes	Metal

Emergency Stops Enclosed

	Product Code	Description	Lights	Material
	3SU1801-0NA00-2AC2	EMERGENCY-STOP mushroom pushbuttons, red, Ø 40mm, with yellow top part, with protective collar, 1NC	No	Plastic
	3SU1801-0NA00-2AA2	EMERGENCY-STOP mushroom pushbuttons, red, Ø 40mm, with yellow top part, without protective collar, 1NC	No	Plastic
	3SU1801-0NB00-2AC2	EMERGENCY-STOP mushroom pushbuttons, red, Ø 40mm, with yellow top part, with protective collar, 2NC	No	Plastic
	3SU1801-2NG00-2AA2	Palm push button, red, yellow enclosure top, 1NC+1NO with positive	No	Plastic
	3SU1801-2GA00-2AA1	Palm push button, black, grey enclosure top, 1NO momentary-contact type	No	Plastic

Pushbuttons 20mm (only)

Please order the holder separately and contact blocks

	Product Code	Colour	Description	Holder	Light	Material
	3SU1050-0AB10-0AA0	●	Pushbutton with flat button, momentary contact type, without release.	No	No	Metal
	3SU1050-0AB20-0AA0	●	Pushbutton with flat button, momentary contact type, without release.	No	No	Metal
	3SU1050-0AB40-0AA0	●	Pushbutton with flat button, momentary contact type, without release.	No	No	Metal
	3SU1050-0AB50-0AA0	●	Pushbutton with flat button, momentary contact type, without release.	No	No	Metal
	3SU1050-0AB60-0AA0	○	Pushbutton with flat button, momentary contact type, without release.	No	No	Metal
	3SU1050-0AB70-0AA0	○	Pushbutton with flat button, momentary contact type, without release.	No	No	Metal
	3SU1051-0AB20-0AA0	●	Illuminated pushbutton with flat button, momentary contact type.	No	Yes	Metal
	3SU1051-0AB30-0AA0	●	Illuminated pushbutton with flat button, momentary contact type.	No	Yes	Metal
	3SU1051-0AB40-0AA0	●	Illuminated pushbutton with flat button, momentary contact type.	No	Yes	Metal
	3SU1051-0AB50-0AA0	●	Illuminated pushbutton with flat button, momentary contact type.	No	Yes	Metal
	3SU1051-0AB60-0AA0	○	Illuminated pushbutton with flat button, momentary contact type.	No	Yes	Metal
	3SU1051-0AB70-0AA0	○	Illuminated pushbutton with flat button, momentary contact type.	No	Yes	Metal
	3SU1051-3AB42-0AK0	-	Twin pushbuttons, flat, flat illuminated, momentary contact type ● green: I ● red: 0	No	Yes	Metal

Mushroom Pushbutton 40mm (only)

	Product Code	Colour	Description	Light	Material
	3SU1050-1BD10-0AA0	●	Momentary contact type, without release.	No	Metal
	3SU1050-1BA20-0AA0	●	Latching, with pull-to-unlatch mechanism.	No	Metal
	3SU1050-1BD10-0AA0	●	Momentary contact type, without release.	No	Metal
	3SU1050-1BA20-0AA0	●	Latching, with pull-to-unlatch mechanism.	No	Metal

E-STOP Mushroom Pushbutton (only)

	Product Code	Description	Holder	Material
	3SU1050-1HB20-0AA0	With rotate-to-unlatch mechanism Ø 40mm	No	Metal
	3SU1050-1HF20-0AA0	With lock RONIS SB30	No	Metal

Selector Switches With Short Black ACtuator (only)

	Product Code	Switch Position	Description	Material
	3SU1052-2BF60-0AA0		2 switch positions, latching (90°)	Metal
	3SU1052-2BC60-0AA0		2 switch positions, momentary contact type (45°), Spring return	Metal
	3SU1052-2BL60-0AA0		3 switch positions, latching (2x45°), Spring return to center	Metal
	3SU1052-2BM60-0AA0		3 switch positions, momentary contact type (2x45°)	Metal
Can be illuminated.				



Key-operated Switches

	Product Code	Switch Position	Description	Material
	3SU1050-4BC01-0AA0		2 switch positions, momentary contact type, 45°, key removal 0 (RONIS, SB30), spring return	Metal
	3SU1050-4BF11-0AA0		2 switch positions, latching, 90°, key removal 0+I (RONIS, SB30)	Metal
	3SU1050-5BF11-0AA0		2 switch positions, latching, 90°, key removal 0+I (CES, SSG10)	Metal
	3SU1050-5BF01-0AA0		2 switch positions, latching, 90°, key removal 0 (CES, SSG10)	Metal
	3SU1050-5BL11-0AA0		3 switch positions, latching, 2x45°, key removal 0+I+II (CES, SSG10)	Metal

SIRIUS ACT Accessories | Bezel

	Product Code	Description	Holder	Contact Block	Material
	3SU1550-0AA10-0AA0	3-way holder without module / bezel	Yes	No	Metal

Contact Blocks, Screw-Type Terminals For Front Plate Mounting

	Product Code	Description	Contacts
	3SU1400-1AA10-1BA0	Mounting depth 50mm	1NO
	3SU1400-1AA10-1CA0	Mounting depth 50mm	1NC

Led-Module For Front Plate Mounting Depth 50mm

	Product Code	Colour	Description
	3SU1401-1BB20-1AA0	●	LED AC / DC 24V, screw-type terminals
	3SU1401-1BB30-1AA0	●	LED AC / DC 24V, screw-type terminals
	3SU1401-1BB40-1AA0	●	LED AC / DC 24V, screw-type terminals
	3SU1401-1BB60-1AA0	○	LED AC / DC 24V, screw-type terminals
	3SU1401-1BF20-1AA0	●	LED AC 230V, screw-type terminals
	3SU1401-1BF30-1AA0	●	LED AC 230V, screw-type terminals
	3SU1401-1BF40-1AA0	●	LED AC 230V, screw-type terminals
	3SU1401-1BF60-1AA0	○	LED AC 230V, screw-type terminals

DIN Mount Circuit Breakers

	Product Code	Rated Current	Pole	Trip Curve
	5SY6106-7	6A	1-P	Characteristic C
	5SY6110-7	10A	1-P	Characteristic C
	5SY6116-7	16A	1-P	Characteristic C
	5SY6120-7	20A	1-P	Characteristic C
	5SY6125-7	25A	1-P	Characteristic C
	5SY6132-7	32A	1-P	Characteristic C
	5SY6140-7	40A	1-P	Characteristic C
	5SY6163-7	63A	1-P	Characteristic C
	5SY6206-7	6A	2-P	Characteristic C
	5SY6210-7	10A	2-P	Characteristic C
	5SY6216-7	16A	2-P	Characteristic C
	5SY6220-7	20A	2-P	Characteristic C
	5SY6225-7	25A	2-P	Characteristic C
	5SY6232-7	32A	2-P	Characteristic C
	5SY6240-7	40A	2-P	Characteristic C
	5SY6263-7	63A	2-P	Characteristic C
	5SY6306-7	6A	3-P	Characteristic C
	5SY6310-7	10A	3-P	Characteristic C
	5SY6316-7	16A	3-P	Characteristic C
	5SY6320-7	20A	3-P	Characteristic C
	5SY6325-7	25A	3-P	Characteristic C
	5SY6332-7	32A	3-P	Characteristic C
	5SY6340-7	40A	3-P	Characteristic C
	5SY6363-7	63A	3-P	Characteristic C
Miniature Circuit Breaker 5SY4, breaking capability 10000 A; standards (EN 60898-1, EN 947-2, UL1077,CSA22.2, GB10963.1/.2)				

Residual Current Circuit Breakers RCCBS (Earth Leakages)

	Product Code		Description	
	5SV3316-6		RCCB, 2-pole, type AC, In: 63A, 30mA, Un AC: 230V, Earth leakage	
	5SV3346-6		RCCB, 4-pole, type AC, In: 63A, 30mA, Un AC: 400V, Earth leakage	

Accessories for Miniature DIN Circuit Breakers

	Product Code		Description	
	5SW3300		Auxillary (1NO + NC), 16–18Amps	



SITOP Power Supply | Power Supply for Demanding Solutions | 3-phase



Product Code	Output Voltage / Current	Input Rated Voltage	Dimensions (h x w x d)
6EP1334-3BA10	DC 24 V / 10 A, PSU200M	1/2 AC 120 – 230 / 230 – 500 V (AC 85 ... 264 / 176 ... 550 V)	70 x 125 x 121mm
6EP3436-8SB00-0AY0	DC 24 V / 20 A, PSU8200	3 AC 400 – 500 V (3 AC 320 ... 575 V)	70 x 125 x 125mm
6EP3437-8SB00-0AY0	DC 24 V / 40 A, PSU8200		135 x 145 x 150mm

SITOP PSU4200 – Fresh Power for your basic applications | Single Phase



Product Code	Output Voltage / Current	Input Rated Voltage	Dimensions
6EP3332-3SB00-0AX0	DC 24 V / 3A	100–120V AC or 200–240V AC (1-phase, automatic range selection)	50 x 135 x 125mm
6EP3333-3SB00-0AX0	DC 24 V (adjustable 24–28 V)/A		50 x 135 x 125mm
6EP3334-3SB00-0AX0	DC 24 V / 10A	120 / 240 V AC (range: 85 – 264 V AC)	70 x 135 x 125mm
6EP3336-3SB00-0AX0	DC 24 V / 20A		70 x 135 x 125mm

SIMATIC S7-1200 | Micro-SPS / Micro PLC

CPU



Product Code	Description
6ES7211-1BE40-0XB0	CPU 1211C AC / DC / Rly V4.2
6ES7211-1AE40-0XB0	CPU 1211C DC / DC / DC V4.2
6ES7211-1HE40-0XB0	CPU 1211C DC / DC / Rly V4.2
6ES7212-1BE40-0XB0	CPU 1212C AC / DC / Rly V4.2
6ES7212-1AE40-0XB0	CPU 1212C DC / DC / DC V4.2
6ES7212-1HE40-0XB0	CPU 1212C DC / DC / Rly V4.2
6ES7214-1BG40-0XB0	CPU 1214C AC / DC / Rly V4.2
6ES7214-1AG40-0XB0	CPU 1214C DC / DC / DC V4.2
6ES7214-1HG40-0XB0	CPU 1214C DC / DC / Rly V4.2
6ES7215-1BG40-0XB0	CPU 1215C AC / DC / Rly V4.2
6ES7215-1AG40-0XB0	CPU 1215C DC / DC / DC V4.2
6ES7215-1HG40-0XB0	CPU 1215C DC / DC / Rly V4.2
6ES7217-1AG40-0XB0	CPU 1217C DC / DC / DC V4.2

Expansion modules digital



Product Code	Description
6ES7221-1BF32-0XB0	Input module 8x DC
6ES7221-1BH32-0XB0	Input module 16x DC
6ES7222-1BF32-0XB0	Output module 8x DC
6ES7222-1BH32-0XB0	Output module 16x DC
6ES7222-1HF32-0XB0	Output module 8x Rly
6ES7222-1HH32-0XB0	Output module 16x Rly
6ES7223-1BH32-0XB0	In-/Output module 8x DI / 8x DO
6ES7223-1BL32-0XB0	In-/Output module 16x DI / 16x DO
6ES7223-1PH32-0XB0	In-/Output module 8x DI / 8x DO Rly
6ES7223-1PL32-0XB0	In-/Output module 16x DI / 16x DO Rly

Expansion Modules Analogue



Product Code	Description
6ES7231-4HD32-0XB0	Analogue Input module 4x AI 13 Bit
6ES7231-5ND32-0XB0	Analogue Input module 4x AI 16 Bit
6ES7231-4HF32-0XB0	Analogue Input module 8x AI 13 Bit
6ES7231-5PD32-0XB0	Analogue Input module 4x AI RTD 16 Bit
6ES7231-5PF32-0XB0	Analogue Input module 8x AI RTD 16 Bit
6ES7231-5QD32-0XB0	Analogue Input module 4x AI TC 16 Bit
6ES7231-5QF32-0XB0	Analogue Input module 8x AI TC 16 Bit
6ES7232-4HB32-0XB0	Analogue Output module 2x AO 14 Bit
6ES7232-4HD32-0XB0	Analogue Output module 4x AO 14 Bit
6ES7234-4HE32-0XB0	Analogue In-/Output module 4x AI 13 Bit / 2x AO 14 Bit
6ES7238-5XA32-0XB0	E Energy Meter 480V AC

SIMATIC S7-1200 | Micro-SPS / Micro PLC



Communication	
Product Code	Description
6GK7277-1AA10-0AA0	4 Port RJ-45 Ethernet Switch
6GK7243-5DX30-0XE0	Communication module PROFIBUS Master
6GK7242-5DX30-0XE0	Communication module PROFIBUS Slave

Expansion modules – Signal Boards



Product Code	Description
6ES7221-3AD30-0XB0	Input module 4x DI 5V DC 200kHz
6ES7221-3BD30-0XB0	Input module 4x DI 24V DC 200kHz
6ES7222-1AD30-0XB0	Output module 4x DO 5V 200kHz
6ES7222-1BD30-0XB0	Output module 4x DO 24V 200kHz
6ES7223-0BD30-0XB0	In-/Output module 2x DI / 2x DO
6ES7223-3AD30-0XB0	In-/Output module 2x DI / 2x DO 5V 200kHz
6ES7223-3BD30-0XB0	In-/Output module 2x DI / 2xDO 24V DC 200kHz
6ES7231-4HA30-0XB0	Analogue Input module 1x AI 12 Bit $\pm 10V$, $\pm 5V$, ± 2.5 oder / or 0 bis 20mA
6ES7231-5PA30-0XB0	Analogue Input module 1x AI RTD
6ES7231-5QA30-0XB0	Analogue Input module 1x AI TC
6ES7232-4HA30-0XB0	Analogue Output module 1x AO 12 Bit $\pm 10V$ oder / or 0 bis 20mA

Accessories



Product Code	Description
6ES7274-1XH30-0XA0	1214C / 1215C Simulator
6ES7274-1XF30-0XA0	1211C / 1212C Simulator
6ES7954-8LC03-0AA0	SIMATIC Memory Card 4MB
6ES7954-8LE03-0AA0	SIMATIC Memory Card 12MB
6ES7954-8LF03-0AA0	SIMATIC Memory Card 24MB
6ES7297-0AX30-0XA0	Signal Board Battery module (long-time protection real-time clock, battery CR1025 not included)
6EP1 332-1SH71	Power Module 2.5Amp
6ES7290-6AA30-0XA0	Expansion cable for signal module, 2m

Software



Product Code	Description
6ES7822-0AA05-0YA5	SIMATIC STEP7 Basic V15
6ES7822-0AA05-0YE5	Upgrade SIMATIC STEP 7 Basic V11 ... V14 → V15 Floating License

Starter Kits



Product Code	Description
6ES7212-1BD34-4YB0	CPU 1212C AC / DC / Rly + Step7 Basic
6AV6651-7HA01-3AA4	CPU 1212C AC / DC / Rly + HMI KP300, Step7 Basic
6AV6651-7KA01-3AA4	CPU 1212C AC / DC / Rly + HMI KTP400, Step7 Basic
6AV6651-7DA01-3AA4	CPU 1212C AC / Rly + HMI KTP700, Step7 Basic



SIMATIC HMI | Micro-Panels



Key Panel

Product Code	Description
6AV3688-3AY36-0AX0	KP8 PN, 8 short stroked keys with multi-colour keys, profinet interface, 24V DC , DI & DO pins.



Basic Panels

Product Code	Description
6AV6647-0AH11-3AX1	SIMATIC HMI KP300 Basic, 3" B/W LCD, PROFINET, configurable
6AV2123-2DB03-0AX0	KTP400 Basic color PN, key touch, 4" 65536 colour panel, HMI.
6AV2123-2GB03-0AX0	KTP700 Basic color PN, key operation, 7" 65536 colour panel, profinet interface.
6AV2123-2JB03-0AX0	KTP900 Basic color PN, key operation, 9" 65536 colour panel, profinet interface.
6AV2123-2MB03-0AX0	KP1200 Basic, 12" touch panel, key touch.

Contain open source software(included free, enclosed CD).



Software

Product Code	Description
6AV2100-0AA06-0AA5	SIMATIC WinCC Basic V16
6AV2102-0AA06-0AA5	WinCC Advanced software License (Floating)

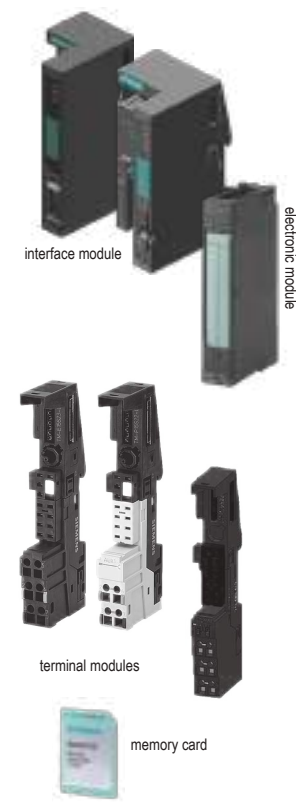
SIMATIC NET | Industrial Ethernet Fast Connect cables with plugs 4 x 2



Product Code	Description
6XV1878-2A	Standard Cable GP / Ethernet cable
6XV1878-2B	Flexible Cable GP / Ethernet cable
6GK1901-1BB12-2AA0	RJ45 Plug
6GK1901-0DB30-6AA0	M12 Plug PRO

Sold by the meter or in 10 000 drums.

ET200s



interface module

electronic module

terminal modules

memory card

Product Code	Description
6ES7151-1AA06-0AB0	Simatic DP, interface module IM151-1Standard For ET200s
6ES7151-3AA23-0AB0	Simatic DP, interface module, IM151-3 PN St For ET200s
6ES7131-4BF00-0AA0	Simatic DP, electronic module, for ET 200S, 8 DI DC 24V 15mm width, 1 piece per packaging unit
6ES7132-4BF00-0AA0	Simatic DP, electronic module for ET 200S, 8 DO DC 24V/0,5A, 15mm width, 1 piece per packaging unit
6ES7134-4FB01-0AB0	Simatic DP, electronic module for ET 200S, 2 Ai standard +/-10V; 13 Bit + Sign, +/-5V; 12 Bit+ Sign, 1-5V; 12Bit
6ES7135-4FB01-0AB0	Simatic DP, electronic module For ET 200S, 2 AO U, +/-10V; 13 bit + sign, 1-5V; 12Bit
6ES7138-4CA01-0AA0	Simatic DP, power module PM-E for ET 200S; 24V DC , with diagnosis
6ES7193-4CB00-0AA0	Simatic DP, 5 terminal modules, TM-E15s23-01 For ET 200S for Electronic modules, screw-type terminals, 5 pieces per packaging unit
6ES7193-4CB20-0AA0	Simatic DP, 5 terminal modules TM-E15s24-01 for ET 200S for electronic modules, screw-type terminals, 5 pieces per packaging unit
6ES7193-4CC20-1AA0	Simatic DP, 5 terminal modules, Tm-P15s23-A1 For ET 200S for power modules, screw-type terminals, 5 pieces per packaging unit
6ES7953-8LJ30-0AA0	Simatic S7, micro memory card, F. S7-300/C7/ET 200, 3.3V Nflash, 512Kb

ET200s



ET200SP CPU	
Product Code	Description
6ES7510-1DJ01-0AB0	SIMATIC DP, CPU 1510SP-1 PN for ET 200SP, Central processing unit with Work memory 100 KB for program and 750 KB for data, 1st interface: PROFINET IRT with 3-port switch, 72 ns bit performance, SIMATIC Memory Card required, BusAdapter required for Port 1 and 2
6ES7512-1DK01-0AB0	SIMATIC DP, CPU 1512SP-1 PN for ET 200SP, Central processing unit with Work memory 200 KB for program and 1 MB for data, 1st interface: PROFINET IRT with 3-port switch, 48 ns bit performance, SIMATIC Memory Card required, BusAdapter required for Port 1 and 2
6ES7193-6BP00-0BA0	SIMATIC ET 200SP, BaseUnit BU15-P16+A0+2B, BU type A0, Push-in terminals, without AUX terminals, bridged to the left, WxH: 15x 117mm
6ES7193-6BP00-0DA0	SIMATIC ET 200SP, BaseUnit BU15-P16+A0+2D, BU type A0, Push-in terminals, without AUX terminals, New load group, WxH: 15x 117mm

Digital IO	
Product Code	Description
6ES7131-6BF01-0BA0	SIMATIC ET 200SP, Digital input module, DI 8x 24V DC Standard, type 3 (IEC 61131), sink input, (PNP, P-reading), Packing unit: 1 piece, fits to BU-type A0, Colour Code CC01, input delay time 0.05–20ms, module diagnostics for: short-circuit of sensor supply, wire break, supply voltage
6ES7131-6BH01-0BA0	SIMATIC ET 200SP, Digital input module, DI 16x 24V DC Standard, type 3 (IEC 61131), sink input, (PNP, P-reading), Packing unit: 1 Piece, fits to BU-type A0, Colour Code CC00, input delay time 0.05–20ms, diagnostics wire break, diagnostics supply voltage
6ES7132-6BF01-0BA0	SIMATIC ET 200SP, Digital output module, DQ 8x 24V DC / 0.5A Standard, Source output (PNP,P-switching) Packing unit: 1 piece, fits to BU-type A0, Colour Code CC02, substitute value output, module diagnostics for: short-circuit to L+ and ground, wire break, supply voltage
6ES7132-6BH01-0BA0	SIMATIC ET 200SP, Digital output module, DQ 16x 24V DC / 0.5A Standard, Source output (PNP,P-switching) Packing unit: 1 piece, fits to BU-type A0, Colour Code CC00, substitute value output, module diagnostics for: short-circuit to L+ and ground, wire break, supply voltage

Analogue IO	
Product Code	Description
6ES7134-6HB00-0DA1	SIMATIC ET 200SP, Analogue input module, AI 2x U/I 2-4-wire High Speed, suitable for BU type A0, A1, Color code CC00, channel diagnostics, 16 bit, +/-0.3%
6ES7135-6HD00-0BA1	SIMATIC ET 200SP, Analogue output module, AQ 4XU/I Standard, suitable for BU type A0, A1, Color code CC00, Module diagnostics, 16 bit, +/-0.3%

Adapters and Memory Card	
Product Code	Description
6ES7193-6AR00-0AA0	SIMATIC ET 200SP, Bus Adapter BA 2x RJ45, 2 RJ45 sockets for PROFINET
6ES7137-6AA00-0BA0	SIMATIC ET 200SP, CM PTP communication module for serial connection RS422, RS485 and RS232, Freeport, 3964 (R), USS, MODBUS RTU Master, Slave, 115200 Kbit/s
6ES7954-8LE03-0AA0	SIMATIC S7, memory card for S7-1X00 CPU/SINAMICS, 3.3V FLASH, 12MB



SIMATIC S7-1500 (PLC)



S7 - 1500 Communication

Product Code	Description
6GK7543-1AX00-0XE0	CP 1543-1, Ethernet security. CP 1543-1 communications processor
6GK7542-1AX00-0EX0	CM 1542-1, PROFINET communication module



S7 - 1500 CPU'S

Product Code	Description
6ES7511-1AK00-0AB0	CPU 1511-1 PN
6ES7513-1AL00-0AB0	CPU 1513-1 PN
6ES7515-2AM00-0AB0	CPU 1515-2 PN
6ES7516-3AN00-0AB0	CPU 1516-3 PN/DP
6ES7518-4AP00-0AB0	CPU 1518-4 PN/DP
6ES7516-3FN00-0AB0	CPU 1516-3F PN/DP - Failsafe CPUs
6ES7518-4FP00-0AB0	CPU 1518-4F PN/DP - Failsafe CPUs
6ES7155-5AA00-0AB0	PROFINET
6ES7155-5AA00-0AC0	IM 155-5 PN ST
6ES7155-5BA00-0AB0	PROFIBUS IM 155-5 DP ST



S7 - 1500 IO Modules - 35-mm Wide Modules (Without Front Connector)

Product Code	Description
6ES7521-1BH00-0AB0	DI 16x 24V DC HF
6ES7521-1BL00-0AB0	DI 32x 24V DC HF
6ES7521-1BH50-0AA0	DI 16x 24V DC SRC BA
6ES7521-1FH00-0AA0	DI 16x 230V AC BA
6ES7522-1BH00-0AB0	DQ 16x 24V DC /0.5 A ST



S7 - 1500 IO Modules - 25mm Wide Modules (Incl. Front Connector)

Product Code	Description
6ES7521-1BH10-0AA0	DI 16x 24V DC BA
6ES7521-1BL10-0AA0	DI 32x 24V DC BA
6ES7522-1BH10-0AA0	DQ 16x 24V DC /0.5 A ST
6ES7522-1BL10-0AA0	DQ 32x 24V DC /0.5 A ST
6ES7523-1BL00-0AA0	DI 16x 24V DC /DQ 16x24V DC /0.5 A BA
6ES7531-7QD00-0AB0	AI 4x U/I/RTD/TC ST
6ES7532-5NB00-0AB0	AQ 2x U/I ST
6ES7534-7QE00-0AB0	AI/AQ 4x U/I/RTD/TC / 2x U/I ST



S7 - 1500 Software

Product Code	Description
6ES7822-1AA04-0YA5	SIMATIC step 7 professional V15, DVD
6ES7822-1AE04-0YA5	SIMATIC step 7 professional V15, Download
6AV2101-0AA04-0AA5	SIMATIC WinCC COMFORT V15, DVD
6AV2101-0AA04-0AH5	SIMATIC WinCC COMFORT V15, Download
6ES7833-1FA14-0YA5	SIMATIC STEP 7 safety advanced V15, DVD
6ES7833-1FA14-0YH5	SIMATIC STEP 7 safety advanced V15, Download



S7-1500 Starter Kits

Product Code	Description
6ES7511-1CK02-4YB5	SIMATIC S7-1500, starter kit, consisting of: CPU 1511C-1 PN, power supply PM1507, 24V / 3A, mounting rail 160mm, SIMATIC Memory Card, 4MB, Ethernet cable, STEP 7 V15 Professional Trial 365-day license, SIMATIC ProDiag S7-1500, SIMATIC OPC UA S7-1500 Small, Information material,

SIMATIC S7-1500 (PLC)



S7-1500 Communication

Product Code	Description	
6ES7540-1AD00-0AA0	CM PtP, RS232 BA	Communication modules for point-to-point or multi-point communication with the protocols Freeport, 3964(R), Modbus RTU, or USS protocol. Transmission rates of up to 115.2 kbit/s are supported.
6ES7540-1AD00-0AB0	CM PtP, RS232 HF	
6ES7541-1AB00-0AA0	CM PtP, RS422/485 BA	
6ES7541-1AB00-0AB0	CM PtP, RS422/485 HF	
6GK7542-5DX00-0XE0	CM 1542-5, PB DP master (PROFIBUS)-The communication module CM 1542-5 extends the SIMATIC S7-1500 control with a PROFIBUS connection for communication with secondary PROFIBUS devices in bandwidths of 9.6 kbit/s to 12 Mbit/s. The CM 1542-5 takes over all communication tasks and offloads the CPU.	
6GK7542-5FX00-0XE0	CP 1542-5, communications processor (PROFIBUS)-The CP 1542-5 communications processor is a cost-efficient PROFIBUS module for expanding SIMATIC S7-1500s without an integrated PROFIBUS interface. It is especially suited for the integration of smaller PROFIBUS networks.	



S7-1500 Counter Modules

Product Code	Description
6ES7550-1AA00-0AB0	TM Count 2x 24V
6ES7551-1AB00-0AB0	TM PosInput2
Modules for counter functions up to 200kHz or 1 MHz, with measuring functions for frequency, period duration or speed, for position detection with incremental or absolute encoders.	



S7-1500 Accessories And Spare Parts

Product Code	Description
6ES7590-1AB60-0AA0	Mounting rail, 160mm (with drill hole)
6ES7590-1AE80-0AA0	Mounting rail, 482mm (with drill hole)
6ES7590-1AF30-0AA0	Mounting rail, 530mm (with drill hole)
6ES7590-1AJ30-0AA0	Mounting rail, 830mm (with drill hole)
6ES7590-1BC00-0AA0	Mounting rail, 2000mm (without drill hole) for self-customizing
6ES7590-5AA00-0AA0	PE connection element for mounting rail 2000mm (spare part), 20 pcs.
6ES7592-1AM00-0XB0	Front connector for 35mm wide modules; screw terminal, 40-pin
6ES7592-1BM00-0XB0	Front connector for 35mm wide modules; push-in terminal, 40-pin
6ES7954-8LC02-0AA0	SIMATIC Memory Card 4MB
6ES7954-8LE02-0AA0	SIMATIC Memory Card 12MB
6ES7954-8LF02-0AA0	SIMATIC Memory Card 24MB
6ES7954-8LL02-0AA0	SIMATIC Memory Card 256MB
6ES7954-8LP01-0AA0	SIMATIC Memory Card 2GB
6ES7591-8AA00-0AA0	Front cover for DP interface of the CPU 1518-4 PN/DP, 1 unit



S7-1500 Spare Parts - 35mm Wide Modules

Product Code	Description
6ES7591-1AA00-0AA0	Display for CPU 1511/13
6ES7591-1BA00-0AA0	Display for CPU 1515, 1516, and 1518
6ES7528-0AA70-7AA0	Universal front cover for IM 155-5 PN ST, 5 pcs.



S7-1500 Spare Parts - 25mm Wide Modules

Product Code	Description
6ES7590-0AA00-0AA0	U-type connector, 5 pcs.
6ES7193-4JB00-0AA0	Plug, 2x 2-pin for 24V DC power supply, push-in terminal, 10pcs.
6ES7528-0AA00-7AA0	Universal front cover for IO modules 35mm (PU = 5pcs.)
6ES7592-2AX00-0AA0	Sheets with labeling strips for 35mm wide modules (Al gray, PU = 10 pcs.)

SIMATIC S7-1500 (PLC)



S7-1500 PM Load Current Supply

Product Code	Description
6EP1332-4BA00	PM 70W, 120 / 230V AC
6EP1333-4BA00	PM 190W, 120 / 230V AC

S7 - 1500 Power Supply System

Product Code	Description
6ES7505-0KA00-0AB0	System power supply 25W, 24V DC
6ES7505-0RA00-0AB0	System power supply 60W, 24/48/60V DC
6ES7507-0RA00-0AB0	System power supply 60W, 120/230V AC/DC
The system power supply (PS) provides the voltage supply for the S7-1500 modules via the backplane bus	

S7-1500 Fully Modular Connection For IO modules (Modular System For Field Connection)

Product Code	Description
6ES7921-5AH20-0AA0	Front plug-in module 4x 8 I/O, push-in
6ES7921-5AB20-0AA0	Front plug-in module 4x 8 I/O, screw terminals
6ES7921-5AJ00-0AA0	Front plug-in module 1x 8 DO for 2A modules, push-in
6ES7921-5AD00-0AA0	Front plug-in module 1x 8 DO for 2A modules, screw terminals
6ES7923-0BF00-0DB0	Connecting cable, 5m shielded (available lengths: 1 to 10m)
6ES7923-0BF00-0CB0	Connecting cable, 5m unshielded (available lengths: 0.5 to 10m)

7-1500 Fully Modular Connection for IO modules (Modular System For Field Connection)

Product Code	Description
6ES7924-0AA20-0AA0	Connection module 8 I/O digital, single-conductor connection, screw terminals without LED
6ES7924-0AA20-0BA0	Connection module 8 I/O digital, single-conductor connection, screw terminals with LED
6ES7924-0CA20-0AA0	Connection module 8 I/O digital, 3-conductor connection, screw terminals without LED
6ES7924-0CA20-0BA0	Connection module 8 I/O digital 3-conductor connection, screw terminals with LED
6ES7924-0BB20-0AA0	Connection module I/O for 2A modules, screw terminals

Flexible Connection For IO modules (Wiring In Control Cabinet, Available Lengths Up To 10m)

Product Code	Description
6ES7922-5BC50-0AC0	Front plug with 40 single cores H05V-K (0.5mm² with screw connection), 2.5m
6ES7922-5BC50-0HC0	Front plug with 40 single cores halogen-free (0.5mm² with screw connection), 2.5m
6ES7922-5BD20-0UC0	Front plug with 40 single cores UL/CSA certified (0.5mm² with screw connection), 3.2m
6ES7922-5BC50-0AB0	Front plug with 20 single cores (0.5mm² with screw connection), 2.5m
6ES7922-5BC50-0HB0	Front plug with 20 single cores halogen-free (0.5mm² with screw connection), 2.5m
6ES7922-5BD20-0UB0	Front plug with 20 single cores UL/CSA certified (0.5mm² with screw connection), 3.2m

Comfort Panels

Product Code	Description
6AV2124-0GC01-0AX0	SIMATIC HMI TP700 comfort, comfort panel, touch operation, 7" widescreen-tft-display, 16 mil. Colours, profinet interface, mpi/profibus dp interface, 12Mb user memory, windows ce 6.0, Configurable from WINCC comfort v11
6AV2124-0JC01-0AX0	SIMATIC HMI TP900 Comfort, Comfort Panel, Touch Operation, 9" Widescreen-Tft-Display, 16 Mil. Colors, Profinet Interface, Mpi/Profibus DP Interface, 12Mb User Memory, Windows Ce 6.0, Configurable From WINCC Comfort V11
6AV2124-0MC01-0AX0	SIMATIC HMI TP1200 Comfort, Comfort Panel, Touch Operation, 12" Widescreen-TFT-Display, 16 Mil. Colors, Profinet Interface, Mpi/Profibus Dp Interface, 12Mb User Memory, Windows Ce 6.0, Configurable From WINCC Comfort V11
6AV2181-8XP00-0AX0	SIMATIC HMI Memory Card 2Gb Secure Digital Card For Simatic Hmi Comfort Panel
6AV2101-0AA06-0AA5	SIMATIC WINCC comfort V16 software
6AV2181-8AV20-0AX0	Touch pen system for capacitive, or resistive touch screen pen, Incl. holder for 22.5mm, screw on or glue for capacitive and resistive touch screens further information, quantity and content: see technical data



Unified Comfort Panels

Product Code	Description
6AV2128-3GB06-0AP0	Starter kit MTP700 unified comfort, consisting of: MTP700 unified comfort; WINCC unified comfort (tia portal); edge runtime license; industrial ethernet cable; for test purposes; SIMATIC SD indoor card 32Gb; 5 protective films
6AV2128-3KB06-0AP0	STARTER KIT MTP1000 unified comfort, consisting of: MTP1000 Unified Comfort; Wincc Unified Comfort (Tia Portal); Edge Runtime License; Industrial Ethernet Cable; For Test Purposes; SIMATIC SD indoor card 32Gb; 5 protective films
6AV2128-3MB06-0AP0	STARTER KIT MTP1200 unified comfort, consisting of: MTP1200 unified comfort; WINCC unified comfort (tia portal); edge runtime license; industrial ethernet cable; for test purposes; SIMATIC SD indoor card 32Gb; 5 protective films

SINAMICS V20 – 3AC inverter without integrated line filter | 3-phase



Product Code	Rated Power		Output Current IH	Frame Size	Dimensions (h x w x d)
6SL3210-5BE13-7UV1	0.37kW	0.5hp	1.3A	FSA without fan	150 x 90 x 145.5mm
6SL3210-5BE15-5UV1	0.55kW	0.75hp	1.7A	FSA without fan	150 x 90 x 145.5mm
6SL3210-5BE17-5UV1	0.75kW	1.0hp	2.2A	FSA without fan	150 x 90 x 145.5mm
6SL3210-5BE21-1UV1	1.1kW	1.5hp	3.1A	FSA with one fan	166 x 90 x 145.5mm
6SL3210-5BE21-5UV1	1.5kW	2.0hp	4.1A	FSA with one fan	166 x 90 x 145.5mm
6SL3210-5BE22-2UV1	2.2kW	3.0hp	5.6A	FSA with one fan	166 x 90 x 145.5mm
6SL3210-5BE23-0UV1	3.0kW	4.0hp	7.3A	FSB with one fan	160 x 140 x 164.5mm
6SL3210-5BE24-0UV1	4.0kW	5.0hp	8.8 / 8.24A	FSB with one fan	160 x 140 x 164.5mm
6SL3210-5BE25-5UV1	5.5kW	7.5hp	12.5 / 11A	FSC with one fan	182 x 184 x 169mm
6SL3210-5BE27-5UV0	7.5kW	10hp	16.5A	FSD with two fans	206.5 x 240 x 172.5mm
6SL3210-5BE31-1UV0	11.0kW	15hp	25 / 21A	FSD with two fans	206.5 x 240 x 172.5mm
6SL3210-5BE31-5UV0	15.0kW	20hp	31A	FSD with two fans	206.5 x 240 x 172.5mm
6SL3210-5BE31-8UV0	22.0 / 18.5kW	30.0 / 25.0hp	45 / 40 / 38 / 34A	FSE with two fans	264.5 x 243.5 x 209mm
6SL3210-5BE32-2UV0	30.0 / 22.0kW	40.0 / 30.0hp	60 / 52 / 45 / 40A	FSE with two fans	264.5 x 243.5 x 209mm

Line voltage: 3AC 380 ... 480V -15% / +10%, output voltage 380–480 V, 3 phase, Fieldbus: USS / Modbus RTU, with inbuilt BOP, protection: IP20 / UL open type

SINAMICS V20 Basic Inverters | 1AC inverter without integrated line filter | Single-phase



Product Code	Rated Power		Output current IH	Frame Size	Dimensions (h x w x d)
6SL3210-5BB11-2UV1	0.12kW	0.16hp	0.9 A	FSAA without fan	142 x 68 x 107.8mm
6SL3210-5BB12-5UV1	0.25kW	0.33hp	1.7 A	FSAA without fan	142 x 68 x 107.8mm
6SL3210-5BB13-7UV1	0.37kW	0.5hp	2.3 A	FSAA without fan	142 x 68 x 107.8mm
6SL3210-5BB15-5UV1	0.55kW	0.75hp	3.2 A	FSAB without fan	142 x 68 x 127.8mm
6SL3210-5BB17-5UV1	0.75kW	1.0hp	4.2 A	FSAB without fan	142 x 68 x 127.8mm
6SL3210-5BB21-1UV1	1.1kW	1.5hp	6.0 A	FSAC with one fan	160.9 x 90.8 x 147mm
6SL3210-5BB21-5UV1	1.5kW	2.0hp	7.8 A	FSAC with one fan	160.9 x 90.8 x 147mm
6SL3210-5BB22-2UV1	2.2kW	3.0hp	11.0 A	FSC with one fan	182 x 184 x 169mm
6SL3210-5BB23-0UV1	3.0kW	4.0hp	13.6 A	FSC with one fan	182 x 184 x 169mm

Line voltage: 1AC 200 ... 240V -15% / +10%, Output voltage 200–240V, 3–phase, Fieldbus: USS / Modbus RTU, with inbuilt BOP, protection: IP20 / UL open type



TeSys K Control Relays | AC and DC



Product Code	Description	Number Of Contacts	Connection	Current
CA2KN22*	AC Control Relays	2N/O +2N/C	Screw clamp connections	6A
CA2KN31*	AC Control Relays	3N/O +1N/C	Screw clamp connections	6A
CA2KN40*	AC Control Relays	4N/O	Screw clamp connections	6A
CA3KN22*	DC Control Relays	2N/O +2N/C	Screw clamp connections	6A
CA3KN31*	DC Control Relays	3N/O +1N/C	Screw clamp connections	6A
CA3KN40*	DC Control Relays	4N/O	Screw clamp connections	6A
CA4KN22*	DC low cons.	2N/O + 2N/C	Screw clamp connections	6A
CA4KN31*	DC low cons.	3N/O + 1N/C	Screw clamp connections	6A
CA4KN40*	DC low cons.	4N/O	Screw clamp connections	6A
*Paired with below Coil codes for TeSys K Control Relays				

AC Coil Codes for TeSys K Control Relays

DC Coil Codes for TeSys K Control Relays

Product Code	Voltage	Product Code	Voltage
**B7	24V AC	**JD	12V DC
**E7	48V AC	**BD	24V DC
**F7	110V AC	**ED	48V DC
**P7	220/230V AC	**FD	110V DC
**Q7	380/400V AC		
*Paired with above TeSys K Control Relays codes.			

TeSys K Contactors AC3 | AC and DC



Product Code	Description	Aux Contacts	Power Ratings	Current
LC1K0601*	Contactors 3-Phase Motors 50/60Hz In Category AC-3	1N/C	2.2kW	6A
LC1K0610*	Contactors 3-Phase Motors 50/60Hz In Category AC-3	1N/O	2.2kW	6A
LC1K0901*	Contactors 3-Phase Motors 50/60Hz In Category AC-3	1N/C	4kW	9A
LC1K0910*	Contactors 3-Phase Motors 50/60Hz In Category AC-3	1N/O	4kW	9A
LC1K1201*	Contactors 3-Phase Motors 50/60Hz In Category AC-3	1N/C	5.5kW	12A
LC1K1210*	Contactors 3-Phase Motors 50/60Hz In Category AC-3	1N/O	5.5kW	12A
LC1K1601*	Contactors 3-Phase Motors 50/60Hz In Category AC-3	1N/C	7.5kW	16A
LC1K1610 *	Contactors 3-Phase Motors 50/60Hz In Category AC-3	1N/O	7.5kW	16A
*Paired with below Coil codes for TeSys K Contactors.				

AC Coil Codes For K-Range 3-Pole Contactors

DC Coil Codes For K-Range 3-Pole Contactors

Product Code	Voltage	Product Code	Voltage
**B7	24V AC	**JD	12V DC
**E7	48V AC	**BD	24V DC
**F7	110V AC	**ED	48V DC
**P7	220/230V AC	**FD	110V DC
**Q7	380/400V AC	-	-
*Paired with above TeSys K Contactors codes.			

TeSys K Accessories | Auxiliary Contact Blocks | Front Mount



Product Code	Fits with Model Type	Composition
LA1KN20	for LC1, LP1K, LP4	2N/O
LA1KN02	for LC1, LP1K, LP4	2N/C
LA1KN11	for LC1, LP1K, LP4	1N/O+ 1N/C
LA1KN40	for LC1, LP1K, LP4	4N/O
LA1KN31	for LC1, LP1K, LP4	3N/O + 1N/C
LA1KN22	for LC1, LP1K	2N/C + 2N/C
LA1KN13	for LC1, LP1K	1N/O + 3N/C
LA1KN04	for LC1, LP1K	4N/C

TeSys Deca Control Relays | AC and DC



Control Relays

Product Code	Description	Composition	Connection
CAD50*	Control Relays, Instantaneous auxiliary contacts	5 N/O	Screw Clamp Terminal
CAD32*	Control Relays, Instantaneous auxiliary contacts	3 N/O + 2 N/C	Screw Clamp Terminal

*Paired with below Coil codes for TeSys D control relays.

AC Coil Codes for TeSys D Control relays

DC Coil Codes for TeSys D Control relays

Product Code	Voltage	Product Code	Voltage
**B7	24V AC	**BD	24V DC
**F7	110V AC	**FD	110V DC
**P7	220V AC	**MD	220V DC
**G7	380 / 400V AC	-	-

**Paired with above codes for TeSys D control relays.

TeSys Deca Contactors | AC and DC



Product Code	Description	Aux Contacts	Power Ratings	Current
LC1D09*	3-Pole Contactor AC-3	1N0 + 1N/C	4kW	9A
LC1D12*	3-Pole Contactor AC-3	1N0 + 1N/C	5.5kW	12A
LC1D18*	3-Pole Contactor AC-3	1N0+1N/C	7.5kW	18A
LC1D25*	3-Pole Contactor AC-3	1N0 + 1N/C	11kW	25A
LC1D32*	3-Pole Contactor AC-3	1N0 + 1N/C	15kW	32A
LC1D38*	3-Pole Contactor AC-3	1N0 + 1N/C	18.5kW	38A
LC1D40A*	3-Pole Contactor AC-3	1N0 + 1N/C	18.5kW	40A
LC1D50A*	3-Pole Contactor AC-3	1N0 + 1N/C	22kW	50A
LC1D65A*	3-Pole Contactor AC-3	1N0 + 1N/C	30kW	65A
LC1D80A*	3-Pole Contactor AC-3	1N0 + 1N/C	37kW	80A
LC1D95A*	3-Pole Contactor AC-3	1N0 + 1N/C	45kW	95A
LC1D115A*	3-Pole Contactor AC-3	1N0 +1N/C	55kW	115A
LC1D150A*	3-Pole Contactor AC-3	1N0 + 1N/C	75kW	150A

*Paired with below Coil codes for TeSys D Contactors.

AC Coil Codes for TeSys D Contactors

DC Coil Codes for TeSys D Contactors

Product Code	Voltage	Product Code	Voltage
**B7	24V AC	**JD	12V DC
**E7	48V AC	**BD	24V DC
**F7	110V AC	**ED	48V DC
**P7	220V AC	**FD	110V DC
**Q7	380V AC	**MD	220V DC

**Paired with above codes for TeSys D Contactors.

TeSys Deca Accessories | Auxiliary Contact Blocks | Front Mount



Product Code	Fits with Model Type	Composition
LADN20	for LC1, LP1K, LP4	2N/O
LADN02	for LC1, LP1K, LP4	2N/C
LADN11	for LC1, LP1K, LP4	1N/O 1N/C
LADN40	for LC1, LP1K, LP4	4N/O
LADN31	for LC1, LP1K, LP4	3N/O 1N/C
LADN22	for LC1, LP1K	2N/C 2N/C
LADN13	for LC1, LP1K	1N/O 3N/C
LADN04	for LC1, LP1K	4N/C

TeSys Deca Thermal Overload Relays



D-Range 3-Pole Contactors For Connection By Screw Clamp Terminals (DC Coil)

Product Code	Thermal Protection Adjustment Range		With Contactor
LRD01	Class 10A	0.10...0.16A	LC1D09...D38
LRD02	Class 10A	0.16...0.25A	LC1D09...D38
LRD03	Class 10A	0.25...0.40A	LC1D09...D38
LRD04	Class 10A	0.40...0.63A	LC1D09...D38
LRD05	Class 10A	0.63...1A	LC1D09...D38
LRD06	Class 10A	1...1.7A	LC1D09...D38
LRD07	Class 10A	1.6...2.5A	LC1D09...D38
LRD08	Class 10A	2.5...4A	LC1D09...D38
LRD10	Class 10A	4...6A	LC1D09...D38
LRD12	Class 10A	5.5...8A	LC1D09...D38
LRD14	Class 10A	7...10A	LC1D09...D38
LRD16	Class 10A	9...13A	LC1D12...D38
LRD21	Class 10A	12...18A	LC1D18...D38
LRD22	Class 10A	16...24A	LC1D25...D38
LRD32	Class 10A	23...32A	LC1D25...D38
LRD35	Class 10A	30...38A	LC1D32 and D38
LRD3361	Class 10A	55...70A	D50...D95
LRD3363	Class 10A	63...80A	D65...D95
LRD3365	Class 10A	80...104A	D80 and D95

TeSys Deca GV3 Manual Starter



Thermal-magnetic 5.5...30kW with Ever Link Terminal Blocks

400 / 415V at 400 / 415V AC 50/60Hz				500V at 500V AC 50 / 60Hz			
Product Code	Motort Power	Breaking Capacity	Rated Short-circuit	Motort Power	Breaking Capacity	Rated Short-circuit	Setting Range Of Thermal Trips
GV3P32	15kW	100kA	50%	18.5kW	12kA Icu	50%	23...32A
GV3P40	18.5kW	50kA	50%	22kW	12kA Icu	50%	30...40A
GV3P50	22kW	50kA	50%	30kW	12kA Icu	50%	37...50A
GV3P65	30kW	50kA	50%	37kW	12kA Icu	50%	48...65A

Thermal-magnetic circuit-breakers GV3-P for connection by Ever Link terminal blocks Control by rotary knob.

TeSys Deca GV2 Manual Starter



Rotary handle Thermal-magnetic motor ciruit breakers

400 / 415V at 400 / 415V AC 50/60Hz			500V at 500V AC 50 / 60Hz		
Product Code	Motor Power	Breaking Capacity	Motor Power	Breaking Capacity	Magnectic Protection Range
GV2L03	0.18kW	100kA	-	100kA	0.4A
GV2L04	0.37kW	100kA	0.75kW	100kA	0.63A
GV2L05	0.55kW	100kA	1.1kW	100kA	1A
GV2L06	0.75kW	100kA	2.2kW	100kA	1.6A
GV2L07	1.5kW	100kA	3kW	100kA	2.5A
I	2.2kW	100kA	5.5kW	100kA	4A
GV2L10	4kW	100kA	7.5kW	10kA	6.3A
GV2L14	5.5kW	50kA	9kW	10kA	10A
GV2L16	7.5kW	50kA	11kW	10kA	14A
GV2L20	11kW	50kA	15kW	10kA	18A
GV2L22	-	-	-	-	25A
GV2L32	15kW	50kA	18.5kW	10kA	32A

Thermal-magnetic circuit-breakers GV3-P for connection by Ever Link terminal blocks Control by rotary knob.

TeSys Deca TeSys Power GV2P MCPs Padlockable External Handle



Product Code	Description
GV2AP01	Padlocking in "On" and "Off" position Black handle, blue legend plate, IP54. For GV2L, 150mm to 290mm)

TeSys Deca GV2 & GV3 Accessories



Product Code	Contact Type
GVEAD011	N/O(fault) + N/C
GVAED101	N/O(fault) + N/O

TeSys Deca GV2 Accessories



Product Code	Description
GV2AF01	Combination block between GV2 and LC1K
GV2AF3	Combination block between GV2 and LC1D09-D3
GV2AF4	Combination block, between GV2 mounted on LAD31 and LC1D09-D38

TeSys Deca GV2 Top Mount Auxiliaries



Product Code	Description	Mounting	Type Of Contacts	Max Number
GVAE1	Instantaneous auxiliary contacts	Front	N/O or N/C	1
GVAE11	Instantaneous auxiliary contacts	Front	N/O + N/C	1
GVAE20	Instantaneous auxiliary contacts	Front	N/O + N/O	1
GVAN11	Instantaneous auxiliary contacts	Side (LH)	N/O + N/C	2
GVAN20	Instantaneous auxiliary contacts	Side (LH)	N/O + N/O	2

Easy TeSys Control | Auxiliary Contactors AC



Product Code	Description	Motor Power	Poles	Rated Current
LC1E0601*	3-Pole Contactor AC-3	2.2kW 240V	3P	6A
LC1E0610*	3-Pole Contactor AC-33 1N/O	2.2kW 110V	3P	6A
LC1E0901*	3-Pole Contactor AC-3 1N/C	4kW 240V	3P	9A
LC1E0910*	3-Pole Contactor AC-3 1N/O	4kW 110V	3P	9A
LC1E1201*	3-Pole Contactor AC-3 1N/C	5.5kW 240V	3P	12A
LC1E1210*	3-Pole Contactor AC-3 1N/O	5.5kW 110V	3P	12A
LC1E2501*	3-Pole Contactor AC-3 1N/C	11kW 240V	3P	25A
LC1E2510*	3-Pole Contactor AC-3 1N/O	11kW 110V	3P	25A
LC1E3201*	3-Pole Contactor AC-3 1N/C	15kW 240V	3P	32A
LC1E3210*	3-Pole Contactor AC-3 1N/O	15kW 110V	3P	32A
LC1E3801*	3-Pole Contactor AC-3 1N/C	18.5kW 240V	3P	38A
LC1E3810*	3-Pole Contactor AC-3 1N/O	18.5kW 110V	3P	38A
LC1E40*	3-Pole Contactor AC-3	18.5kW 110V	3P	40A
LC1E50*	3-Pole Contactor AC-3	22kW 415V	3P	50A
LC1E65*	3-Pole Contactor AC-3	30kW 110V	3P	65A
LC1E80*	3-Pole Contactor AC-3	37kW 110V	3P	80A
LC1E95*	3-Pole Contactor AC-3	45kW 240V	3P	95A
LC1E120*	3-Pole Contactor AC-3 1N/O + 1N/C	55kW 400V	3P	120A
LC1E160*	3-Pole Contactor AC-3 1N/O + 1N/C	90kW 400V	3P	160A
LC1E300*	3-Pole Contactor AC-3	160kW 380...400V	3P	330A
LC1E400*	3-Pole Contactor AC-3	200kW 380...400V	3P	400A
LC1E500*	3-Pole Contactor AC-3	250kW 380...400V	3P	500A
LC1E630*	3-Pole Contactor AC-3	335kW 380...400V	3P	630A

*Paired with below Coil codes for Easy Tesys.

AC Coil Codes for LC1E 06 -300 EasyPact TVS

Product Code	Voltage	Product Code	Voltage
**B5	24V AC	**E7	48V DC
**E5	48V AC	**F7	110V DC
**F5	110V AC	**U7	240V DC
**U5	240V AC	**N7	415V DC
**N5	415V AC	-	-

**Paired with above codes for EasyPact TVS.

Coil Codes for LC1E400 – 630 EasyPact TVS

Easy TeSys Control Auxillary Contacts & Timer Accessories



  	Product Code	Description	With Contactor
	LAEM1	Mechanical interlock	LC1E06...E65
	LAEM4	Mechanical interlock	LC1E80...E95
	LAEM5	Mechanical interlock	LC1E120...E160
	LAEM6	Mechanical interlock	LC1E200...E250
	LAEM7	Mechanical interlock	LC1E300...E500
	LAEM8	Mechanical interlock	E630
	LAEN11	Auxiliary contact block, 1 N/O + 1 N/C - screw-clamps terminals	
	LAEN20	Auxiliary contact block - 2 N/O - screw-clamps terminals	
	LAEN02	Auxiliary contact block - 2 N/C - screw-clamps terminals	
	LAEN22	Auxiliary contact block - 2 N/O + 2 N/C - screw-clamps terminals	
	LAETSD	1N/O +1N/C, on delay, 1...30sec, Pneumatic Timer	

Easy TeSys Power GZ1E Manual Motor Starters

	Motor Circuit Breaker Thermal / Magnetic	
	Product Code	Description
	GZ1E01	GZ1E Motor CB THER/MAG 0.1-0.16A
	GZ1E02	GZ1 E Motor CB TH ER/MAG 0.16-0.25A
	GZ1E03	GZ1 E Motor CB THER/MAG 0.25-0.40A
	GZ1E04	GZ1 E Motor CB THER/MAG 0.40-0.63A
	GZ1E05	GZ1 E Motor CB THER/MAG 0.63-1A
	GZ1E06	GZ1E Motor CB THER/MAG 1-1.6A
	GZ1E07	GZ1 E Motor CB TH ER/MAG 1.6-2.5A
	GZ1E08	GZ1 E Motor CB THER/MAG 2.5-4A
	GZ1E10	GZ1 E Motor CB TH ER/MAG 4-6.3A
	GZ1E14	GZ1 E Motor CB TH ER/MAG 6-10A
	GZ1E16	GZ1E Motor CB THER/MAG 9-14A
	GZ1E20	GZ1E Motor CB THER/MAG 13-18A
	GZ1E21	GZ1E Motor CB THER/MAG 17-23A
	GZ1E22	GZ1 E Motor CB TH ER/MAG 20-25A
	GZ1E32	GZ1E Motor CB THER/MAG 24-32A

GZ1 E Accessories

	Product Code	Description
	GZ1 AN11	Contact blocks Instantaneous auxiliary contacts, N/O + N/C, LH side - Max - 2
	GZ1 AN20	Contact blocks Instantaneous auxiliary contacts, N/O + N/O, LH side - Max - 2
	GZ1 AU115	Electric trips Undervoltage trip, Tension- 110...115V 50Hz
	GZ1 AU225	Electric trips Undervoltage trip, Tension - 220...240V 50Hz
	GZ1 AU385	Electric trips Undervoltage trip, Tension- 380...400V 50Hz
	GZ1 AS115	Electric trips Shunt trip, Tension- 110...115V 50Hz
	GZ1 AS225	Electric trips Shunt trip, Tension- 220...240V 50Hz
	GV2 AF02	Mounting accessory Adapter plate, For screw fixing of a GZ1 E

Easy TeSys Power Therm O/L Relay



Product Code	Description	Relay Setting Range	Connection	Used with Contactor
LRE01	Easy TeSys Power Therm O/L Relay	0.1–0.16A	Screw Clamp	E06–E38
LRE02	Easy TeSys Power Therm O/L Relay	0.16–0.25A	Screw Clamp	E06–E38
LRE03	Easy TeSys Power Therm O/L Relay	0.25–0.4A	Screw Clamp	E06–E38
LRE04	Easy TeSys Power Therm O/L Relay	0.4–0.63A	Screw Clamp	E06–E38
LRE05	Easy TeSys Power Therm O/L Relay	0.63–1A	Screw Clamp	E06–E38
LRE06	Easy TeSys Power Therm O/L Relay	1–1.6A	Screw Clamp	E06–E38
LRE07	Easy TeSys Power Therm O/L Relay	1.6–2.5A	Screw Clamp	E06–E38
LRE08	Easy TeSys Power Therm O/L Relay	2.5–4A	Screw Clamp	E06–E38
LRE10	Easy TeSys Power Therm O/L Relay	4–6A	Screw Clamp	E06–E38
LRE12	Easy TeSys Power Therm O/L Relay	5.5–BA	Screw Clamp	E09–E38
LRE14	Easy TeSys Power Therm O/L Relay	7–10A	Screw Clamp	E09–E38
LRE16	Easy TeSys Power Therm O/L Relay	9–13A	Screw Clamp	E12–E38
LRE21	Easy TeSys Power Therm O/L Relay	12–18A	Screw Clamp	E25–E38
LRE22	Easy TeSys Power Therm O/L Relay	16–24A	Screw Clamp	E25–E38
LRE32	Easy TeSys Power Therm O/L Relay	23–32A	Screw Clamp	E25–E38
LRE35	Easy TeSys Power Therm O/L Relay	30–38A	Screw Clamp	E38
LRE322	Easy TeSys Power Therm O/L Relay	17–25A	Screw Clamp	E40–E95
LRE353	Easy TeSys Power Therm O/L Relay	23–32A	Screw Clamp	E40–E95
LRE355	Easy TeSys Power Therm O/L Relay	30–40A	Screw Clamp	E40–E95
LRE357	Easy TeSys Power Therm O/L Relay	37–50A	Screw Clamp	E50–E95
LRE359	Easy TeSys Power Therm O/L Relay	48–65A	Screw Clamp	E65–E95
LRE361	Easy TeSys Power Therm O/L Relay	55–80A	Screw Clamp	E80–E95
LRE363	Easy TeSys Power Therm O/L Relay	63–80A	Screw Clamp	E80–E95
LRE365	Easy TeSys Power Therm O/L Relay	80–104A	Screw Clamp	E95
LRE480	Easy TeSys Power Therm O/L Relay	51–81A	Screw Clamp	E120–E160
LRE481	Easy TeSys Power Therm O/L Relay	62–99A	Screw Clamp	E120–E160
LRE482	Easy TeSys Power Therm O/L Relay	84–135A	Screw Clamp	E120–E160
LRE483	Easy TeSys Power Therm O/L Relay	124–198A	Screw Clamp	E200
LRE484	Easy TeSys Power Therm O/L Relay	146–234A	Screw Clamp	E250–E400
LRE485	Easy TeSys Power Therm O/L Relay	174–279A	Screw Clamp	E250–E400
LRE486	Easy TeSys Power Therm O/L Relay	208–333A	Screw Clamp	E250–E400
LRE487	Easy TeSys Power Therm O/L Relay	259–414A	Screw Clamp	E300–E400
LRE488	Easy TeSys Power Therm O/L Relay	321–513A	Screw Clamp	E500
LRE489	Easy TeSys Power Therm O/L Relay	394–630A	Screw Clamp	E630



Easy TeSys Power Thermal Overload Relays Accessories



Product Code	Description	Used with Contactor
LAEB1	Separate mounting bracket	LRE01–E35
LAEB3	Separate mounting bracket	LRE322–LRE365

Easy TeSys Control Enclosed Standard Starters / Direct-On-Line (DOL)



Product Code	Motor Power	Max Current	Weight	Dimensions
LE1D09	2.2 - 5.5kW	9A	0.920kg	88 x 166 x 128.5mm
LE1D12	3 - 7.5kW	12A	0.920kg	88 x 166 x 128.5mm
LE1D18	4 - 10kW	17A	1.015kg	101 x 201 x 153.5mm
LE1D25	5.5 - 15kW	22A	1.015kg	101 x 201 x 153.5mm
LE1D35	7.5 - 18.5kW	26.5A	4.320kg	101 x 201 x 153.5mm
LE1D40	11 - 30kW	40A	4.820kg	200 x 300 x 158.5mm
LE1D50	15 - 33kW	50A	4.850kg	200 x 300 x 158.5mm
LE1D65	18.5 - 37kW	65A	4.850kg	200 x 300 x 158.5mm



EasyPact CVS Moulded Circuit Breakers | 100/160/250



EasyPact CVS100B (25kA at 380/415V)

Product Code	Protected Poles	Product Code	Protected Poles	Product Code	Protected Poles	Amps	Rating
ZZA_LV510300	3P 3d	ZZA_LV510310	4P 3d	ZZA_LV510320	4P 4d	16A	TM16D
ZZA_LV510301	3P 3d	ZZA_LV510311	4P 3d	ZZA_LV510321	4P 4d	25A	TM25D
ZZA_LV510302	3P 3d	ZZA_LV510312	4P 3d	ZZA_LV510322	4P 4d	32A	TM32D
ZZA_LV510303	3P 3d	ZZA_LV510313	4P 3d	ZZA_LV510323	4P 4d	40A	TM40D
ZZA_LV510304	3P 3d	ZZA_LV510314	4P 3d	ZZA_LV510324	4P 4d	50A	TM50D
ZZA_LV510305	3P 3d	ZZA_LV510315	4P 3d	ZZA_LV510325	4P 4d	63A	TM63D
ZZA_LV510306	3P 3d	ZZA_LV510316	4P 3d	ZZA_LV510326	4P 4d	80A	TM80D



EasyPact CVS160B (25kA at 380/415V)

Product Code	Protected Poles	Product Code	Protected Poles	Product Code	Protected Poles	Amps	Rating
ZZA_LV510307	3P 3d	ZZA_LV510317	4P 3d	ZZA_LV510327	4P 4d	100A	TM100D
ZZA_LV516301	3P 3d	ZZA_LV516311	4P 3d	ZZA_LV516321	4P 4d	100A	TM100D
ZZA_LV516302	3P 3d	ZZA_LV516312	4P 3d	ZZA_LV516322	4P 4d	125A	TM125D
ZZA_LV516303	3P 3d	ZZA_LV516313	4P 3d	ZZA_LV516323	4P 4d	160A	TM160D



EasyPact CVS250B (25kA at 380 / 415V)

Product Code	Protected Poles	Product Code	Protected Poles	Product Code	Protected Poles	Amps	Rating
ZZA_LV525301	3P 3d	ZZA_LV525311	4P 3d	ZZA_LV525321	4P 4d	100A	TM160D
ZZA_LV525302	3P 3d	ZZA_LV525312	4P 3d	ZZA_LV525322	4P 4d	200A	TM200D
ZZA_LV525303	3P 3d	ZZA_LV525313	4P 3d	ZZA_LV525323	4P 4d	250A	TM250D



EasyPact CVS100F (36kA at 380 / 415V)

Product Code	Protected Poles	Product Code	Protected Poles	Product Code	Protected Poles	Amps	Rating
ZZA_LV510330	3P 3d	ZZA_LV510340	4P 3d	ZZA_LV510350	4P 4d	16A	TM16D
ZZA_LV510331	3P 3d	ZZA_LV510341	4P 3d	ZZA_LV510351	4P 4d	25A	TM25D
ZZA_LV510332	3P 3d	ZZA_LV510342	4P 3d	ZZA_LV510352	4P 4d	32A	TM32D
ZZA_LV510333	3P 3d	ZZA_LV510343	4P 3d	ZZA_LV510353	4P 4d	40A	TM40D
ZZA_LV510334	3P 3d	ZZA_LV510344	4P 3d	ZZA_LV510354	4P 4d	50A	TM50D
ZZA_LV510335	3P 3d	ZZA_LV510345	4P 3d	ZZA_LV510355	4P 4d	63A	TM63D
ZZA_LV510336	3P 3d	ZZA_LV510346	4P 3d	ZZA_LV510356	4P 4d	80A	TM80D
ZZA_LV510337	3P 3d	ZZA_LV510347	4P 3d	ZZA_LV510357	4P 4d	100A	TM100D



EasyPact CVS160F (36kA at 380/415V) 160 Amps

Product Code	Protected Poles	Product Code	Protected Poles	Product Code	Protected Poles	Amps	Rating
ZZA_LV516331	3P 3d	ZZA_LV516341	4P 3d	ZZA_LV516321	4P 4d	100A	TM100D
ZZA_516332	3P 3d	ZZA_516342	4P 3d	ZZA_LV516322	4P 4d	125A	TM125D
ZZA_LV516333	3P 3d	ZZA_LV516343	4P 3d	ZZA_LV516323	4P 4d	160A	TM160D

EasyPact CVS250F (36kA at 380 / 415V) 250 Amps

Product Code	Protected Poles	Product Code	Protected Poles	Product Code	Protected Poles	Amps	Rating
ZZA_LV525331	3P 3d	ZZA_LV525341	4P 3d	ZZA_LV525351	4P 4d	160A	TM160D
ZZA_LV525332	3P 3d	ZZA_LV525342	4P 3d	ZZA_LV525352	4P 4d	200A	TM200D
ZZA_LV525333	3P 3d	ZZA_LV525343	4P 3d	ZZA_LV525353	4P 4d	250A	TM250D

EasyPact CVS Moulded Case Circuit Breakers | 100/160/250



Product Code	Protected Poles	Rating	Amps	Description
LV510440	3P 3d	MA2.5	100A	EasyPact CVS100F (36kA at 380/415V)
LV510441	3P 3d	MA6.3	100A	EasyPact CVS100F (36kA at 380/415V)
LV510442	3P 3d	MA12.5	100A	EasyPact CVS100F (36kA at 380/415V)
LV510443	3P 3d	MA25	100A	EasyPact CVS100F (36kA at 380/415V)
LV510444	3P 3d	MA50	100A	EasyPact CVS100F (36kA at 380/415V)
LV510445	3P 3d	MA100	100A	EasyPact CVS100F (36kA at 380/415V)
LV516439	3P 3d	MA100	160A	EasyPact CVS1650F (36kA at 380/415V)
LV516440	3P 3d	MA150	160A	EasyPact CVS1650F (36kA at 380/415V)
LV525439	3P 3d	MA220	250A	EasyPact CVS250F (36kA at 380/415V)

EasyPact CVS Switch-Disconnecter | 100/160/250NA



Product Code	Poles	Product Code	Poles	Amps	Description
LV510425	3-P	LV510426	4-P	100A	EasyPact CVS100NA
LV516425	3-P	LV516426	4-P	160A	EasyPact CVS160NA
LV525425	3-P	LV525426	4-P	250A	EasyPact CVS250NA

EasyPact CVS Accessories | 100/160/250



Short Terminal shield



Long Terminal shield



Interphase barriers

Insulating screens

Product Code	Poles	Product Code	Poles	Description
LV429515	3-P	LV429516	4-P	1 short terminal shield for breaker, EasyPact CVS250NA
LV429517	3-P	LV429518	4-P	1 long terminal shield for breaker, EasyPact CVS250NA
LV429330	3-P	LV429331	4-P	2 insulating screens for breaker (45mm pitch) EasyPact CVS250NA
LV429329	-	-	-	Interphase barriers for breaker, Set of 6, EasyPact CVS250NA

EasyPact CVS Accessories | 100/160/250

Shunt and Under Voltage releases AC control



Product Code	Function	Voltage
LV429384	Shunt release	24V AC 50 / 60Hz
LV429385	Shunt release	48V AC 50 / 60Hz
LV429386	Shunt release	110-130V AC 50 / 60Hz
LV429387	Shunt release	220-240V AC 50 / 60Hz and 208-277V AC 60
LV429388	Shunt release	380-41V AC 50Hz and 440-480V AC 60Hz
LV429404	Undervoltage release	24V AC 50 / 60Hz
LV429405	Undervoltage release	48V AC 50 / 60Hz
LV429406	Undervoltage release	110-130V AC 50 / 60Hz
LV429407	Undervoltage release	220-240V AC 50 / 60Hz and 208-277V AC 60Hz
LV429408	Undervoltage release	380-41V AC 50Hz and 440-480V AC 60Hz



EasyPact CVS Accessories



Shunt and Under Voltage releases **DC control**

Product Code	Function	Voltage
LV429390	Shunt release	24V DC
LV429391	Shunt release	30V DC
LV429392	Shunt release	48V DC
LV429383	Shunt release	60V DC
LV429393	Shunt release	125V DC
LV429394	Shunt release	250V DC
LV429402	Undervoltage release	12V DC
LV429410	Undervoltage release	24V DC
LV429411	Undervoltage release	30V DC
LV429412	Undervoltage release	48V DC
LV429403	Undervoltage release	60V DC
LV429413	Undervoltage release	125V DC
LV429414	Undervoltage release	250V DC



Auxiliary Contacts (**Changeover**)

Product Code	Description
29450	OF or SD or SDE or SDV
29452	OF or SD or SDE or SDV low level
LV429451	SDE adaptor, mandatory for trip unit TM, MA or Micrologic 2

Rotary Handles

Product Code	Description
LV429337	Direct rotary handle, with black handle
LV429338	Extended rotary handle, with black handle

Locks

Product Code	Description
29370	Toggle locking device for 1 to 3 padlocks, by removable device
29371	Toggle locking device for 1 to 3 padlocks, by fixed device
LV429344	Keylock adaptor (keylock not included)
41940	Keylock (keylock adaptor not included), Ronis 1351B.500
42888	Keylock (keylock adaptor not included) Profalux KS5 B24 D4Z



EasyPact CVS Moulded Circuit Breakers | 400/630



Product Code	Protected Poles	Rating	Description
ZZA_LV540305	3P 3d	320A	EasyPact CVS400F (36kA at 380/415V)
ZZA_LV540308	4P 3d	320A	EasyPact CVS400F (36kA at 380/415V)
ZZA_LV540311	4P 4d	320A	EasyPact CVS400F (36kA at 380/415V)
ZZA_LV540306	3P 3d	400A	EasyPact CVS400F (36kA at 380/415V)
ZZA_LV540309	4P 3d	400A	EasyPact CVS400F (36kA at 380/415V)
ZZA_LV540312	4P 4d	400A	EasyPact CVS400F (36kA at 380/415V)
ZZA_LV563305	3P 3d	500A	EasyPact CVS630N (36kA at 380/415V)
ZZA_LV563308	4P 3d	500A	EasyPact CVS630N (36kA at 380/415V)
ZZA_LV563311	4P 4d	500A	EasyPact CVS630N (36kA at 380/415V)
ZZA_LV563306	3P 3d	600A	EasyPact CVS630N (36kA at 380/415V)
ZZA_LV563309	4P 3d	600A	EasyPact CVS630N (36kA at 380/415V)
ZZA_LV563312	4P 4d	600A	EasyPact CVS630N (36kA at 380/415V)

EasyPact CVS Moulded Circuit Breakers | 400/630



Product Code	Protected Poles	Rating	Description
ZZA_LV540315	3P 3d	320A	EasyPact CVS400F (50kA at 380/415V)
ZZA_LV540321	4P 3d	320A	EasyPact CVS400F (50kA at 380/415V)
ZZA_LV540316	3P 3d	400A	EasyPact CVS400F (50kA at 380/415V)
ZZA_LV540322	4P 3d	400A	EasyPact CVS400F (50kA at 380/415V)
ZZA_LV563315	3P 3d	500A	EasyPact CVS630F (50kA at 380/415V)
ZZA_LV563318	4P 3d	500A	EasyPact CVS630F (50kA at 380/415V)
ZZA_LV563321	4P 4d	500A	EasyPact CVS630F (50kA at 380/415V)
ZZA_LV563316	3P 3d	600A	EasyPact CVS630F (50kA at 380/415V)
ZZA_LV563319	4P 3d	600A	EasyPact CVS630F (50kA at 380/415V)
ZZA_LV563322	4P 4d	600A	EasyPact CVS630F (50kA at 380/415V)

EasyPact CVS Moulded Circuit Breakers | 400/630



Product Code	Protected Poles	Rating	Description
ZZA_LV540550	3P 3d	320A	EasyPact CVS400F (36kA at 380/415V)
ZZA_LV540552	3P 3d	320A	EasyPact CVS400N (50kA at 380/415V)
ZZA_LV563550	3P 3d	500A	EasyPact CVS630F (36kA at 380/415V)
ZZA_LV563552	3P 3d	500A	EasyPact CVS630N (50kA at 380/415V)

EasyPact CVS Moulded Circuit Breakers | 400/630



Product Code	Protected Poles	Amps	Description
LV540505	3P 3d	400A	EasyPact CVS400F (36kA at 380/415V)
LV563505	3P 3d	630A	EasyPact CVS630F (36kA at 380/415V)
LV540510	3P 3d	400A	EasyPact CVS400N (50kA at 380/415V)
LV563510	3P 3d	630A	EasyPact CVS630N (50kA at 380/415V)



EasyPact CVS Switch-Disconnecter | 400/630



Product Code	Poles	Amps	Description
LV540400	3P	400A	EasyPact CVS400 NA
LV540401	4P	400A	EasyPact CVS400 NA
LV563400	3P	600A	EasyPact CVS600 NA, 45mm pitch
LV563401	4P	600A	EasyPact CVS600 NA, 45mm pitch

EasyPact CVS Accessories | 400/630



Product Code	Poles	Description
LV432591	3P	Short terminal shield, 45mm (1 piece)
LV432592	4P	Short terminal shield, 45mm (1 piece)
LV432593	3P	Long terminal shield, 45mm (1 piece)
LV432594	4P	Long terminal shield, 45mm (1 piece)
LV432570		Set of 6Interphase barriers
LV432595	3P	Long terminal shielded for spreaders, 52.5mm (1 piece, supplied with insulating plate)
LV432596	4P	Long terminal shielded for spreaders, 52.5mm (1 piece, supplied with insulating plate)
LV432578	3P	2 insulating screens (70mm pitch)
LV432579	4P	2 insulating screens (70mm pitch)

Accessories EasyPact and Vigi CVS400/630



Shunt trip and Undervoltage Trip Releases AC and DC Control

Product Code	Function	Voltage
LV429384	MX Shunt trips	24V AC 50 / 60Hz
LV429385	MX Shunt trips	48V AC 50 / 60Hz
LV429386	MX Shunt trips	110-130V AC 50 / 60Hz
LV429387	MX Shunt trips	220-240V AC 50 / 60Hz and 208-277V 60Hz
LV429388	MX Shunt trips	380-415V AC 50Hz and 440-480V AC 60Hz
LV429404	MN undervoltage release	24V AC 50 / 60Hz
LV429405	MN undervoltage release	48V AC 50 / 60Hz
LV429406	MN undervoltage release	110-130V AC 50 / 60Hz
LV429407	MN undervoltage release	220-240V AC 50 / 60Hz and 208-277V 60Hz
LV429408	MN undervoltage release	380-415V AC 50Hz and 440-480V AC 60Hz
LV429382	MX Shunt trips	12V DC
LV429390	MX Shunt trips	24V DC
LV429391	MX Shunt trips	30V DC
LV429392	MX Shunt trips	48V DC
LV429383	MX Shunt trips	60V DC
LV429393	MX Shunt trips	125V DC
LV429394	MX Shunt trips	250V DC
LV429402	MN undervoltage release	12V DC
LV429410	MN undervoltage release	24V DC
LV429411	MN undervoltage release	30V DC
LV429412	MN undervoltage release	48V DC
LV429403	MN undervoltage release	60V DC
LV429413	MN undervoltage release	125V DC
LV429414	MN undervoltage release	250V DC



Voltage Release And Time Delay Relay

Voltage Release  Time Delay unit 	Product Code	Function	Voltage
	LV429426	Time delay relay for MN voltage release	48V AC 50 / 60Hz
	LV429427	Time delay relay for MN voltage release	220-240V AC 50 / 60Hz
	33680	Adjustable time delay relay for voltage release MN.	48-60V AC 50 / 60Hz 48-60V DC
	33681	Adjustable time delay relay for voltage release MN.	100-130V AC 50 / 60Hz 100-130V DC
	33682	Adjustable time delay relay for voltage release MN	200-250V AC 50 / 60Hz 200-250V DC

EasyPact CVS Accessories 400/630

	Auxiliary Contacts Changeover	
	Product Code	Description
	29450	OF or SD or SDE or SDV
	29452	OF or SD or SDE or SDV low level
	LV540050	SDE adaptor, mandatory for trip unit TM, MA or Micrologic 2
	Rotary Handles	
	Product Code	Description
	LV432597	Direct rotary handle, with black handle
	LV432598	Extended rotary handle, with black handle

Easy 9 Miniature Circuit Breakers | 3kA | Curve C | 1 to 2-Pole

	Product Code	Description
	EZ9F53106	Easy9 MCB 1P, 6A C 3kA
	EZ9F53110	Easy9 MCB 1P, 10A C 3kA
	EZ9F53116	Easy9 MCB 1P, 16A C 3kA
	EZ9F53120	Easy9 MCB 1P, 20A C 3kA
	EZ9F53125	Easy9 MCB 1P, 25A C 3kA
	EZ9F53132	Easy9 MCB 1P, 32A C 3kA
	EZ9F53140	Easy9 MCB 1P, 40A C 3kA
	EZ9F53150	Easy9 MCB 1P, 50A C 3kA
	EZ9F53163	Easy9 MCB 1P, 63A C 3kA
	EZ9F53206	Easy9 MCB 2P, 6A C 3kA
	EZ9F53210	Easy9 MCB 2P, 10A C 3kA
	EZ9F53216	Easy9 MCB 2P, 16A C 3kA
	EZ9F53220	Easy9 MCB 2P, 20A C 3kA
	EZ9F53225	Easy9 MCB 2P, 25A C 3kA
	EZ9F53232	Easy9 MCB 2P, 32A C 3kA
	EZ9F53240	Easy9 MCB 2P, 40A C 3kA
	EZ9F53250	Easy9 MCB 2P, 50A C 3kA
	EZ9F53263	Easy9 MCB 2P, 63A C 3kA



Easy 9 Miniature Circuit Breakers | 3kA | Curve C | 3 to 4-Pole



Product Code	Description
EZ9F53306	Easy9 MCB 3P, 6A C 3kA
EZ9F53310	Easy9 MCB 3P, 10A C 3kA
EZ9F53316	Easy9 MCB 3P, 16A C 3kA
EZ9F53320	Easy9 MCB 3P, 20A C 3kA
EZ9F53325	Easy9 MCB 3P, 25A C 3kA
EZ9F53332	Easy9 MCB 3P, 32A C 3kA
EZ9F53340	Easy9 MCB 3P, 40A C 3kA
EZ9F53350	Easy9 MCB 3P, 50A C 3kA
EZ9F53363	Easy9 MCB 3P, 63A C 3kA
EZ9F53406	Easy9 MCB 4P, 6A C 3kA
EZ9F53410	Easy9 MCB 4P, 10A C 3kA
EZ9F53416	Easy9 MCB 4P, 16A C 3kA
EZ9F53420	Easy9 MCB 4P, 20A C 3kA
EZ9F53425	Easy9 MCB 4P, 25A C 3kA
EZ9F53432	Easy9 MCB 4P, 32A C 3kA
EZ9F53440	Easy9 MCB 4P, 40A C 3kA
EZ9F53450	Easy9 MCB 4P, 50A C 3kA
EZ9F53463	Easy9 MCB 4P, 63A C 3kA

Easy 9 Earth Leakage Range



Product Code	Description
EZ9R03263	Easy9 RCCB 2P, 63A 30MA AC-type 230V EL
EZ9R03463	Easy9 RCCB 4P, 63A 30MA AC-type 400V EL

Easy 9 Switch Disconnecter Range



2-pole

Product Code	Description
EZ9S16163	Easy9 Switch Disconnecter 1P, 63A 230V
EZ9S16263	Easy9 Switch Disconnecter 2P, 63A 400V
EZ9S16363	Easy9 Switch Disconnecter 3P, 63A 400V
EZ9S16463	Easy9 Switch Disconnecter 4P, 63A 400V

ACTi9 IC60N Miniature Circuit Breakers | 6Ka | C-curve



Product Code	Pole	Product Code	Pole	Product Code	Pole	Product Code	Pole	Amps	Modules Width	Type
A9F64101	1	A9F64201	2	A9F64301	3	A9F64401	4	1A	9mm	C-curve
A9F64102	1	A9F64202	2	A9F64302	3	A9F64402	4	2A	9mm	C-curve
A9F64103	1	A9F64203	2	A9F64303	3	A9F64403	4	3A	9mm	C-curve
A9F64106	1	A9F64206	2	A9F64306	3	A9F64406	4	6A	9mm	C-curve
A9F64110	1	A9F64210	2	A9F64310	3	A9F64410	4	10A	9mm	C-curve
A9F64116	1	A9F64216	2	A9F64316	3	A9F64416	4	16A	9mm	C-curve
A9F64120	1	A9F64220	2	A9F64320	3	A9F64420	4	20A	9mm	C-curve
A9F64125	1	A9F64225	2	A9F64325	3	A9F64425	4	25A	9mm	C-curve
A9F64132	1	A9F64232	2	A9F64332	3	A9F64432	4	32A	9mm	C-curve
A9F64140	1	A9F64240	2	A9F64340	3	A9F64440	4	40A	9mm	C-curve
A9F64150	1	A9F64250	2	A9F64350	3	A9F64450	4	50A	9mm	C-curve
A9F64163	1	A9F64263	2	A9F64363	3	A9F64463	4	63A	9mm	C-curve
SABS Approved										

ACTi9 IC60N Miniature Circuit Breakers | 10ka | D-curve



Product Code	Pole	Product Code	Pole	Product Code	Pole	Product Code	Pole	Amps	Module Width	Type
A9F75101	1	A9F75201	2	A9F75301	3	A9F75401	4	1A	9mm	D-curve
A9F75102	1	A9F75202	2	A9F75302	3	A9F75402	4	2A	9mm	D-curve
A9F75103	1	A9F75203	2	A9F75303	3	A9F75403	4	3A	9mm	D-curve
A9F75104	1	A9F75204	2	A9F75304	3	A9F75404	4	4A	9mm	D-curve
A9F75106	1	A9F75206	2	A9F75306	3	A9F75406	4	6A	9mm	D-curve
A9F75110	1	A9F75210	2	A9F75310	3	A9F75410	4	10A	9mm	D-curve
A9F75113	1	A9F75213	2	A9F75313	3	A9F75413	4	13A	9mm	D-curve
A9F75116	1	A9F75216	2	A9F75316	3	A9F75416	4	16A	9mm	D-curve
A9F75120	1	A9F75220	2	A9F75320	3	A9F75420	4	20A	9mm	D-curve
A9F75125	1	A9F75225		A9F75325	3	A9F75425	4	25A	9mm	D-curve
A9F75132	1	A9F75232	2	A9F75332	3	A9F75432	4	32A	9mm	D-curve
A9F75140	1	A9F75240	2	A9F75340	3	A9F75440	4	40A	9mm	D-curve
A9F75150	1	A9F75250	2	A9F75350	3	A9F75450	4	50A	9mm	D-curve

ACTi9 Switch Disconnectors | Isolators



Product Code	Pole	Product Code	Pole	Product Code	Pole	Product Code	Pole	Amps	Voltage
A9S65140	1	A9S65240	2	A9S65340	3	A9S65440	4	40A	250V AC
A9S65163	1	A9S65263	2	A9S65363	3	A9S65463	4	63A	415V AC
A9S65191	1	A9S65291	2	A9S65391	3	A9S65491	4	100A	415V AC
A9S65192	1	A9S65292	2	A9S65392	3	A9S65492	4	125A	415V AC

ACti9 Earth Leakage Protection



2 Pole (240V AC)



4 Pole (415V AC)

Product Code	Rated Current	Product Code	Rated Current	Amps	Product Code	Rated Current	Product Code	Rated Current	Amps
A9R41225	30mA	A9R44225	300mA	25A	A9R41425	30mA	A9R44425	300mA	25A
A9R41240	30mA	A9R44240	300mA	40A	A9R41440	30mA	A9R44440	300mA	40A
A9R41263	30mA	A9R44263	300mA	63A	A9R41463	30mA	A9R44463	300mA	63A
A9R11280	30mA	A9R14280	300mA	80A	A9R11480	30mA	A9R14480	300mA	80A
A9R11291	30mA	A9R14291	30mA	100A	A9R11491	30mA	A9R14491	30mA	100A

ACti9 Electrical Auxiliaries for C60a and C60N



Product Code	Type	AC Rated Voltage	DC Rated Voltage	Operating Frequency
A9A26960	UnderVoltage release, Instantaneous	220...240V AC	-	50/60Hz
A9A26959	UnderVoltage release, Instantaneous	115V AC	48V DC	400Hz
A9A26963	UnderVoltage release, Delayed	220...240V AC	-	50/60Hz
A9A26969	UnderVoltage release, Independent of the supplyVoltage	220...240V AC	-	50/60Hz
A9A26476	Shunt release	100...415V AC	110...130V DC	50/60Hz
A9A26946	Shunt release with Open / Close auxiliary contact	100...415V AC	110...130V DC	50/60Hz
A9A26947	Shunt release with Open / Close auxiliary contact	48V AC	48V DC	50/60Hz
A9A26948	Shunt release with Open / Close auxiliary contact	12...24V AC	12...24V DC	50/60Hz
A9A26924	Open / Close auxiliary contact			
A9A26927	Fault indicate Contact			
A9A26929	Double Open / Close fault indicate contact			
Module width 9mm.				

Busbar Range for Easy 9 and ACti 9 Range



Product Code	Description
A9XPH112	1 Pole 12 modules of 18mm
A9XPH124	1 Pole 24 modules of 18mm
A9XPH312	3 Pole 12 modules of 18mm
A9XPH324	3 Pole 24 modules of 18mm

ACti9 C120a Circuit Breaker | 5kA | C-curve



1-pole

Product Code	Poles	Rated Current	Rated Voltage	Operating Frequency
A9N60708	1P	80A	230...400V AC	50 / 60Hz
A9N60711	2P	80A	230...400V AC	50 / 60Hz
A9N60714	3P	80A	230...400V AC	50 / 60Hz
A9N60717	4P	80A	230...400V AC	50 / 60Hz
A9N60709	1P	100A	230...400V AC	50 / 60Hz
A9N60712	2P	100A	230...400V AC	50 / 60Hz
A9N60715	3P	100A	230...400V AC	50 / 60Hz
A9N60718	4P	100A	230...400V AC	50 / 60Hz

ACTi9 C120N Circuit Breaker | 10kA | D-curve



2-pole

Product Code	Poles	Rated Current	Rated Voltage	Operating Frequency
A9N60729	1P	80A	230...400V AC	50 / 60Hz
A9N60733	2P	80A	230...400V AC	50 / 60Hz
A9N60737	3P	80A	230...400V AC	50 / 60Hz
A9N60741	4P	80A	230...400V AC	50 / 60Hz
A9N60730	1P	100A	230...400V AC	50 / 60Hz
A9N60734	2P	100A	230...400V AC	50 / 60Hz
A9N60738	3P	100A	230...400V AC	50 / 60Hz
A9N60742	4P	100A	230...400V AC	50 / 60Hz

ACTi9 C120N Circuit Breaker | 10kA | C-curve



3-pole

Product Code	Poles	Rated Current	Rated Voltage	Operating Frequency
A9N60745	1P	80A	230...400V AC	50 / 60Hz
A9N60749	2P	80A	230...400V AC	50 / 60Hz
A9N60753	3P	80A	230...400V AC	50 / 60Hz
A9N60757	4P	80A	230...400V AC	50 / 60Hz
A9N60746	1P	100A	230...400V AC	50 / 60Hz
A9N60750	2P	100A	230...400V AC	50 / 60Hz
A9N60754	3P	100A	230...400V AC	50 / 60Hz
A9N60758	4P	100A	230...400V AC	50 / 60Hz

Harmony XB4 | Metal Pushbuttons Ø22



Complete with contact

body

head

Flush Mounting Pushbuttons Unmarked | Screw Clamp Terminals

Product Code	Model	Product Code	Model	Product Code	Model	Colour	Contact
XB4BA11	Complete	-	Body + Contact	ZB4BA1	Head	White	N/O
XB4BA21	Complete	ZB4BZ101	Body + Contact	ZB4BA2	Head	Black	N/O
XB4BA31	Complete	-	Body + Contact	ZB4BA3	Head	Green	N/O
XB4BA42	Complete	ZB4BZ102	Body + Contact	ZB4BA4	Head	Red	N/C
XB4BA51	Complete	ZB4BZ101	Body + Contact	ZB4BA5	Head	Yellow	N/O
XB4BA61	Complete	-	Body + Contact	ZB4BA6	Head	Blue	N/O

*Body and contact ordered seperately



Complete with contact

body

head

Booted Flush Mounting Pushbuttons Unmarked | Screw Clamp Terminals

Product Code	Model	Product Code	Model	Product Code	Model	Colour	Contact
XB4BP11	Complete	-	Body + Contact	ZB4BP1	Head	White	N/O
XB4BP21	Complete	ZB4BZ101	Body + Contact	ZB4BP2	Head	Black	N/O
XB4BP31	Complete	-	Body + Contact	ZB4BP3	Head	Green	N/O
XB4BP42	Complete	ZB4BZ102	Body + Contact	ZB4BP4	Head	Red	N/C
XB4BP51	Complete	ZB4BZ101	Body + Contact	ZB4BP5	Head	Yellow	N/O
XB4BP61	Complete	-	Body + Contact	ZB4BP6	Head	Blue	N/O

*Body and contact ordered seperately



Flush Mounting Pushbuttons Marked | Screw Clamp Terminals

Product Code	Model	Product Code	Model	Product Code	Model	Colour	Contact	Mark
XB4BA3341	Complete	-	Body + Contact	ZB4BA334	Head	White	N/O	Black arrow up
XB4BA3351	Complete	ZB4BZ101	Body + Contact	ZB4BA335	Head	Black	N/O	White arrow down
XB4BA3311	Complete	-	Body + Contact	ZB4BA331	Head	Green	N/O	"I" white
XB4BL4322	Complete	ZB4BZ102	Body + Contact	ZB4BZ432	Head	Red	N/C	"O" white
-	Complete	ZB4BZ101	Body + Contact	ZB4BA333	Head	Green	N/O	"Start" white
-	Complete	ZB4BZ102	Body + Contact	ZB4BA434	Head	Red	N/C	"Stop" white

***Body and contact ordered seperately**



Emergency Stop Trigger ACTion, Ø40 Mushroom Head Pushbuttons | Screw Clamp Terminals

Product Code	Model	Product Code	Model	Product Code	Model	Colour	Contact
XB4BT845	Complete	-	Body + Contact	ZB4BT84	Head	Red	N/O + N/C Push-pull
XB4BS8445	Complete	ZB4BZ105	Body + Contact	ZB4BS844	Head	Red	N/O + N/C Turn to release
XB4BS9445	Complete	-	Body + Contact	ZB4BS944	Head	Red	N/O + N/C Key release (N°455)

***Body and contact ordered seperately**

Complete with contact



Ø40 Mushroom Head Pushbuttons, Spring Return | Screw Clamp Terminals

Product Code	Model	Product Code	Model	Product Code	Model	Colour	Contact
XB4BC21	Complete	-	Body + Contact	ZB4BC2	Head	Black	N/O Push pull
-	Complete	ZB4BZ101	Body + Contact	ZB4BC3	Head	Green	N/O Push pull
-	Complete	-	Body + Contact	ZB4BC6	Head	Blue	N/O Push pull

***Body and contact ordered seperately**

Harmony XB4 | Pilot Lights and Metal Pushbuttons Ø22



Pilot Lights With Integral LED | Screw Clamp Terminals | Complete Units

Product Code	Power Supply	Product Code	Power Supply	Product Code	Power Supply	Colour
XB4BVB1	110...120V AC	XB4BVG1	230...240V AC	XB4BVM1	24V AC/DC	White
XB4BVB3	110...120V AC	XB4BVG3	230...240V AC	XB4BVM3	24V AC/DC	Green
XB4BVB4	110...120V AC	XB4BVG4	230...240V AC	XB4BVM4	24V AC/DC	Red
XB4BVB5	110...120V AC	XB4BVG5	230...240V AC	XB4BVM5	24V AC/DC	Orange
XB4BVB6	110...120V AC	XB4BVG6	230...240V AC	XB4BVM6	24V AC/DC	Blue

*Includes body with head and LED module



Flush Mounting Illuminated Pushbuttons With Integral LED | Screw Clamp Terminals | Complete Units

Product Code	Power Supply	Product Code	Power Supply	Product Code	Power Supply	Colour
XB4BW31B5	24V AC/DC	XB4BW31G5	110...120V AC	XB4BW31M5	230...240V AC	White
XB4BW33B5	24V AC/DC	XB4BW33G5	110...120V AC	XB4BW34M5	230...240V AC	Green
XB4BW34B5	24V AC/DC	XB4BW34G5	110...120V AC	XB4BW35M5	230...240V AC	Red
XB4BW35B5	24V AC/DC	XB4BW35G5	110...120V AC	XB4BW36M5	230...240V AC	Orange
XB4BW36B5	24V AC/DC	XB4BW36G5	110...120V AC	XB4BW36M5	230...240V AC	Blue

*Includes body with head | Contact for the all of the above is N/O + N/C

Selector Switches + Key Switch | Complete Units

Product Code Head	Product Code Complete	Handle	Product Code Complete	Handle	Product Code Complete	Handle	Position	Contact
ZB4BD2	XB4BD21	Black handle Short	XB4BJ21	Long black handle	XB4BG21	Key Switch (455)	2 Stay put	N/O
ZB4BD4	XB4BD41	Black handle Short	-	Long black handle	XB4BG61	Key Switch (455)	2 Spring return	N/O + N/C
ZB4BD2	XB4BD25	Black handle Short	-	Long black handle	-	Key Switch (455)	3 Stay put	N/O+ N/C
ZB4BD3	XB4BD33	Black handle Short	XB4BJ33	Long black handle	XB4BG33	Key Switch (455)	2 Stay put	2N/O
ZB4BD5	XB4BD53	Black handle Short	XB4BJ53	Long black handle	-	Key Switch (455)	3 Spring return to centre	2N/O

*Includes body with head and contact block. | ZB4 is head only. (Selector switch)

Illuminated Selector Switches With Integral LED and Colour Handle | Contact 1N/O + 1N/C

Product Code	Power Supply	Product Code	Power Supply	Product Code	Power Supply	Colour
XB4BK123B5	24V AC/DC	XB4BK123G5	110...120V AC	XB4BK123M5	230...240V AC	Green
XB4BK124B5	24V AC/DC	XB4BK124G5	110...120V AC	XB4BK124M5	230...240V AC	Red
XB4BK125B5	24V AC/DC	XB4BK125G5	110...120V AC	XB4BK125M5	230...240V AC	Orange
XB4BK133B5	24V AC/DC	XB4BK133G5	110...120V AC	XB4BK133M5	230...240V AC	Green
XB4BK134B5	24V AC/DC	XB4BK134G5	110...120V AC	XB4BK134M5	230...240V AC	Red
XB4BK135B5	24V AC/DC	XB4BK135G5	110...120V AC	XB4BK135M5	230...240V AC	Orange

*Includes body with head | Contact for the all of the above is 1N/O + 1N/C

Dual Pushbutton | Screw Clamp Terminal

Product Code	Model	Product Code	Model	Product Code	Model	Operator Profile	Contact
XB4BL73415	Complete	ZB4BZ105	Body	ZB4BL7341	Head	1 Flush, 1 Projecting	N/O + N/C
-	Complete		Body	ZB4BA7121	Head	2 Flush, 1 Projecting	N/O + N/C
XB4BW73731B5	Complete	ZB4BZ105 + ZBVB1	Body	ZB4B-W7L3741	Head	1 Flush, 1 Projecting	N/O + N/C with 24V DC pilot light
-	Complete		Body	ZB4B-W7A1721	Head	2 Flush, 1 Projecting	
XB4BA731327	Complete	ZB4BZ103 + ZBE102	Body	ZB4BA73132	Head	2 Flush + 1 Red Central Projecting	2 N/O + N/C
-	Complete	-	Body	ZB4BA71124	Head	2 flush - 1 central projecting	2 N/O + N/C

*Includes contact blocks + bezel | Contact for all the above is 1N/O + 1N/C

Harmony XB4 Accessories

Product Code	Contact Blocks	Contact	Connection	Contact Blocks
ZBE101	Electrical blocks only (for mounting on bezel)	N/O	Screw clamp terminals	Electrical blocks only (for mounting on bezel)
ZBE102	Electrical blocks only (for mounting on bezel)	N/C	Screw clamp terminals	-
ZBE1015	Electrical blocks only (for mounting on bezel)	N/O	Spring clamp terminals	-
ZBE1025	Electrical blocks only (for mounting on bezel)	N/C	Spring clamp terminals	-
ZB4BZ009	Body fixing collar for XB4 only (bezel)	-	-	Body fixing collar for XB4 only (bezel)

Light Blocks With Integral LED

Product Code	Voltage	Colour	Current Consumption	Service Life	IP Rating
ZBVB1	24V AC/DC	White	15 mA	100,000 Hours at Rated Voltage and 25°C	IP20
ZBVB4	24V AC/DC	Red	15 mA		IP20
ZBVG1	110...120V AC	White	19 mA		IP20
ZBVG3	110...120V AC	Green	19 mA		IP20
ZBVM1	230...240V AC	Red	19 mA		IP20

Legend Holders



Product Code	Type	Description
ZBY2931	O	Legend holders 30 x 40mm for 8 x 27mm legend - White marking/Red or black background
ZBY2312	OFF	Legend holders 30 x 40mm for 8 x 27mm legend - White marking/Red or black background
ZBY2147	I	Legend holders 30 x 40mm for 8 x 27mm legend - White marking/Red or black background
ZBY2311	ON	Legend holders 30 x 40mm for 8 x 27mm legend - White marking/Red or black background
ZBY2115	AUTO	Legend holders 30 x 40mm for 8 x 27mm legend - White marking/Red or black background
ZBY2303	START	Legend holders 30 x 40mm for 8 x 27mm legend - White marking/Red or black background
ZBY9330	Ø60mm for emergency stop	Black marking/Yellow background
ZBY9320	Emergency stop 3D label	Black marking/Yellow background
ZBY2101	-	Without Marking/Red Or Black Background
ZBY2101	-	Without Marking/Red Or Black Background
ZBY9140	-	Without Marking/Yellow Background
ZBY9121	-	Without Marking/Yellow Background

Harmony Easy XA2 - Pilot Lights | Economy Plastic Range



24V AC/DC Pilot Lights | Complete

Product Code	Description
XA2EVB1LC	Pilot light, 24V AC/DC , White
XA2EVB3LC	Pilot light, 24V AC/DC , Green
XA2EVB4LC	Pilot light, 24V AC/DC , Red
XA2EVB5LC	Pilot light, 24V AC/DC , Yellow
XA2EVB6LC	Pilot light, 24V AC/DC , Blue

110V AC Pilot Lights | Complete

Product Code	Description
XA2EVF1LC	Pilot light, 110V AC, White
XA2EVF3LC	Pilot light, 110V AC, Green
XA2EVF4LC	Pilot light, 110V AC, Red
XA2EVF5LC	Pilot light, 110V AC, Yellow
XA2EVF6LC	Pilot light, 110V AC, Blue

220V AC Pilot Lights | Complete

Product Code	Description
XA2EVM1LC	Pilot light, 220V AC, White
XA2EVM3LC	Pilot light, 220V AC, Green
XA2EVM4LC	Pilot light, 220V AC, Red
XA2EVM5LC	Pilot light, 220V AC, Yellow
XA2EVM6LC	Pilot light, 220V AC, Blue

380V AC Pilot Lights | Complete

Product Code	Description
XA2EVQ1LC	Pilot light, <380V AC, White
XA2EVQ3LC	Pilot light, <380V AC, Green
XA2EVQ4LC	Pilot light, <380V AC, Red
XA2EVQ5LC	Pilot light, <380V AC, Yellow
XA2EVQ6LC	Pilot light, <380V AC, Blue



Harmony Control Stations XA2 | Economy Plastic Range - M22



Empty Enclosure

Product Code	Description
XALE1	1Pole, empty station with knockouts
XALE2	2Pole, empty station with knockouts
XALE3	3Pole, empty station with knockouts



Spring Return Flush Push Buttons Enclosed | Complete

Product Code	Description
XALE1011	Green button - 1N/O contact
XALE1013	Green button - 2N/O contact
XALE1021	Green button with white marking - 'I' - 1N/O
XALE1031	Green button with white marking - 'START' - 1N/O
XALE1112	Red button - 1N/C contact, complete



Spring Return Flush Push Buttons Enclosed | Complete

Product Code	Description
XALE2011	Start/Stop station 1N/O + 1N/C
XALE2015	Start/Stop station 2N/O Green + 1 C/O Red
XALE2141	Start/Stop station 1N/O + 1N/C with markings
XALE3251	3 Button Station 1 N/O + 2N/C
XALK178	Emergency stop station twist to release, 1N/C



Harmony Easy XA2 | Economy Plastic Range - Push Buttons



Spring Return Flush Push Button | Complete

Product Code	Description
XA2EA11	Push button, Spring return, flush, 1N/O, White
XA2EA21	Push button, Spring return, flush, 1N/O, Black
XA2EA31	Push button, Spring return, flush, 1N/O, Green
XA2EA51	Push button, Spring return, flush, 1N/C, Yellow
XA2EA61	Push button, Spring return, flush, 1N/O, Blue
XA2EA42	Push button, Spring return, flush, 1N/C, Red

Illuminated Push Buttons | Complete



Product Code	Description
XA2EW31B1	Flush, IPB, 24V AC/DC . 1N/O, White
XA2EW33B1	Flush, IPB, 24V AC/DC . 1N/O, Green
XA2EW34B1	Flush, IPB, 24V AC/DC . 1N/O, Red
XA2EW35B1	Flush, IPB, 24V AC/DC . 1N/O, Yellow
XA2EW36B1	Flush, IPB, 24V AC/DC . 1N/O, Blue
XA2EW31M1	Flush, IPB, 220V AC. 1N/O, White
XA2EW33M1	Flush, IPB, 220V AC 1N/O, Green
XA2EW34M1	Flush, IPB, 220V AC. 1N/O, Red
XA2EW35M1	Flush, IPB, 220V AC. 1N/O, Yellow
XA2EW36M1	Flush, IPB, 220V AC. 1N, Blue
XA2EW33Q1	Flush, IPB, 380V AC. 1N/O, Green
XA2EW34Q1	Flush, IPB, 380V AC. 1N/O, Red
XA2EW35Q1	Flush, IPB, 380V AC. 1N/O, Yellow



Harmony Easy XA2 | Economy Plastic Range - Selector Switch + Key Switch



Selector switch



Key selector switch

Selector Switch | Complete

Product Code	Description
XA2ED21	Selector switch, Short handle, 2 positions, stay put 1N/O
XA2ED25	Selector switch, Short handle, 2 positions, stay put 1 N/O+1N/C
XA2ED33	Selector switch, Short handle, 3 Positions, stay put 2N/O
XA2ED53	Selector switch, Short handle, 3 Positions, spring return from the center 2N/O
XA2EG21	Key selector switch, 2 positions, stay put ,left side pullout 1N/O
XA2EG33	Key selector switch, 3 positions, stay put, middle pullout 2N/O

Harmony Easy XA2 | Economy Plastic Range -Emergency Stops + Mushroom Push Buttons



Emergency switching



Push Button



Contact block

Emergency Switching

Product Code	Description
XA2ET42	Complete emergency switching off, Push pull Dia 40, 1N/C, Red
XA2ES542	Complete emergency switching off,Turn to release Dia 40, 1N/C, Red
XA2EC21	Complete push button, Mushroom head Dia 40, 1N/O, Black
XA2EC31	Complete push button, Mushroom head Dia 40,1N/O, green
XA2EC42	Complete push button, Mushroom head Dia 40,1N/C, Red

Additional Contact Blocks

Product Code	Description
ZA2EE101	Contact block, 1N/O
ZA2EE102	Contact block, 1N/C



Renewable Energy

Rubicon has a strong portfolio of renewable energy components for the panel-building sector. We value reputable European brands that are well-stocked and competitively priced. Our selection includes trusted names such as Telergon, Citel, Stäubli, and Bussmann.



PV Connectors



Stäubli MC4 MULTILAM Technology:

MULTILAM are specially formed, resilient copper-alloy contact elements that are silver or gold plated depending on their application, and are float mounted in a groove. Thanks to their constant spring pressure, MULTILAM louvres maintain continuous contact with the contact surface, resulting in a low and constant contact resistance. MULTILAM technology allows us to meet a very broad range of requirements and to find solutions within the severest constraints, including electrical (up to several kA), thermal (up to 350°C), and mechanical, with contact durability of up to 1 million mating cycles.

MC4 MULTILAM Technology



- Snap-in lock
- Locking by safety lock clip PV-SSH4 in accordance with NEC 2011, can be released only with a tool
- Proven MULTILAM technology with high long-term stability, which ensures consistently low performance loss throughout the entire service life of the plug connector

- Tried and tested plug connectors, 12 years of experience in the field
- Available for assembly with cross-sections of 10mm²

MC4 Inline Connectors MC4-EVO 2 (1500V DC)

Female and male cable coupler as individual part (including insulating part)

Product Code	Description
32.0086P0001-UR	PV-KBT4-EVO 2 / 6I-UR, Female cable coupler, Crimp (4mm ² - 6mm ²), Cable (OD 4.7mm - 6.1mm), Inline
32.0316P0001	PV-KBT4-EVO 2A/6I, MC4-Evo 2 Coupler, Female, 1500V DC , 45A, Inline (4mm - 6mm)
32.0087P0001-UR	PV-KST4-EVO 2 / 6I-UR, Male cable coupler, Crimp (4mm ² - 6mm ²), Cable (OD 4.7mm - 6.1mm)
32.0317P0001	PV-KST4-EVO 2A/6I MC4-Evo 2 Coupler, Female, 1500V DC , 45A, Inline (4mm - 6mm)
32.0092P0001-UR	PV-KBT4-EVO 2 / 10III-UR, Female cable coupler, Crimp (10mm ²), Cable (OD 7.7mm - 8.5mm), Inline
32.0324P0001	PV-KBT4-EVO 2A/10II, Female cable coupler MC4-Evo 2A, Inline (10mm)
32.0093P0001-UR	PV-KST4-EVO 2 / 10III-UR, Male cable coupler, Crimp (10mm ²), Cable (OD 7.7mm - 8.5mm), Inline
32.0325P0001	PV-KST4-EVO 2A/10II, Male cable coupler MC4-Evo 2A, Inline (10mm)



MC4 Inline Connectors (1000V DC)

The MC4 is the benchmark solar connector. Easy to use and constructed of high quality materials. The patented multilam insert ensures the best possible electrical connection for 1000V DC connections. Available for PV cable sizes 4mm² – 10mm².

Product Code	Description
*32.0014P0001-UR	PV-KST4 / 6I-UR, MC4 Inline, Female, Crimp (4mm ² - 6mm ²), Cable (OD 3mm - 6mm)
*32.0015P0001-UR	PV-KBT4 / 6I-UR, MC4 Inline, Male, Crimp (4mm ² - 6mm ²), Cable (OD 3mm - 6mm)
*32.0016P0001-UR	PV-KBT4 / 6II-UR, MC4 Inline, Female, Crimp (4mm ² - 6mm ²), Cable (OD 5.5mm - 9mm)
*32.0017P0001-UR	PV-KST4 / 6II-UR, MC4 Inline, Male, Crimp (4mm ² - 6mm ²), Cable (OD 5.5mm - 9mm)

*Please contact us for volume pricing! *Available and stocked

MC4 Panel Mount Connectors (1000V DC & 1500V DC)

The panels mount MC4 is commonly used in combiner box manufacture or as the connector of choice for inverter manufactures. The connector comes complete with the lock-ring and is available for PV cable sizes 4mm² – 10mm² for 1000V DC 1500V DC connections.

Product Code	Description
*32.0346P0001-UR	PV-ADB-EVO 2A/6, MC4 Female, Crimp (4 - 6mm ²) 1500V DC
*32.0347P0001-UR	PV-ADS-EVO 2A/6, MC4 Male, Crimp (4 - 6mm ²) 1500V DC
*32.0078P0001-UR	PV-ADBP4-S2 / 6-UR, MC4 Female, Crimp (4 - 6mm ²) 1000V DC
*32.0079P0001-UR	PV-ADSP4-S2 / 6-UR, MC4 Male, Crimp (4 - 6mm ²) 1000V DC

*Please contact us for volume pricing! *Available and stocked



MC4 Branch Connectors (1500V DC)



The MC4 Y-connectors make it possible to parallel wire PV modules with Stäubli output cables. Maximum current rating allowed through connectors is 30A. Rated for 1000V DC . Connectors have an IP68 dust / waterproof rating.

Product Code	Description
*32.0018	PV-AZB4, MC4 In-Line branch connector: 1 male – 2 female
*32.0019	PV-AZS4, MC4 In-Line branch connector: 2 male – 1 female
32.0197	PV-AZS4-EVO 2-UR, Branch connector: 1 female – 2 male
32.0196	PV-AZB4-EVO 2-UR, Branch connector: 2 male – 1 female



MC4 Safety Lock Clip PV-SSH4 MC4 (MC4 Accessories)

Safety lock – Locks the male and female MC4 connectors together to ensure they are not disconnected under load. The lock will require a special tool to unlock.



Product Code	Description
32.5280	PV-SSH4, MC4 Safety Clip (Requires PV-MS... Tool to unlock)

Sealing Caps MC4 (MC4 Accessories)

Sealing Caps – Seals the male and female MC4 when not in use to protect against dust, water and insects.



Product Code	Description
32.0716	PV-BVK4, Suitable for MC4 Socket Side
32.0717	PV-SVK4, Suitable for MC4 Plug Side
*Material TPE. *Degree of protection: IP67	

MC4 Overview

MC4 PV cable connectors require special tools to properly attach the connectors. Single-purpose tools from Stäubli work with only that type of connector and are often the best option for installers who work only with modules that have that same connector type.

MC4 Crimping Tools - Crimping Pliers for Private us PV-CZM-BS



Product Code	Description	Qty.
*32.6025	PV-CZM-BS, MC4 Crimping tool including die for 2.5mm², 4mm² and 6mm² wire sizes	1
*Available and stocked Suitable for the assembly of products approved by TUV in small amounts.		

Econo Solar Crimp Set



Product Code	Description
*SOLARCRIMP	MC4 Economy Crimping Set (Crimps 4mm and 6mm cable)
*Available and stocked. The set includes strippers, plastic spanner and zip tool bag and crimper.	

KBE Solar DB EN 50618 H1Z2Z2-K (1500V DC)



KBE offers a range of solar cables, including PV cables for direct burial, with voltage ratings up to 1500 V, compliant with H1Z2Z2-K under EN 50618. Certified to EN 50618 (TÜV) and UL Style 4703, these cables are suitable for PV power plants, rooftop systems, and panel manufacturing. Advanced production ensures cost efficiency.

TÜV certified and made in Germany, KBE solar cables feature cross-linked insulation for enhanced durability and reliability. Available in various diameters, they fit most connectors and junction boxes, with optional termite and rodent resistance.

Conductor E-Cu tinned acc. IEC 60228 Class 5	Jacket material - Cross-linked Special Polyolefin 36 Shore D - Halogen free - Weather- and UV-resistant - Ozone resistant	Temperature range -40°C to +90°C - Max. conductor temperature: 120°C Voltage rating - U / U = 600 / 1000V AC - Max. 1800V AC (conductor-conductor, non earthed system, circuit not under load)	Flame resistance - ACc. to DIN EN 60332-1-2 Colours - Black, red, blue Guidelines & certificates - EN 50618, R60107612 - RoHS 2011/65/EU
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Ordering Information

Product Code	Cable Type	Colour	Cross Section	Conductor Design (N x Max.)	Insulation Thickness	A @ 60°C	Outer Ø
730250015040QUSW	Single core	Black	2,5mm²	50 x 0,26 Ømm	0,5mm	41A	5mm
730250015040QURT	Single core	Red	2,5mm²	50 x 0,26 Ømm	0,5mm	41A	5mm
730400015060QUSW	Single core	Black	4mm²	56 x 0,29 Ømm	0,5mm	55A	5,4mm
730400015060QURT	Single core	Red	4mm²	56 x 0,29 Ømm	0,5mm	55A	5,4mm
730600015060QUSW	Single core	Black	6mm²	80 x 0,31 Ømm	0,5mm	70A	6mm
730600015060QURT	Single core	Red	6mm²	80 x 0,31 Ømm	0,5mm	70A	6mm
731000015060QUSW	Single core	Black	10mm²	80 x 0,41 Ømm	0,5mm	98A	7,1mm
731000015060QURT	Single core	Red	10mm²	80 x 0,41 Ømm	0,5mm	98A	7,1mm
731600015040QUSW	Single core	Black	16mm²	120 x 0,41 Ømm	0,5mm	132A	8,1mm
731600015040QURT	Single core	Red	16mm²	120 x 0,41 Ømm	0,5mm	132A	8,1mm
732500015040QUSW	Single core	Black	25mm²	196 x 0,41 Ømm	0,7mm	176A	10,5mm
732500015040QURT	Single core	Red	25mm²	196 x 0,41 Ømm	0,7mm	176A	10,5mm

1000m drums available in 4 and 6mm

Bussmann PV Fuses



NEW
1500V DC



1500V Fuses (DC)

Eaton's Bussmann™ series of 14 x 65mm (10 x 85mm with 10mm caps) package PV fuses are specifically designed for protecting and isolating photovoltaic strings. These fuse links are capable of interrupting low over-currents associated with faulted PV systems (reverse current, multi-array faults).

Cylindrical with 10mm fixings

Product Code	Rated Amps	Rated Voltage	Interrupting Rated
PV-2.25A10F85	2.25A	1500V DC	10kA
PV-4A10F85	4.0A	1500V DC	10kA
PV-12A10F85L	12A	1500V DC	30 kAIC
PV-15A10F85L	15A	1500V DC	10kA
PV-20A10F85L	20A	1500V DC	10kA
PV-25A10F85	25A	1300V DC	10kA
PV-32A10F85	32A	1300V DC	10kA

Holder for 1500V Fuses

Product Code	Number Of Poles	Rated Voltage	Rated Current (UI)	Rated Isolation Voltage Ui	Rated Surge Volt. \ Uimp	Rated Breaking Capacity ICC
CHPV15L85	1	1000V AC / 1500V DC	32A (IEC) / 30A	1500V	6	30kA
*No indication (call to enquire)						

10 x 38 PV Fuses (1000V DC)

A range of UL 2579 fast-acting 600V DC Midget fuses specifically designed to protect solar power systems in extreme ambient temperature, high cycling and low-level fault current conditions (reverse current, multi-array fault).

Product Code	Rated Current	Rated Voltage	Breaking Capacity	Dimensions	Class
PV-2A10F	2A	1000V DC	30kA	10 x 38mm	gPV
PV-6A10F	6A	1000V DC	30kA	10 x 38mm	gPV
PV-10A10F	10A	1000V DC	30kA	10 x 38mm	gPV
PV-12A10F	12A	1000V DC	30kA	10 x 38mm	gPV
PV-15A10F	15A	1000V DC	30kA	10 x 38mm	gPV
PV-20A10F	20A	1000V DC	30kA	10 x 38mm	gPV
PV-25A10F	25A	1000V DC	30kA	10 x 38mm	gPV

30 Amp available on special request only.

Holders for 10 x 38 Fuse (1000V DC)

Product Code	Rated Current	Rated Voltage	No. Poles	Fuse Blown Indication
*CHPV1IU	30A	1000V DC	1	With indication
*CHPV1U	30A	1000V DC	1	Without indication
JV-L	Multi-pole connector Kit (10 x 38). For Use with Fuse Holders CHPV1U and CHPVIU			

*Stocking items



1000V DC



Power Supply (1000V DC and 1500V DC) Converter



1000V DC

High voltage DC / DC power supply unit with wide input range, designed to supply monitoring devices of photovoltaic power plants directly from the generator strings. Low self-consumption / Safe separation of primary – secondary circuits / secondary circuits SELV type / LED operation indication / DIN rail mount.

1500V DC

High voltage DC / DC power supply unit with wide input range, designed to supply monitoring devices of photovoltaic power plants directly from the generator strings. Low self-consumption / Safe separation of primary – secondary circuits, secondary circuits SELV type. LED operation indication / DIN rail mount.



Technical Parameters

	Product Code	SS-10-240.DIN	SS-10-240.DIN.1K5
Input Data	Input Voltage	300V DC - 1000V DC	300V DC - 1500V DC
	Input Current	DC 40mA max.	DC 40mA max.
	Reverse Polarity Protection	Yes	Yes
	Input Fuse	Yes (internal)	Yes (internal)
	Input Voltage Start Ramp	Any Slope	Any Slope
Output Data	Output Voltage	24V DC (+ / -7%) including line and load regulation	24V DC (+ / -7%) including line and load regulation
	Output Current	400mA max.	400mA max.
	Output Power	10W	10W
	Power Derating	-2% / °C from 50°C - 70°C	-2% / °C 50°C to 70°C
	Short-Circuit Protection	Yes (auto resume)	Yes (auto resume)
	Max. Residual Ripple	<200mV	<150mV

SS-10-240/DIN_1k5_LC without EMC protection Available upon request

ST0HS Series SMU String Monitoring Cards



Product Code	Technology	Input	Maximum current	Cable section
ST0N0825NC	Shunts	8	25 Amps	16
ST0N1225NC	Shunts	12	25 Amps	16
ST0N1625NC	Shunts	16	25 Amps	16
ST0N2025NC	Shunts	20	25 Amps	16
ST0N2415NC	Shunts	24	15 Amps	6
ST0N3215NC	Shunts	32	15 Amps	6
ST2N0840NC	Shunts	8	40 Amps	16
ST2N1240NC	Shunts	12	40 Amps	16
ST2N1635NC	Shunts	16	35 Amps	16
ST2N2425NC	Shunts	24	25 Amps	16
ST0HS0825NC	Hall Effect	8	25 Amps	6
ST0HS1225NC	Hall Effect	12	25 Amps	6
ST0HS1625NC	Hall Effect	16	25 Amps	6
ST0HS2025NC	Hall Effect	20	25 Amps	6
ST0HS2425NC	Hall Effect	24	25 Amps	6
ST0HS0845NC	Hall Effect	8	45 Amps	10
ST0HS1245NC	Hall Effect	12	45 Amps	10
ST0HS1645NC	Hall Effect	16	45 Amps	10
ST0HS2045NC	Hall Effect	20	45 Amps	10
ST0HS2445NC	Hall Effect	24	45 Amps	10
ST0HS0860NC	Hall Effect	8	60 Amps	10
ST0HS1260NC	Hall Effect	12	60 Amps	10
ST0HS1660NC	Hall Effect	16	60 Amps	10
ST0HS2060NC	Hall Effect	20	60 Amps	10
ST0HS2460NC	Hall Effect	24	60 Amps	10

Miniature and Molded Case Circuit Breakers | 2 to 4-Pole (DC)



Benefits

- Rated insulation voltage = 1000V DC / 1500V DC
- Rated impulse withstand voltage = 4Kv
- Device width = 18mm (per pole) height = 83mm (89mm width DIN dip)
- Terminal capacity = 1 - 35mm²

K - Characteristic, 2-pole, 600V DC (6kA)



Product Code	Poles	Current Rating	Voltage Rating	Type	Width
BB1-63-2P-16A	2	16 A	600V DC	MCB (Miniature Circuit Breaker)	1MU
BB1-63-2P-20A	2	20 A	600V DC	MCB (Miniature Circuit Breaker)	1MU
BB1-63-2P-25A	2	25 A	600V DC	MCB (Miniature Circuit Breaker)	1MU
BB1-63-2P-32A	2	32 A	600V DC	MCB (Miniature Circuit Breaker)	1MU
BB1-63-2P-40A	2	40 A	600V DC	MCB (Miniature Circuit Breaker)	1MU
BB1-63-2P-63A	2	63 A	600V DC	MCB (Miniature Circuit Breaker)	1MU

K - Characteristic, 3-pole, 1500V DC (6kA)

BB2-40** | 3-Pole



Product Code	Poles	Current Rating	Voltage Rating	Type	Width
BB2-40-3P-10A-1500	3	10 A	1500V DC	MCB (Miniature Circuit Breaker)	2MU
BB2-40-3P-13A-1500	3	13 A	1500V DC	MCB (Miniature Circuit Breaker)	2MU
BB2-40-3P-16A-1500	3	16 A	1500V DC	MCB (Miniature Circuit Breaker)	2MU
BB2-40-3P-20A-1500	3	20 A	1500V DC	MCB (Miniature Circuit Breaker)	2MU
BB2-40-3P-25A-1500	3	25 A	1500V DC	MCB (Miniature Circuit Breaker)	2MU
BB2-40-3P-32A-1500	3	32 A	1500V DC	MCB (Miniature Circuit Breaker)	2MU
BB2-40-3P-40A-1500	3	40 A	1500V DC	MCB (Miniature Circuit Breaker)	2MU

K - Characteristic, 4-pole, 1000V DC (6kA)

BB1-63** | 4-Pole



Product Code	Poles	Current Rating	Voltage Rating	Type	Width
BB1-63-4P-16A	4	16 A	1200V DC	MCB (Miniature Circuit Breaker)	3MU
BB1-63-4P-20A	4	20 A	1200V DC	MCB (Miniature Circuit Breaker)	3MU
BB1-63-4P-25A	4	25 A	1200V DC	MCB (Miniature Circuit Breaker)	3MU
BB1-63-4P-32A	4	32 A	1200V DC	MCB (Miniature Circuit Breaker)	3MU
BB1-63-4P-40A	4	40 A	1200V DC	MCB (Miniature Circuit Breaker)	3MU
BB1-63-4P-63A	4	63 A	1200V DC	MCB (Miniature Circuit Breaker)	3MU

Moulded Case DC Circuit Breaker



BD125** | 3-Pole

Product Code	Poles	Current Rating	Voltage Rating	Type	Width
BD125-4P-80A	4	80 A	1000V DC	MCCB (Moulded Case Circuit Breaker)	4MU
BD125-4P-100A	4	100 A	1000V DC	MCCB (Moulded Case Circuit Breaker)	4MU
BD125-4P-160A	4	160 A	1000V DC	MCCB (Moulded Case Circuit Breaker)	4MU
BD125-4P-200A	4	200 A	1000V DC	MCCB (Moulded Case Circuit Breaker)	4MU

AC Surge Protectors



(Compact)

3-Phase+N Type 1 + 2 Surge Protectors | DIN Rail

Product Code	571134	821710244	64136
Model	DS134RS-280/G	DAC1-13S-31-275	DACN1-25CVGS-31-275/SC
Network	230 / 400V	230 / 400V	230 / 400V
SPD Configuration	3-phase + N	3-phase + N	3-phase + N
Nominal line Voltage	230V AC	230V AC	230V AC
Max. AC Operating Voltage	275V	280V	275V
Nominal Discharge Current	20kA	20kA	25kA
Max. Discharge Current	50kA	50kA	100kA
Connection	Screw terminal 25mm² max.	Screw terminal 25mm² max.	Screw terminal 25mm² max.
Dimensions (width)	72mm	72mm	72mm
Remote Signaling	Yes	Yes	Yes
Surge counter integrated	No	-	Yes



Single-Phase Type 1 + 2 Surge Protectors

Product Code	571132	821710342
Model	DS132RS-280/G	DAC1-13S-11-320
Network	230V	230V
SPD Configuration	Single phase	Single phase
Max. AC Operating Voltage	275V	320V
Nominal Discharge Current	20kA	20kA
Max. Discharge Current	50kA	50kA
Connection	L/N and N/PE	Screw terminal 25mm² max.
Mounting	Symmetrical rail 35mm (EN 60715)	DIN Rail
Dimensions (width)	36mm	72mm
Remote Signaling	Yes	Yes
Surge counter integrated	-	-



3-Phase+N Type 2 Surge Protectors (Pluggable)

Product Code	461132	821110244
Model	DS44S-280/G (Compact)	DAC50S-31-275
Network	230 / 400V	230 / 400V
SPD Configuration	3-phase + N	3-phase + N
Max. AC Operating Voltage	275V AC	275V AC
Nominal Discharge Current	20kA	20kA
Maximal Discharge Current	40kA	50kA
Connection	Screw terminal 10mm² max.	Screw terminal 25mm² max.
Mounting	DIN Rail	DIN Rail
Dimensions (width)	36mm	72mm
Remote Signaling	Yes	Yes
		Enquire DS44S-230/G SPD still available.



Single-Phase Type 2 Surge Protectors

Product Code	461131	821110242
Model	DS42S-280/G	DAC50S-11-275
Network	230 / 400V	230 / 400V
SPD Configuration	Single-phase	Single-phase
Max. AC Operating Voltage	280V	275V
Nominal Discharge Current	20kA	20kA
Maximal Discharge Current	40kA	50kA
Connection	Screw terminal 25mm² max.	Screw terminal 25mm² max.
Mounting	DIN Rail	DIN Rail
Dimensions (width)	18mm	36mm
Remote Signaling	Yes	Yes
		Enquire DS42S-230/G SPD still available.

DC Surge Protectors



Compact

Type 1+2 / 1500V DC Surge Protectors

Product Code	482523	65212103
Model	DS50PV-1500/12KT1	DPVN1-6CS-21Y-1500
Network	PV network 1250V DC	PV 1500V DC
SPD Configuration	1 + 2	1 + 2 + 3
Max. PV Operating Voltage	1500V DC	1500V DC
Nominal Discharge Current	15kA	20kA
Maximal Discharge Current	40kA	40kA
Connection	+/-/PE	+/-/PE
Mounting	Symmetrical rail 35mm (EN 60715)	Symmetrical rail 35mm (EN 60715)
Dimensions (width)	57mm	44.5mm
Remote Signaling	No (enquire)	Yes



Compact

Type 1+2 / 1000V DC Surge Protectors

Product Code	482383	65212102
Model	DS50PV-1000G/12KT1	DPVN1-6CS-21Y-1200
Network	PV 1000V DC	PV 1200V DC
SPD Configuration	1 + 2	1 + 2 + 3
Max. PV Operating Voltage	1200V DC	1200V DC
Nominal Discharge Current	15kA	20kA
Maximal Discharge Current	40kA	40kA
Connection	+/-/PE	+/-/PE
Mounting	Symmetrical rail 35mm (EN 60715)	Symmetrical rail 35mm (EN 60715)
Dimensions (width)	54mm	44.5mm
Remote Signaling	No (enquire)	Yes



Compact

Type 1+2 / 600V DC Surge Protectors

Product Code	482443	65112101
Model	DS50PVS-600G/12KT1	DPVN1-6CS-21Y-600
Network	PV 600V DC	PV 600V DC
SPD Configuration	1 + 2	1 + 2 + 3
Max. PV Operating Voltage	720V DC	600V DC
Nominal Discharge Current	15kA	20kA
Maximal Discharge Current	40kA	40kA
Connection	+/-/PE	+/-/PE
Mounting	Symmetrical rail 35mm (EN 60715)	Symmetrical rail 35mm (EN 60715)
Dimensions (width)	54mm	44.5mm
Remote Signaling	Yes	Yes



Compact

Type 2 / 1500V DC Surge Protectors

Product Code	480521	65111103
Model	DS50PV-1500/51	DPVN40C-21Y-1500
Network	PV 1250V DC	PV 1500V DC
SPD Configuration	2	2 + 3
Max. PV Operating Voltage	1500V DC	1500V DC
Nominal Discharge Current	15kA	20kA
Maximal Discharge Current	40kA	40kA
Connection	+/-/PE	+/-/PE
Mounting	Symmetrical rail 35mm (EN 60715)	Symmetrical rail 35mm (EN 60715)
Dimensions (width)	54mm	44.5mm
Remote Signaling	No (enquire)	Yes

DC Surge Protectors (continued)



Compact

Type 2 / 1000V DC

Product Code	480321	65112102
Model	DS50PV-1000/51	DPVN40CS-21Y-1200
Network	PV 1000V DC	PV 1200V DC
SPD Configuration	2	2
Max. PV Operating Voltage	1200V DC	1200V DC
Nominal Discharge Current	15kA	20kA
Maximal Discharge Current	40kA	40kA
Connection	+/-/PE	+/-/PE
Mounting	Symmetrical rail 35mm (EN 60715)	Symmetrical rail 35mm (EN 60715)
Dimensions (width)	54mm	44.5mm
Remote Signaling	No	Yes



Compact

Type 2 / 600V DC

Product Code	480401	65212101
Model	DS50PV-600	DPVN1-6CS-21Y-600
Network	PV 600V DC	PV 600V DC
SPD Configuration	2	2 + 3
Max. PV Operating Voltage	720V DC	600V DC
Nominal Discharge Current	15kA	20kA
Maximal Discharge Current	40kA	40kA
Connection	+/-/PE	+/-/PE
Mounting	Symmetrical rail 35mm (EN 60715)	Symmetrical rail 35mm (EN 60715)
Dimensions (width)	36mm	44.5mm
Remote Signaling	No.	Yes

LED Outdoor Lighting



Din Rail Single Phase Surge Protectors

Product Code	841211	355913
Model	MLPM1-230L-R	DLPM1-230L
AC Network	230V single-phase	230V single-phase
SPD Type	Type 2	Type 2
Nominal Discharge Current	5kA	5kA
Maximal Discharge Current	10kA	10kA
Connection	Screw terminal 2.5mm² max.	Screw terminal 2.5mm² max.
Mounting	On plate	DIN Rail
End Of Life Indicator	Red mechanical indicator	Red mechanical indicator
SPD Disconnection	AC line disconnect	AC line disconnect
Remote Signalling	No	No
Dimensions (width x height)	42 x 60mm	17.9 x 80mm

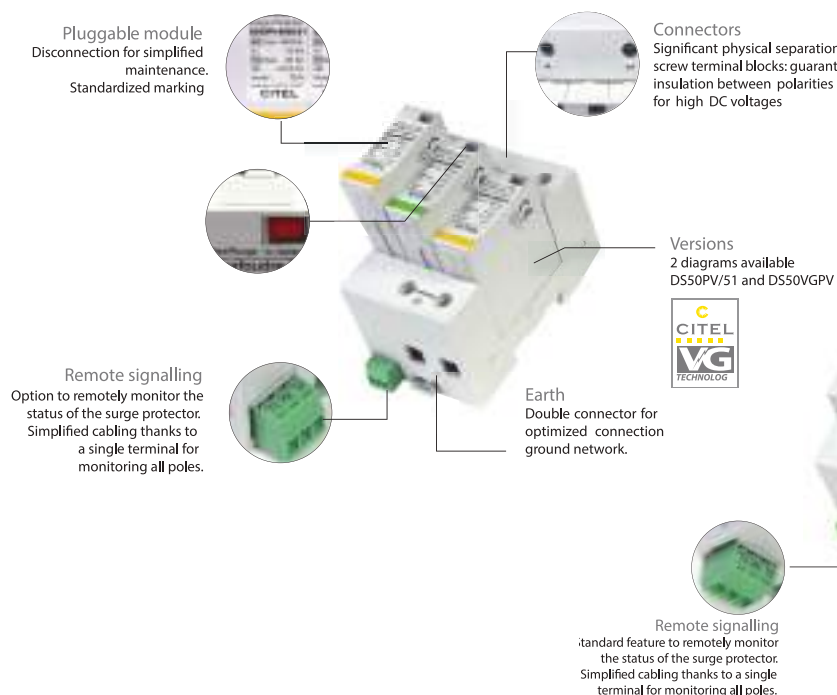


CITEL

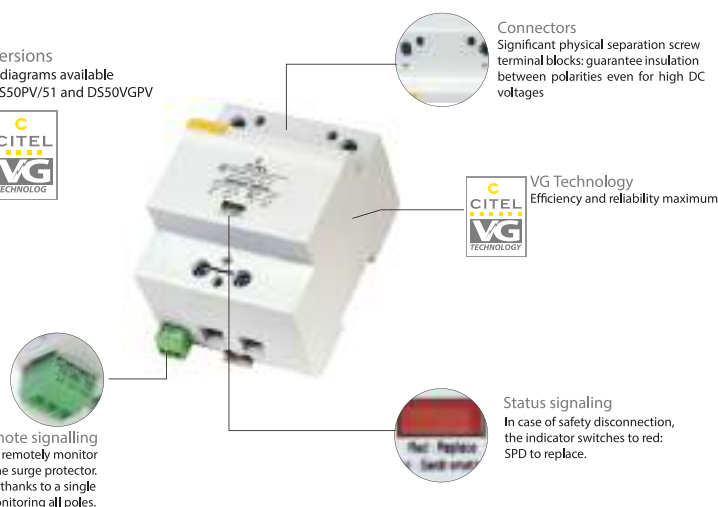
Surge Protectors for Photovoltaic Systems

Most photovoltaic module manufacturers guarantee their materials for 20 years or more. The ROI of photovoltaic generation facilities connected to the low voltage network is therefore calculated over this long period of time. But these systems are often highly exposed to lightning and power surges, which can greatly reduce the required operating time. Implementation of appropriate protection solutions is strongly recommended.

DS50PV / 51 AND DS50VGPV / 51 SERIES



DS60PV / 51 SERIES



Several points must be considered to analyse the risk of Lightning and Power Surges:

- Due to the exposed nature of the PV array, the threat of lightning is more common.
- The risk is multiple: direct effect (lightning strike on the panels) and indirect (surge on Cells, solar chargers / inverters), on other lines data).
- The operating loss must be taken into account, especially at sites of high power capacity.
- When the PV system is located on industrial sites, the risk of switching overvoltages must also be taken into account.
- The level of risk is directly related to the lightning density and exposure of local lines

Protection of PV installation

The photovoltaic grid-connected low voltage power lines may be subject to overvoltages on different networks:

- **AC network:** surge protectors are necessary, and in most cases, mandatory on the AC output of the PV inverter which is connected back to the AC power grid.
- **DC network:** surge protectors are required or mandatory on the input of the PV inverter or the input PV modules.
- **Low current network:** if the PV inverter is connected to low voltage signal lines (probes, sensors, monitoring) then SPD devices are recommended.

AC surge protectors for PV installation

Depending on the type of networks, the presence of lightning rod or primary surge protectors existing, CITEL also offers a complete range of solutions to protect the AC portion of the PV system.

Installations with lightning rods

A Type 1 surge protector, specifically dimensioned to handle direct lightning current is required at the service entrance of the installation (main switchboard). Arresters like the DAC1-13S provide a high energy surge capacity in a compact size and are easily serviced with pluggable modules.

Standard installation

In the absence of lightning rod, the implementation of a type 2 SPD is generally preferred, but, in some cases, it is compulsory depending on the level of lightning in the area ($N_g > 2.5$). The DAC50S type 2 arrester range offers a modular solution adapted to these applications. For medium and small size facilities with limited space available, the DS240 / DS440 provides a high surge capacity in a reduced footprint.

Input protection of PV inverter

Guide UTE C15-712-1 requires the implementation of an additional SPD on the AC input of the PV inverter, if it is more than 10 m from the surge protector origin. The DS215 / DS415 surge protectors provide this protection for these applications and can be installed either directly into the distribution panel or in a dedicated, standalone enclosure solution.

Surge protectors for data line & monitoring

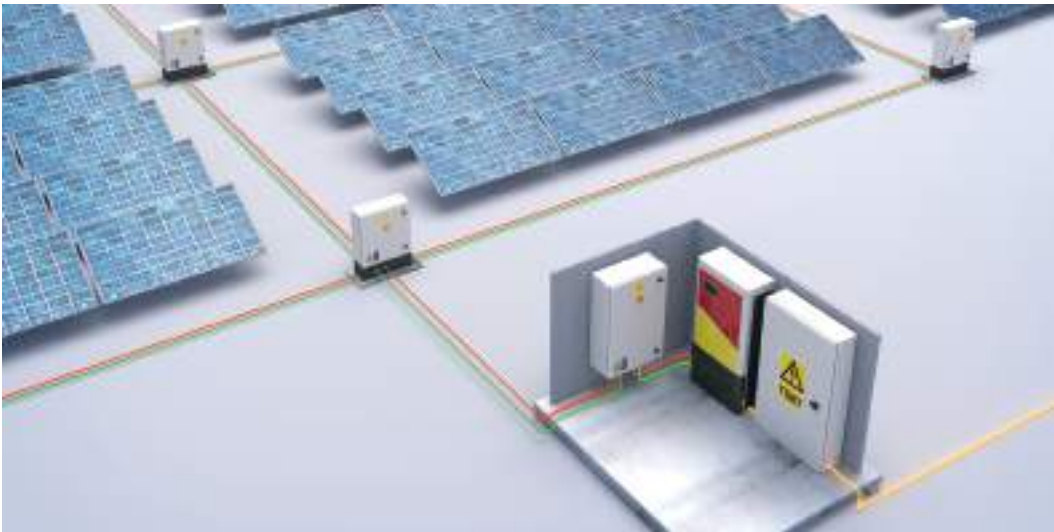
The PV system can be interconnected to various low-current networks including probes, sensors, and monitoring equipment. In these cases, the implementation of suitable surge protector is highly recommended: The DLA range performs this function and surge protector is available for any type of telecom or data line connections.



Power Plant

If lightning protection rod systems are equipped:

- TYPE 1 Surge Protectors Are Compulsory For AC And DC Side
- Lightning Current Withstand I_{IMP} (10 / 350 μ s) Is Minimum 5 kA



DS60VGPV-1500G/51

D60VGPV



Type 1 + 2 Monobloc

- Lightning Impulse Current I_{IMP} = 12.5kA
- Nominal Discharge Current I_n = 40kA

DC

Product Code	Model	Maximum Operating V DC	Protection Level CM / DM
		Ucpv	Up
3958	DS60VGPV-1000G/51	1000 - 1200V DC	4.7 / 5.4kV
3956	DS60VGPV-1500G/51	1250 - 1500V DC	4.7 / 5.4kV

Enquire about adding remote signalling.



DLA

DLA2

DLA & DLA2 Series

Type 1 + 2 Pluggable modules

- 1 Pair (DLA) or 2 pairs (DLA2) + shield protection – Pluggable modules - Screw connection
- Maximum Discharge Current I_{max} = 20kA

DATA

Model	Type of Line	Protection Level	SPD Configuration
DLA1-12D3	RS232, RS485	30V	1 Pair
DLA2-12D3	RS232, RS485	30V	2 Pair
DLA124D3	4 - 20mA	40V	1 Pair
DLA2-24D3	4 - 20mA	40V	2 Pair



Commercial

If Lightning Protection Rod Systems are equipped:

- TYPE 1 Surge Protectors Are Compulsory For AC And DC Side
- Lightning Current Withstand I_{imp} (10 / 350 μ s) Is Minimum 5kA



DS50PV / 12KT1



DS50VGPVS-1000G/12KT1



DAC1-13S-31-275

Type 1 + 2 Pluggable modules

- Lightning Impulse Current I_{imp} = 6.25kA
- Nominal Discharge Current I_n = 40kA

DC

Product Code	Model	Maximum Operating V DC	Protection Level CM / DM
		Ucpv	Up
482443	DS50PVS-600G/12KT1	600 - 1060V DC	2.5 / 2.5kV
480293	DS50PVS-880G/10KT1	600 - 1060V DC	2.9 / 3.6kV
482393	DS50PVS-1000G/12KT1	1000 - 1200V DC	2.6 / 4.6kV
482313	DS50VGPVS-1000G/12KT1	1000 - 1200V DC	2.6 / 4.6kV
482383	DS50PV-1000G/12KT1	1000 - 1200V DC	2.6 / 4.6kV
482573	DS50PVS-1500/12KT1	1250 - 1500V DC	3.4 / 5.3kV

'S' in product code refers to option remote signalling status (option)

DAC1 Series

Type 1 + 2 Pluggable modules

- Lightning Current I_{imp} = 12.5kA
- Maximum Discharge Current I_{max} = 50kA

AC

Product Code	Model	Network	Protection Level CM / DM
		230V AC	Up
821710242	DAC1-13S-11-275	1P+N	1.25 / 1.5kV
821710244	DAC1-13S-31-275	3P+N	1.25 / 1.5kV

'S' in product code refers to option remote signalling status (option)



Residential

Without Lightning Rod Systems:

- TYPE 2 Surge Protectors are necessary for AC And DC Side
- Maximum Discharge Current I_{max} is standardised at 40kA



DS50PV



DS50PVS- 800G/51
DAC50S-11-275



DAC50S-31-275

DS42S-230/G



DS44S-230/G

DC	Type 2 Pluggable modules			
	• Nominal Discharge Current $I_n = 15\text{kA}$ • Maximum Discharge Current $I_{max} = 40\text{kA}$			
	Product Code	Model	Maximum Operating V DC	Protection Level CM / DM
			Ucpv	Up
	480171	DS50PVS-500/51	600V DC	2.2kV
	480471	DS50PVS-600/51	720V DC	2.8kV
	480291	DS50PVS- 800G/51	960V DC	2.0 / 3.6kV
	480391	DS50PVS-1000G/51	1200V DC	2.6 / 4.6kV
	480571	DS50PVS-1500/51	1500V DC	3.4 / 5.3kV
	'S' in product code refers to option remote signalling status (optional)			

DAC50 Series



AC	Type 2 Pluggable modules			
	• Nominal Discharge Current (15 surges) $I_n = 20\text{kA}$ • Maximum Discharge Current $I_{max} = 50\text{kA}$			
	Product Code	Model	Network	Protection Level CM / DM
			230V AC	Up
	821110242	DAC50S-11-275	1P+N	1.25 / 1.5kV
	821110244	DAC50S-31-275	3P+N	1.25 / 1.5kV
	'S' in product code refers to option remote signalling status (optional)			

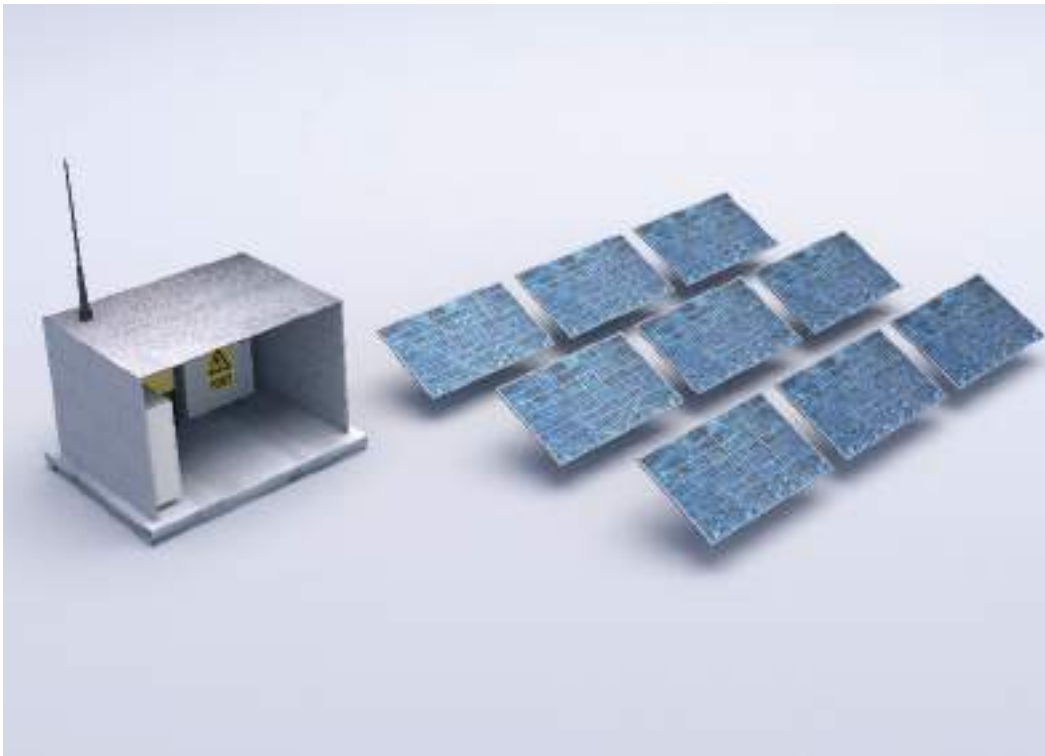
DS40 Series

AC	Type 2 Pluggable modules			
	• Nominal Discharge Current (15 surges) $I_n = 20\text{kA}$ • Maximum Discharge Current $I_{max} = 10\text{kA}$			
	Product Code	Model	Network	Protection Level CM / DM
			230V AC	Up
	461531	DS42S-230/G	1P+N	1.25 / 1.5kV
	461532	DS44S-230/G	3P+N	1.25 / 1.5kV
	'S' in product code refers to option remote signalling status (optional)			

Off-Grid

Without Lightning Rod Systems:

- Type 2 Surge Protectors Are Necessary For AC And DC Side
- Maximum Discharge Current I_{max} is standardised at 40kA



DS-2x0DC series

Type 2 low voltage protection

- Compact Pluggable module
- I_{max} : 20 to 40 kA

DC

Product Code	Model	Operating Range V DC	Protection Level CM / DM
		Ucpv	Up
390111	DS220S-12DC	12 – 24	250V
390511	DS220S-24DC	24 – 38	250V
390411	DS230S-48DC	48 – 65	300V
310801	DS240-130DC	130 – 180	620V
310811	DS240S-130DC	130 – 180	620V
310211	DS240S-220DC	220 – 275	900V
310511	DS240S-280DC	350 – 460	1200 V

'S' in product code refers to option remote signalling status (option)

DSx40 Compact Series

Type 2 with 2 lines per module to reduce width

- Nominal Discharge Current (15 surges) I_n = 20kA
- Maximum Discharge Current I_{max} = 40kA

AC

Product Code	Model	Network	Protection Level CM / DM
		230V AC	Up
311731	DS240S-230/G	1P+N	1.25 / 1.5kV
311732	DS440S-230/G	3P+N	1.25 / 1.5kV

'S' in product code refers to option remote signalling status (option)



DS230S-48DC



DS240S-230/G

DS440S-230/G



ZFV On-Off Switch^{*(1)}

Switch-disconnectors for DC applications are available in a wide range of currents and voltages up to 1500V DC 21B. 2P, 3P+3P, 4P and 4P+4P versions are available, acting as a main switch. They are specially indicated for PV installations, where a safe disconnection is required. Standard panel handle is padlock-able in "OFF" position, for maintenance purposes.

Telergon uses this range of switches in all standardised enclosed applications for PV where a safe disconnection is required. Standard panel handle is padlock-able in "OFF" position, for maintenance purposes. Telergon uses this range of switches in all standardised enclosed applications for PV.

F1 (2P)



F1 (4P)



F1 (IP65 Enclosed)

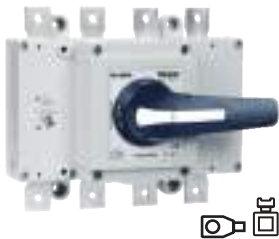


Product Code (Open Switch)	Product Code (Plastic Enclosed IP65)	Voltage	Amps	Poles	Size	Conn.
F1-00322P1DB	F1-00322P3EP	1000V DC	32A	2	00	
F1-00324P1DB	F1-00324P3EP	1000V DC	32A	4	00	

^{*(1)} Switch + bridging links + padlock-able handle.

DC Switch-disconnectors For Photovoltaic Applications

Handle and Switch disconnection



Switch disconnection S5000 DC 4P connection



Direct and panel mount handle (Extension Shaft)



For photovoltaic applications in direct current. Base mounting by screws. | Direct or external handle, blue colour. | Ue MAX. 1000V DC the MAX. 3150A DC 21B.

S5000 DC Switch-disconnector for DC Current 4P (1000V DC)

S5 DC Switches S5000 (40 - 3150 A) (O - I)				Handle Options (There are three options to choose from)					
On-Off Switch 4Pole ^(P1)		Description		Direct Handle Blue	External Handle Blue with standard shaft included	External Handle Blue without standard shaft ⁽²⁾	Extended Shafts Options for External Handle		
	Product Code	Amps	Size	Voltage	Product Code	Product Code	Shaft Length	Product Code	Product Code Type 1 & 2 ⁽³⁾
	S5-01254PR0	100A	1	1000V DC	DS-SI11	DS-SA11	227mm	DS-SA14	DS-EP14
	S5-02004PR0	160A	1	1000V DC					376mm
	S5-03154PR0	250A	1	1000V DC					DS-EP15
	S5-04004PC0	400A	1	1000V DC					536mm
S5-06304PR0	500A	2	1000V DC	DS-LI21	DS-LA21	195mm	DS-LA24	DS-EP23	345mm
S5-08004PC0	630A	2	1000V DC					DS-EP24	345mm
S5-12504PC0	850A	3	1000V DC	DS-LI31	DS-LA31	186mm	DS-LA33	DS-EP23	345mm
								DS-EP24	345mm
S5-18004PS0	1250A	4	1000V DC	DS-LI41	DS-LA41	239mm	DS-LA43	DS-EP44	485mm
								DS-EP45	635mm

^(P1)4-poles simultaneous breaking | ⁽²⁾External Handle has the options of a couple of types of shafts. | ⁽³⁾The difference between type 1 option and type 2 is the lengths of the shafts.

S7 SERIES: High Performance Switch Disconnectors - 1500V DC



Introducing the S7, a state-of-the-art high-performance switch-disconnector designed to handle up to 500 A at 1500 V DC (750 V DC per pole). Developed through extensive research by our R&D team, the S7 delivers optimised performance and increased safety. It features our patented magnetic blow-out technology and powerful movable magnets, which create a rotating magnetic field to enhance arc extinction.

- Maximised electrical performance
- High safety level
- Suitable for extreme environments
- Versatile operation & Compact design
- Longer life
- Easy to install

S7 Frontal Operation Switch Only



Product Code	Amperage	Connection	High Voltage
S7-01602PS0	160 Amp	30mm	1500V DC
S7-02002PS0	200 Amp	30mm	1500V DC
S7-02502PS0	250 Amp	30mm	1500V DC
S7-03152PS0	315 Amp	30mm	1500V DC
S7-04002PS0	400 Amp	30mm	1500V DC
S7-05002PS0	500 Amp	35mm	1500V DC

*Standard IEC60947-3 (DC -21B)

S7 Switch Disconnectors Accessories



Handle	
Product Code	Description
DS-SI11	Direct handle
DS-SA11	External handle (227mm*1 shaft included)
Auxiliary Contacts	
Product Code	Description
DM-AU11	Auxiliary contacts 1NO + 1NC
DM-AU12	Auxiliary contacts 1NO + 1NC



Cable Solutions

Our cable and cable management range incorporates a full scope of industrial control cables, bus cables, and high flex cables. We also supply everything needed to manage cables including trunking and conduit systems. Brands we stock include Lapp Kabel, Reiku and Pflitsch.



Flexible Control Cables, Numbered, Grey Insulation (No Screen)

FLEX Kabel



Marking YSLYJZ05004B - FLEKKABEL YSLY-JZ 4G0,50 300/500 V

Application:
Flexible use with medium mechanical stresses and free movements, in dry, moist and wet environments, but not suitable for open air. These cables are suitable for measuring and control, especially in such areas as tool machine industries, conveyor belts, production lines, in machinery production, in air conditioning and in steel production. The cores have been numbered in such a way that the numbers are easily readable, even if the cable has been unsheathed a few cm. The core numbers have been underlined to avoid confusion. For version JZ the earth wire is located in the outer layer.



Construction

Inner Conductor	Bare copper, stranded
Insulation	Polyvinylchloride (PVC) TI2 (YI2)
Identification JZ	1 Core G/Y + Black cores with numbers
Identification OZ	All black cores with numbers
Cabling	Conductors cabled in concentric layers
Jacket	Polyvinylchloride (PVC) TM2 (YM2)
Colour	Grey RAL 7001

Technical Data

Temperature Range Fixed Installation	-15°C to +70°C
Temperature Range Mobile Installation	-5°C to +70°C
Min. Bending Radius Fixed Installation	10x Diameter
Min. Bending Radius Mobile Installation	20x Diameter

Cross Section 0.50mm²

Product Code	Cores		Diameter	Weight	Drum Length
YSLYOZ05002B193	2	only	4.7mm	32.7kg / km	1000m
YSLYJZ05003B193	3G	(2+earth)	5.0mm	39.2kg / km	1000m
YSLYJZ05004B193	4G	(3+earth)	5.40mm	47.4kg / km	1000m
YSLYJZ05005B193	5G	(4+earth)	6.00mm	56.5kg / km	1000m
YSLYJZ05007B193	7G	(6+earth)	6.50mm	72.4kg / km	1000m
YSLYJZ05012B193	12G	(11+earth)	8.70mm	120.6kg / km	500m
YSLYJZ05018B193	18G	(17+earth)	10.30mm	171.3kg / km	500m
YSLYJZ10025B193	25G	(24+earth)	12.20mm	233.54kg / km	500m

Cross Section 0.75mm²

Product Code	Cores		Diameter	Weight	Drum Length
YSLYOZ07502B193	2	only	5.30mm	43.4kg / km	1000m
YSLYJZ07503B193	3G	(2+earth)	5.70mm	52.6kg / km	1000m
YSLYJZ07504B193	4G	(3+earth)	6.20mm	63.9kg / km	1000m
YSLYJZ07505B193	5G	(4+earth)	6.80mm	76.6kg / km	1000m
YSLYJZ07507B193	7G	(6+earth)	7.50mm	98.7kg / km	1000m
YSLYJZ07512B193	12G	(11+earth)	10.20mm	168.5kg / km	500m
YSLYJZ07518B193	18G	(17+earth)	12.10mm	240.0kg / km	500m
YSLYJZ07525B193	25G	(24+earth)	14.30mm	327.7kg / km	500m

Cross Section 1.00mm²

Product Code	Cores		Diameter	Weight	Drum Length
YSLYOZ10002B193	2	only	5.60mm	49.8kg / km	1000m
YSLYOZ10003B193	3	only	6.00mm	61.0kg / km	1000m
YSLYJZ10003B193	3G	(2+earth)	6.00mm	61.0kg / km	1000m
YSLYJZ10004B193	4G	(3+earth)	6.60mm	74.8kg / km	1000m
YSLYJZ10005B193	5G	(4+earth)	7.30mm	90.2kg / km	1000m
YSLYJZ10007B193	7G	(6+earth)	8.00mm	117.5kg / km	1000m
YSLYJZ10012B193	12G	(11+earth)	10.80mm	198.4kg / km	500m
YSLYJZ10018B193	18G	(17+earth)	12.90mm	285.4kg / km	500m
YSLYJZ10025B193	25G	(24+earth)	15.40mm	392.2kg / km	500m

Cross Section 1.50mm²

Product Code	Cores		Diameter	Weight	Drum Length
YSLYOZ15002B193	2x	only	6.40mm	68.5kg / km	1000m
YSLYJZ15003B193	3G	(2+earth)	6.90mm	84.9kg / km	1000m
YSLYJZ15004B193	4G	(3+earth)	7.50mm	104.8kg / km	1000m
YSLYJZ15005B193	5G	(4+earth)	8.30mm	126.6kg / km	1000m
YSLYJZ15007B193	7G	(6+earth)	9.20mm	165.8kg / km	1000m
YSLYJZ15012B193	12G	(11+earth)	12.30mm	278.2kg / km	500m
YSLYJZ15018B193	18G	(17+earth)	14.70mm	402.2kg / km	500m
YSLYJZ15025B193	25G	(24+earth)	17.50mm	553.8kg / km	500m
YSLYJZ15034B193	34G	(33+earth)	20.30mm	747.2kg / km	500m
YSLYJZ15040B193	40G	(39+earth)	21.20mm	863.5kg / km	500m

Cross Section 2.50mm²

Product Code	Cores		Diameter	Weight	Drum Length
YSLYJZ25003B193	3G	(2+earth)	8.40mm	130.7kg / km	500m
YSLYJZ25004B193	4G	(3+earth)	9.20mm	162.1kg / km	500m
YSLYJZ25005B193	5G	(4+earth)	10.20mm	196.6kg / km	500m
YSLYJZ25007B193	7G	(6+earth)	11.20mm	258.9kg / km	500m
YSLYJZ25012B193	12G	(11+earth)	15.10mm	434.4kg / km	500m
YSLYJZ25018B193	18G	(17+earth)	18.00mm	630.2kg / km	500m
YSLYJZ25025B193	25G	(24+earth)	21.50mm	868.9kg / km	500m

Cross Section 4.00mm²

Product Code	Cores		Diameter	Weight	Drum Length
YSLYJZ40003B193	3G	(2+earth)	10.00mm	190.6kg / km	500m
YSLYJZ40004B193	4G	(3+earth)	11.00mm	237.6kg / km	500m
YSLYJZ40005B193	5G	(4+earth)	12.30mm	289.2kg / km	500m
YSLYJZ40007B193	7G	(6+earth)	13.50mm	382.3kg / km	500m

Cross Section 6.00mm²

Product Code	Cores		Diameter	Weight	Drum Length
YSLYJZ60004B193	4G	(3+earth)	13.10mm	345.8kg / km	500m
YSLYJZ60005B193	5G	(4+earth)	14.60mm	421.1kg / km	500m
YSLYJZ60007B193	7G	(6+earth)	16.10mm	556.2kg / km	500m

Liv-y Twisted Pair with Overall Braided Screen

Product Code	Cores		Diameter	Weight	Drum Length
H020802204B193	4 x 2	x0.22 (Grey)	7.6mm	39kg / km	500m

Flexible Control Cables, Numbered – Cu-Shielded, Grey Insulation



Application:
Shielded cable for measuring and control, suitable for machinery, conveyor belts, production lines, air conditioning installations, and steel plants. Designed for flexible use under medium mechanical stress in dry, moist, wet, and outdoor (fixed) environments. Not suitable for underground or underwater use. Numbered cores remain legible when unsheathed, with underlined numbering to avoid confusion. The earth wire is located in the outer layer, and the UV-resistant black outer sheath is made of special PVC.

Flexible control cables, numbered - Cu-shielded, grey insulation



Construction

Inner Conductor	Bare Copper, Stranded
Insulation	Polyvinylchloride (PVC) TI2 (YI2)
Identification JZ	1 Core G/Y + Black cores with numbers
Identification OZ	All black cores with numbers
Cabling	Conductors cabled in concentric layers
Central filler	(where applicable) flexible synthetic rope
Taping	Polyester foil
Shield	Tinned Copper, Braid
Jacket	Polyvinylchloride (PVC) TM2 (YM2)
Colour	Grey RAL 7001

Technical Data

Temperature Range Fixed Installation	-15°C to +70°C
Temperature Range Mobile Installation	-5°C to +70°C
Min. Bending Radius Fixed Installation	10x Diameter
Min. Bending Radius Mobile Installation	20x Diameter

Cross Section 0.50mm²

Product Code	Cores	Diameter	Weight	Drum Length
YSLCYOZ05002B193	2x only	5.1mm	35.6kg / km	1000m
YSLCYJZ05003B193	3G (2+earth)	5.4mm	43.6kg / km	1000m
YSLCYJZ05004B193	4G (3+earth)	5.9mm	53.6kg / km	1000m
YSLCYJZ05005B193	5G (4+earth)	6.4mm	64.2kg / km	1000m
YSLCYJZ05007B193	7G (6+earth)	7.0mm	81.6kg / km	1000m
YSLCYJZ05012B193	12G (11+earth)	9.2mm	131.0kg / km	500m
YSLCYJZ05018B193	18G (17+earth)	10.8mm	184.9kg / km	500m
YSLCYJZ05025B193	25G (24+earth)	12.8mm	251.4kg / km	500m

Cross Section 0.75mm²

Product Code	Cores	Diameter	Weight	Drum Length
YSLCYOZ07502B193	2x only	5.7mm	44.7kg / km	1000m
YSLCYJZ07503B193	3G (2+earth)	6.0mm	55.6kg / km	1000m
YSLCYJZ07504B193	4G (3+earth)	6.6mm	68.6kg / km	1000m
YSLCYJZ07505B193	5G (4+earth)	7.2mm	82.5kg / km	1000m
YSLCYJZ07507B193	7G (6+earth)	7.9mm	105.9kg / km	1000m
YSLCYJZ07512B193	12G (11+earth)	10.4mm	172.9kg / km	500m
YSLCYJZ07518B193	18G (17+earth)	12.3mm	247.2kg / km	500m
YSLCYJZ07525B193	25G (24+earth)	14.5mm	335.0kg / km	500m

Cross Section 1.00mm²

Product Code	Cores		Diameter	Weight	Drum Length
YSLCYOZ10002B193	2x	only	6.1mm	51.7kg / km	1000m
YSLCYJZ10003B193	3G	(2+earth)	6.6mm	66.4kg / km	1000m
YSLCYJZ10004B193	4G	(3+earth)	7.1mm	82.3kg / km	1000m
YSLCYJZ10005B193	5G	(4+earth)	7.8mm	99.2kg / km	1000m
YSLCYJZ10007B193	7G	(6+earth)	8.6mm	127.9kg / km	1000m
YSLCYJZ10012B193	12G	(11+earth)	11.4mm	210.5kg / km	500m
YSLCYJZ10018B193	18G	(17+earth)	13.4mm	300.2kg / km	500m
YSLCYJZ10025B193	25G	(24+earth)	15.9mm	408.5kg / km	500m

Cross Section 1.50mm²

Product Code	Cores		Diameter	Weight	Drum Length
YSLCYOZ15002B193	2x	only	6.8mm	67.3kg / km	1000m
YSLCYJZ15003B193	3G	(2+earth)	7.3mm	87.9kg / km	1000m
YSLCYJZ15004B193	4G	(3+earth)	8.0mm	109.8kg / km	1000m
YSLCYJZ15005B193	5G	(4+earth)	8.8mm	133.2kg / km	1000m
YSLCYJZ15007B193	7G	(6+earth)	9.6mm	174.3kg / km	1000m
YSLCYJZ15012B193	12G	(11+earth)	12.8mm	289.4kg / km	500m
YSLCYJZ15018B193	18G	(17+earth)	15.2mm	416.2kg / km	500m
YSLCYJZ15025B193	25G	(24+earth)	18.0mm	568.5kg / km	500m

Cross Section 2.50mm²

Product Code	Cores		Diameter	Weight	Drum Length
YSLCYOZ25002B193	2x	only	8.2mm	98.8kg / km	1000m
YSLCYJZ25003B193	3G	(2+earth)	8.8mm	130.8kg / km	1000m
YSLCYJZ25004B193	4G	(3+earth)	9.7mm	165.5kg / km	1000m
YSLCYJZ25005B193	5G	(4+earth)	10.7mm	200.8kg / km	1000m
YSLCYJZ25007B193	7G	(6+earth)	11.7mm	265.1kg / km	1000m
YSLCYJZ25012B193	12G	(11+earth)	15.7mm	444.9kg / km	500m
YSLCYJZ25018B193	18G	(17+earth)	18.7mm	648.4kg / km	500m

Cross Section 4.00mm²

Product Code	Cores		Diameter	Weight	Drum Length
YSLCYJZ40004B193	4G	(3+earth)	11.3mm	232.4kg / km	500m
YSLCYJZ40005B193	5G	(4+earth)	12.5mm	285.0kg / km	500m
YSLCYJZ40007B193	7G	(6+earth)	13.8mm	376.6kg / km	500m

Cross Section 6.00mm²

Product Code	Cores		Diameter	Weight	Drum Length
YSLCYJZ60004B193	4G	(3+earth)	13.0mm	321.3kg / km	500m
YSLCYJZ60005B193	5G	(4+earth)	14.4mm	395.5kg / km	500m
YSLCYJZ60007B193	7G	(6+earth)	15.9mm	526.6kg / km	500m

Profibus Cable (DP)

	Product Code	Cores Section	Diameter	Weight kg / km	Drum Length
	Z1376.1B193	1 x 2 x 0.64mm² Purple (Fixed installation)	8.0mm	74.0kg / km	500m

Power Control Cables **Ölflex®**
0.5mm | Classic 110 (Unscreened)



Product Code	Cores	Drum Length	Outer Diameter	Cores
1119752	2 x 0,5 (2 cores)	500m	4.8mm	Number Coded Cores
1119003	3G 0,5 (2+E)	500m	5.1mm	Number Coded Cores
1119753	3 x 0,5 (3 cores)	500m	5.1mm	Number Coded Cores
1119004	4G 0,5 (3+E)	500m	5.7mm	Number Coded Cores
1119754	4 x 0,5 (4 cores)	500m	5.7mm	Number Coded Cores
1119005	5G 0,5 (4+E)	500m	6.2mm	Number Coded Cores
1119007	7G 0,5 (6+E)	500m	6.7mm	Number Coded Cores
1119012	12G 0,5 (11+E)	500m	8,9mm	Number Coded Cores
1119018	18G 0,5 (17+E)	500m	10.5mm	Number Coded Cores
1119025	25G 0,5 (24+E)	500m	12.4mm	Number Coded Cores

0.75mm | Classic 110 (Unscreened)



Product Code	Cores	Drum Length	Outer Diameter	Cores
1119103	3G 0,75 (2+E)	500m	5.7mm	Number Coded Cores
1119803	3 x 0,75 (2+E) (3 cores)	500m	5.7mm	Number Coded Cores
1119104	4G 0,75 (3+E)	500m	6.2mm	Number Coded Cores
1119804	4 x 0,75 (4 cores)	500m	6.2mm	Number Coded Cores
1119105	5G 0,75 (4+E)	500m	6.7mm	Number Coded Cores
1119107	7G 0,75 (6+E)	500m	7.3mm	Number Coded Cores
1119112	12G 0,75 (11+E)	500m	9.9mm	Number Coded Cores
1119118	18G 0,75 (17+E)	500m	12mm	Number Coded Cores
1119125	25G 0,75 (24+E)	500m	13.8mm	Number Coded Cores

1mm | Classic 110 (Unscreened)



Product Code	Cores	Drum Length	Outer Diameter	Cores
1119852	2 x 1 (2 cores)	500m	5.7mm	Number Coded Cores
1119203	3G 1,0 (2+E)	500m	6mm	Number Coded Cores
1119853	3 x 1,0 (3 cores)	500m	6mm	Number Coded Cores
1119204	4G 1,0 (3+E)	500m	6.5mm	Number Coded Cores
1119854	4 x 1,0 (4 cores)	500m	6.5mm	Number Coded Cores
1119205	5G 1,0 (4+E)	500m	7.1mm	Number Coded Cores
1119207	7G 1,0 (6+E)	500m	8mm	Number Coded Cores
1119212	12G 1,0 (11+E)	500m	10.5mm	Number Coded Cores
1119218	18G 1,0 (17+E)	500m	12.7mm	Number Coded Cores
1119225	25G 1,0 (24+E)	500m	14.7mm	Number Coded Cores
1119241	41 G 1,0 (40+E)	500m	18.8mm	Number Coded Cores
1119250	50 G 1,0 (49+E)	500m	20.6mm	Number Coded Cores

1.5mm | Classic 110 (Unscreened)



Product Code	Cores	Drum Length	Outer Diameter	Cores
1119303	3G 1,5 (2+E)	500m	6.7mm	Number Coded Cores
1119304	4G 1,5 (3+E)	500m	7.2mm	Number Coded Cores
1119305	5G 1,5 (4+E)	500m	8.1mm	Number Coded Cores
1119307	7G 1,5 (6+E)	500m	8.9mm	Number Coded Cores
1119312	12G 1,5 (11+E)	500m	12mm	Number Coded Cores
1119318	18G 1,5 (17+E)	500m	14.4mm	Number Coded Cores
1119325	25G 1,5 (24+E)	500m	6.69mm	Number Coded Cores
1119334	34G 1,5 (33+E)	500m	19.4mm	Number Coded Cores

2.5mm | Classic 110 (Unscreened)



LAPP KABEL



Product Code	Cores	Drum Length	Outer Diameter
1119403	3G 2,5 (2+E)	500m	8.1mm
1119404	4G 2,5 (3+E)	500m	8.9mm
1119405	5G 2,5 (4+E)	500m	10mm
1119407	7G 2,5 (6+E)	500m	11.1mm
1119412	12G 2,5 (11+E)	500m	14.8mm
1119418	18G 2,5 (17+E)	500m	17.8mm
1119425	25G 2,5 (24+E)	500m	20.8mm

4mm | Ölflex® Classic 110 (Unscreened)



Product Code	Cores	Drum Length	Outer Diameter
1119503	3G 4 (2+E)	500m	9.9mm
1119504	4G 4 (3+E)	500m	10.8mm
1119505	5G 4 (4+E)	500m	12.1mm
1119507	7G 4 (6+E)	500m	13.4mm

6mm | Ölflex® Classic 110 (Unscreened)



Product Code	Cores	Drum Length	Outer Diameter
1119603	3G 6 (2+E)	500m	11.7mm
1119604	4G 6 (3+E)	500m	3mm
1119605	5G 6 (4+E)	500m	14.5mm
1119607	7G 6 (6+E)	500m	16mm

10mm | Ölflex® Classic 110 (Unscreened)



Product Code	Cores	Drum Length	Outer Diameter
1119614	4G 10 (3+E)	500m	16.2mm
1119615	5G 10(4+E)	500m	18.1mm

16mm | Ölflex® Classic 110 (Unscreened)



Product Code	Cores	Drum Length	Outer Diameter
1119624	4G 16 (3+E)	500m	18.8mm
1119625	5G 16 (4+E)	500m	21.2mm

25mm + 35mm | Ölflex® Classic 110 (Unscreened)



Product Code	Cores	Drum Length	Outer Diameter
1119634	4G 25 (3+E)	500m	23.5mm
1119635	5G 25 (4+E)	500m	26.4mm
1119644	4G 35 (3+E)	500m	26.4mm
1119645	5G 35 (4+E)	500m	29.6mm

0.5mm | Classic 115 CY (Screened) (Number Coded Cores)



Product Code	Cores	Drum Length	Outer Diameter
1136752	2 x 0,5 (2 cores)	500m	5.8mm
1136003	3G 0,5 (2+E)	500m	6.1mm
1136753	3 x 0,5 (3 cores)	500m	6.1mm
1136004	4G 0,5 (3+E)	500m	6.5mm
1136005	5G 0,5 (4+E)	500m	7mm
1136007	7G 0,5 (6+E)	500m	7.5mm
1136012	12G 0,5 (11+E)	500m	9.9mm
1136018	18G 0,5 (17+E)	500m	11.5mm
1136025	25G 0,5 (24+E)	500m	13.4mm

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0.75mm | Classic 115 CY (Screened) (Number Coded Cores)



Product Code	Cores	Drum Length	Outer Diameter
1136103	3G 0,75 (2+E)	500m	6.5mm
1136104	4G 0,75 (3+E)	500m	7mm
1136105	5G 0,75 (4+E)	500m	7.7mm
1136107	7G 0,75 (6+E)	500m	8.3mm
1136112	12G 0,75 (11+E)	500m	10.9mm
1136118	18G 0,75 (17+E)	500m	12.7mm
1136125	25G 0,75 (24+E)	500m	14.8mm

1mm | Classic 115 CY (Screened) (Number Coded Cores)



Product Code	Cores	Drum Length	Outer Diameter
1136203	3G 0,75 (2+E)	500m	6.5mm
1136204	4G 1,0 (3+E)	500m	7.3mm
1136205	5G 1,0 (4+E)	500m	8.1mm
1136207	7G 1,0 (6+E)	500m	8.8mm
1136218	18G 1,0 (17+E)	500m	13.9mm
1136225	25G 1,0 (24+E)	500m	15.9mm

1.5mm | Classic 115 CY (Screened) (Number Coded Cores)



Product Code	Cores	Drum Length	Outer Diameter
1136303	3G 1,5 (2+E)	500m	7.5mm
1136304	4G 1,5 (3+E)	500m	8.2mm
1136305	5G 1,5 (4+E)	500m	8.9mm
1136307	7G 1,5 (6+E)	500m	9.9mm
1136312	12G 1,5 (11+E)	500m	13mm
1136318	18G 1,5 (17+E)	500m	15.6mm
1136325	25G 1,5 (24+E)	500m	17.9mm

2.5mm | Classic 115 CY (Screened) (Number Coded Cores)



Product Code	Cores	Drum Length)	Outer diameter
1136403	3G 2,5 (2+E)	500m	8.9mm
1136404	4G 2,5 (3+E)	500m	9.9mm
1136405	5G 2,5 (4+E)	500m	11mm
1136407	7G 2,5 (6+E)	500m	11.9mm
1136412	12G 2,5 (11+E)	500m	16mm
1136418	18G 2,5 (17+E)	500m	19mm
1136425	25G 2,5 (24+E)	500m	22.2mm

4mm | Classic 115 CY (Screened) (Number Coded Cores)



Product Code	Cores	Drum Length	Outer Diameter
1136504	4G 4 (3+E)	500m	11.6mm
1136507	7G 4 (6+E)	500m	14.4mm

Profibus DP Cable | UNITRONIC® BUS



Product Code	Article Designation	Description	Number Of Pairs & Conductor	Outer Dia.	Copper Index	Weight	Drum Length
2170220	PB(fixed), standard, Profibus DP (purple)	Conventional cable assembly	1 x 2 x 0.64mm	8mm	30.1kg / km	74kg	500m
2170222	FD P L2/Fip (Hi-flex) purple	Drag chain, Profibus DP cable, highly flexible application	1 x 2 x 0.64mm	8mm	26kg / km	79kg	500m



Industrial Ethernet Cable (CAT 5) | Profinet Cable

	Product Code	Article Designation	Description	Number of Pairs & Conductor	Outer Dia.	Drum Length
	2170300	ETHERLINE® P (Flex) CAT.5e, (standard) green	For flexible application (7- wire std. conductor, green in colour) drag chain	4x2xAWG 26/7mm	6.1mm	500m
	2170891	ETHERLINE® CAT.5e Profinet green	Fixed applications	2x2xAWG 22/1mm	6.1mm	500m

Unitronic LIYCY (TP) (Twisted Pair With Overall Braided Screen)

	Product Code	Number of Cores and mm ² Per Conductor	Outer Diameter	Drum Length
	0035802	4 x 2 x 0.25mm	7.6mm	500m
	0035804	8 x 2 x 0.25mm	10.3mm	500m
	0035807	16 x 2 x 0.25mm	12.5mm	500m
	*All Unitronic cables LIYCY + LIYCY (TP) have no separte earth core.			

Unitronic LIYCY (Data Cable With Overall Braided Screen)

	Product Code	Number of Cores and mm² Per Conductor	Outer Diameter	Drum Length
	0034602	2 x 0.5mm	5.6mm	500m
	0034604	4 x 0.5mm	6.3mm	500m
	0034608	8 x 0.5mm	8.7mm	500m
	0034612	12 x 0.5mm	9.6mm	500m
	No seperate earth core.			

Glands: Polyamide Metric



Product Code	Description	Colour	Product Code	Description	Colour
53111000	M12	Grey	53111200	M12	Black
53111010	M16	Grey	53111210	M16	Black
53111020	M20	Grey	53111220	M20	Black
53111030	M25	Grey	53111230	M25	Black
53111040	M32	Grey	53111240	M32	Black
53111050	M40	Grey	53111250	M40	Black
53111060	M50	Grey	53111260	M50	Black
53111070	M63	Grey	53111270	M63	Black
Black - RAL9005 Grey - RAL7001 Locknut ordered seperately.					

*For the Flexbox gland range, please refer to page 128.

Nuts: Polyamide Metric



Product Code	Description	Colour	Product Code	Description	Colour
53119000	M12	Grey	-	M12	Black
53119010	M16	Grey	53119110	M16	Black
53119020	M20	Grey	53119120	M20	Black
53119030	M25	Grey	53119130	M25	Black
53119040	M32	Grey	53119140	M32	Black
53119050	M40	Grey	53119150	M40	Black
53119060	M50	Grey	53119160	M50	Black
53119070	M63	Grey	53119170	M63	Black

Glands: Metal Metric (Nickel Plated Brass)



Product Code	53112000	53112010	53112020	53112030	53112040	53112050	53112060	53112070
Description	M12	M16	M20	M25	M32	M40	M50	M63
Locknut ordered seperately.								

Nuts: Metal Metric (Nickel Plated Brass)



Product Code	Description	Product Code	Description
52103000	M12	52103040	M32
52103010	M16	52103050	M40
52103020	M20	52103060	M50
52103030	M25	52103070	M63

Panel Wire 0.5mm



Product Code	Description	Coil Length
4510001	H05V-K 0.5mm Panel Flex Green / Yellow	100m
4510011	H05V-K 0.5mm Panel Flex Black	100m
4510021	H05V-K 0.5mm Panel Flex Blue	100m
4510031	H05V-K 0.5mm Panel Flex Brown	100m
4510041	H05V-K 0.5mm Panel Flex Red	100m
4510051	H05V-K 0.5mm Panel Flex White	100m
4510061	H05V-K 0.5mm Panel Flex Grey	100m
4510071	H05V-K 0.5mm Panel Flex Violet	100m
4510081	H05V-K 0.5mm Panel Flex Pink	100m
4510091	H05V-K 0.5mm Panel Flex Orange	100m
4510111	H05V-K 0.5mm Panel Flex Yellow	100m
4510121	H05V-K 0.5mm Panel Flex Green	100m
4510141	H05V-K 0.5mm Panel Flex Dark Blue	100m

Panel Wire 0.75mm



Product Code	Description	Coil Length
4510002	H05V-K 0.75mm Panel Flex Green / Yellow	100m
4510012	H05V-K 0.75mm Panel Flex Black	100m
4510022	H05V-K 0.75mm Panel Flex Blue	100m
4510032	H05V-K 0.75mm Panel Flex Brown	100m
4510042	H05V-K 0.75mm Panel Flex Red	100m
4510052	H05V-K 0.75mm Panel Flex White	100m
4510062	H05V-K 0.75mm Panel Flex Grey	100m
4510072	H05V-K 0.75mm Panel Flex Violet	100m
4510092	H05V-K 0.75mm Panel Flex Orange	100m
4510142	H05V-K 0.75mm Panel Dark Blue	100m

Panel Wire 1.00mm



Product Code	Description	Coil Length
4510003	H05V-K 1.0mm Panel Flex Green / Yellow	100m
4510013	H05V-K 1.0mm Panel Flex Black	100m
4510023	H05V-K 1.0mm Panel Flex Blue	100m
4510033	H05V-K 1.0mm Panel Flex Brown	100m
4510043	H05V-K 1.0mm Panel Flex Red	100m
4510053	H05V-K 1.0mm Panel Flex White	100m
4510063	H05V-K 1.0mm Panel Flex Grey	100m
4510073	H05V-K 1.0mm Panel Flex Violet	100m
4510083	H05V-K 1.0mm Panel Flex Pink	100m
4510093	H05V-K 1.0mm Panel Flex Orange	100m
4510113	H05V-K 1.0mm Panel Flex Yellow	100m
4510123	H05V-K 1X1mm Panel Flex Green	100m
4510143	H05V-K 1.0mm Panel Flex Dark Blue	100m

Images are for visual purposes only, kindly take note of the colour options.

Panel Wire 1.5mm



Product Code	Description	Coil Length
4520001	H07V-K 1.5mm Panel Flex Green / Yellow	100m
4520011	H07V-K 1.5mm Panel Flex Black	100m
4520021	H07V-K 1.5mm Panel Flex Blue	100m
4520031	H05V-K 1.5mm Panel Flex Brown	100m
4520041	H07V-K 1.5mm Panel Flex Red	100m
4520051	H07V-K 1.5mm Panel Flex White	100m
4520061	H07V-K 1.5mm Panel Flex Grey	100m
4520071	H07V-K 1.5mm Panel Flex Violet	100m
4520081	H07V-K 1.5mm Panel Flex Pink	100m
4520091	H07V-K 1.5mm Panel Flex Orange	100m
4520111	H07V-K 1.5mm Panel Flex Yellow	100m
4520141	H07V-K 1.5mm Panel Flex Dark Blue	100m

Panel Wire 2.5mm



Product Code	Description	Coil Length
4520002	H07V-K 2.5mm Panel Flex Green / Yellow	100m
4520012	H07V-K 2.5mm Panel Flex Black	100m
4520022	H07V-K 2.5mm Panel Flex Blue	100m
4520032	H07V-K 2.5mm Panel Flex Brown	100m
4520042	H07V-K 2.5mm Panel Flex Red	100m
4520052	H07V-K 2.5mm Panel Flex White	100m
4520072	H07V-K 2.5mm Panel Flex Violet	100m
4520092	H07V-K 2.5mm Panel Flex Orange	100m
4520112	H07V-K 2.5mm Panel Flex Yellow	100m
4520142	H05V-K 2.5mm Panel Flex Dark Blue	100m

Panel Wire 4.0mm



Product Code	Description	Coil Length
4520003	H07V-K 4.0mm Panel Flex Green / Yellow	100m
4520013	H07V-K 4.0mm Panel Flex Black	100m
4520023	H07V-K 4.0mm Panel Flex Blue	100m
4520033	H07V-K 4.0mm Panel Flex Brown	100m
4520043	H07V-K 4.0mm Panel Flex Red	100m
4520053	H07V-K 4.0mm Panel Flex White	100m
4520143	H07V-K 4.0mm Panel Flex Dark Blue	100m

Panel Wire 6.0mm



Product Code	Description	Coil Length
4520004	H07V-K 6.0mm Panel Flex Green / Yellow	100m
4520014	H07V-K 6.0mm Panel Flex Black	100m
4520024	H07V-K 6.0mm Panel Flex Blue	100m
4520034	H07V-K 6.0mm Panel Flex Brown	100m
4520044	H07V-K 6.0mm Panel Flex Red	100m
4520054	H07V-K 6.0mm Panel Flex White	100m
4520144	H05V-K 6mm Panel Flex Dark Blue	100m

Images are for visual purosos only, kindly take note of the colour options.

Metal Conduits Flexible Insulated (Black & Orange) Ribbed

FLEX Kabel



Product Code Black Conduit	Product Code Orange Conduit	Internal Conduit Size Ø	External Conduit Ø	Coil Length	Flexicon Ref. Black	Flexicon Ref. Orange	Flexkabel Gland Ref.(Fixed)	Flexkabel Gland Ref.(Swivel)
360141710-BLACK	360141710-ORANGE	13.5mm	M16	25M	TSP16/BL	TSP16/O	R-ESR-M2	R-EDR-M2
360161710-BLACK	360161710-ORANGE	15.5mm	M20	25M	TSP20/BL	TSP20/O	R-ESR-M3	R-EDR-M3
360211710-BLACK	360211710-ORANGE	20.5mm	M25	25M	TSP25/BL	TSP25/O	R-ESR-M4	R-EDR-M4
360262013-BLACK	360262013-ORANGE	25.5mm	M32	10M	TSP32/BL	TSP32/O	R-ESR-M5	R-EDR-M5
360352013-BLACK	360352013-ORANGE	35mm	M40	10M	TSP40/BL	TSP40/O	R-ESR-M6	R-EDR-M6

Straight Fixed Glands Steel



Product Code	Gland Exit	External Conduit Ø	Internal Conduit Ø	Description	Flexkabel Conduit Ref.
R-ESR-M2	M16	M16x1.5	M13.5	Fixed glands, straight	360141710
R-ESR-M3	M20	M20x1.5	M15.5	Fixed glands, straight	360161710
R-ESR-M4	M25	M25x1.5	M20.5	Fixed glands, straight	360211710
R-ESR-M5	M32	M32x1.5	M25.5	Fixed glands, straight	360262013
R-ESR-M6	M40	M40x1.5	M35	Fixed glands, straight	360352013

Locknuts included.

Straight Swivel Glands Steel



Product Code	Gland Exit	External Conduit Ø	Internal Conduit Ø	Description	Flexkabel Conduit Ref.
R-EDR-M2	M16	M16x1.5	M13.5	Swivel glands, straight	360141710
R-EDR-M3	M20	M20x1.5	M15.5	Swivel glands, straight	360161710
R-EDR-M4	M25	M25x1.5	M20.5	Swivel glands, straight	360211710
R-EDR-M5	M32	M32x1.5	M25.5	Swivel glands, straight	360262013
R-EDR-M6	M40	M40x1.5	M35	Swivel glands, straight	360352013

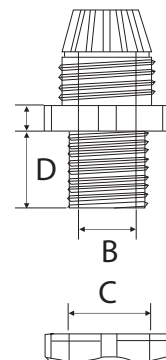
Locknuts included.

Metric Type IP 68 Polyamide Cable Gland | (RAL 7035) Light Grey, (RAL 7001) Dark Grey & (RAL 9005) Black



Product Code For Ral 7035	Product Code For Ral 7001	Product Code For Ral 9005	Size	Mounting Dia C	Cable Die Min-Max B	Thread Length D
M12x1.5 LG	M12x1.5 DG	-	M12 x 1.5	12	3-6.5	10
M16x1.5 LG	M16x1.5 DG	M16x1.5 B	M16 x 1.5	16	5-10	10
M20x1.5 LG	M20x1.5 DG	M20x1.5 B	M20 x 1.5	20	6-12	10
M25x1.5 LG	M25x1.5 DG	M25x1.5 B	M25 x 1.5	25	13-18	10.5
M32x1.5 LG	M32x1.5 DG	M32x1.5 B	M32 x 1.5	32	16-21	16
M40x1.5 LG	M40x1.5 DG	M40x1.5 B	M40 x 1.5	40	22-32	18
M63x1.5 LG	M63x1.5 DG	M63x1.5 B	M63 x 1.5	63	37-44	18
M12x15MMLG	-	-	M12 x 1.5	12	3-6	15
M16x15MMLG	-	-	M16 x 1.5	16	4-8	15
M20x15MMLG	-	-	M20 x 1.5	20	6-12	15
M25x15MMLG	-	-	M25 x 1.5	25	13-18	15

Includes O-ring | Includes locknut - RAL 7001 - Dark Grey, RAL 7035 - Light Grey | MMLG (Extra thread length)



Gland Blank Insert

	Product Code	Description
	M12-IBL	Black(RAL 9005) Insert for M12 gland
	M16-IBL	Black(RAL 9005) Insert for M16 gland
	M20-IBL	Black(RAL 9005) Insert for M20 gland
	M25-IBL	Black(RAL 9005) Insert for M25 gland
	M32-IBL	Black(RAL 9005) Insert for M32 gland
	M40-IBL	Black(RAL 9005) Insert for M40 gland
	M63-IBL	Black(RAL 9005) Insert for M63 gland

Vent Plugs



Product Code	Size	Colour
M12-Vent	M12 x 1.5	RAL 7035



Flex9511	M25 x 1.5 Panel Airflow Blindspot	RAL 7035
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Flex9501	M40 x 1.5 Panel Airflow Equipment	RAL 7035
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28400.0-00	M40 x 1.5 Plastic IP66	RAL 7035	2 Pieces
28400.0-01	M40 x 1.5 Plastic IP66	RAL 7035	1 Piece



Uni Split Gland

	Gland Splittable	
	Product Code	Connection
	USG22554PC	M25 x 1.5 (Gland body splittable), IP67
	1420/225GGM	M25 x 1.5 (Locknut splittable), IP67



Cable Protection PAREB (Conduit Flexible)



Product Code	Description	Length	Metric
PAREB-07G	Flexible conduit 7mm / 10mm	100m	M10
PAREB-10F	Flexible conduit 10mm / 12mm	50m	M12
PAREB-12F	Flexible conduit 12mm / 16mm	50m	M16
PAREB-17F	Flexible conduit 17mm / 20mm	50m	M20
PAREB-23F	Flexible conduit 23mm / 25mm	50m	M25
PAREB-29F	Flexible conduit 29mm / 32mm	50m	M32
PAREB-36F	Flexible conduit 36mm / 40mm	30m	M40
PAREB-48F	Flexible conduit 48mm / 50mm	30m	M50
PAREB-52G	Flexible conduit 52mm / 62mm	10m	M50
PAREB-70G	Flexible conduit 70mm / 83mm	10m	M70
PAREB-95G	Flexible conduit 95mm / 50mm	10m	M95
*Material; Polyamide 6, UV stable (larger sizes available).			

Tube Clamps



Product Code	Description	Pack	Metric
MES1B-07	Tube clamp 7mm	100	M10
MES1B-10	Tube clamp 10mm	100	M12
MES1B-12	Tube clamp 12mm	50	M16
MES1B-14	Tube clamp 14mm	50	M16
MES1B-17	Tube clamp 17mm	50	M20
MES1B-23	Tube clamp 23mm	50	M25
MES1B-29	Tube clamp 29mm	30	M32
MES1B-36	Tube clamp 36mm	20	M40
MES1B-48	Tube clamp 48mm	20	M50

Support Brackets



Product Code	Description	Pack	Metric
PAHOB-07	System support	100	M10
PAHOB-10	System support	100	M12
PAHOB-12	System support	50	M16
PAHOB-17	System support	50	M20
PAHOB-23	System support	50	M25
PAHOB-29	System support	30	M32
PAHOB-36	System support	20	M40
PAHOB-48	System support	20	M50

Top Support



Product Code	Description	Pack
PADSB-07/10	System support for PAHOB-07 & PAHOB-10	20
PADSB-12	System support for PAHOB-12	20
PADSB-17	System support for PAHOB17	20
PADSB-23	System support for PAHOB23	20
PADSB-29	System support for PAHOB29	20
PADSB-36	System support for PAHOB36	20
PADSB-48	System support for PAHOB48	20
PAVSB	Connecting piece for top support	50



Threaded Straight Connectors / Glands

	Product Code	Description	Metric
	PAGOB-07M12	M12 straight cable gland	M12
	PAGOB-10M16	M16 straight cable gland	M16
	PAGOB-12M16	M16 straight cable gland	M16
	PAGOB-17M20	M20 straight cable gland	M20
	PAGOB-17M25	M25 straight cable gland	M25
	PAGOB-17M32	M32 straight cable gland	M32
	PAGOB-23M25	M25 straight cable gland	M25
	PAGOB-23M32	M32 straight cable gland	M32
	PAGOB-29M32	M32 straight cable gland	M32
	PAGOB-36M40	M40 straight cable gland	M40
	PAGOB-48M50	M50 straight cable gland	M50
	PAGOB-52	M52 straight cable gland	M52
	PAGOB-70	M70 straight cable gland	M70
	PAGOB-95	M95 straight cable gland	M95
Locknuts ordered seperately.			

Locknuts

	Product Code	Metric	Product Code	Metric
	PAGMB-M12	M12	PAGMB-M32	M32
	PAGMB-M16	M16	PAGMB-M40	M40
	PAGMB-M20	M20	PAGMB-M50	M50
	PAGMB-M25	M25	-	-

Threaded Arched 90° Elbow Connectors / Glands 90°

	Product Code	Metric	Product Code	Metric
	VPBRB-10M16	M16	VPBRB-29M32	M32
	VPBRB-12M16	M16	VPBRB-36M40	M40
	VPBRB-17M20	M20	VPBRB-48M50	M50
	VPBRB-23M25	M25	-	-
Locknuts ordered seperately.				

Sliced Conduit (Split Conduit) 2 Piece

PPRTB polypropylene, two-parts divisible tubing, black (split)

	Product Code	Nominal Width	Internal Diameter	External Diameter	Qty.
	PPRTB-17	17 nw	15,1mm (int.)	21,3mm (out)	50m
	PPRTB-24	24 nw	24mm (int.)	31,5mm (out)	50m
	PPRTB-29	29 nw	26,6mm (int.)	34,4mm (out)	25m
	Other sizes / diameters are available, please enquire.				

Gripping Clamps (Saddles)

	Product Code	Description	Packs
	PASSB-29K	Reiku Gripping clamp, type K, NW 29mm	Each
	PASSB-52K	Reiku Gripping Clamp, plastic closure, NW 52mm	Each
	PASSB-70K	Reiku Gripping clamp, type K, NW 70mm	Each
	PASSB-70M	Reiku Gripping clamp, type M, NW 70mm	Each



Favier Group, producer since 1927

With two brands and two sites of production in France and in Italy, the fourth generation of that PME is axed towards conception and production of insulating sleeveings with a wide range of thermal and dielectric protecting sleeveings intended to a large diversity of applications: electromecanic, lighting, automotive, electric household, aeronautic, iron and steel industry.

Glass Fibre Braided Sleeving – Coated With Silicone Rubber



Product Code	Diameter	Description	Coil
SCS-1.5 x 6MM	6mm	Working temperature: from -60°C to +250°C, Red	100m
SCS-1.5x6MM-BLACK	6mm	Working temperature: from -60°C to +250°C, Black	100m
SCS-1.5 x 8MM	8mm	Working temperature: from -60°C to +250°C, Red	100m
SCS-1.5x10MM	10mm	Working temperature: from -60°C to +250°C, Red	100m
SCS-1.5x10MM-BLACK	10mm	Working temperature: from -60°C to +250°C, Black	100m
SCS-1.5 x12MM	12mm	Working temperature: from -60°C to +250°C, Red	100m
SCS-1.5x12MM-BLACK	12mm	Working temperature: from -60°C to +250°C, Black	100m
SCS-1.5x16MM	16mm	Working temperature: from -60°C to +250°C, Red	50m
SCS-1.5x20MM	20mm	Working temperature: from -60°C to +250°C, Red	50m
SCS-1.5x20MM-BLACK	20mm	Working temperature: from -60°C to +250°C, Black	50m
SCS3KV-20MM	20mm	Working temperature: from -60°C to +250°C, Red	50m
SCS-1.5x40MM	40mm	Working temperature: from -60°C to +250°C, Red	30m
SCS-3KV-40MM	40mm	Working temperature: from -60°C to +250°C, Red	30m
SCS-3KV-80MM	80mm	Working temperature: from -60°C to +250°C, Red	10m
Other colours and sizes available, please enquire.			

Fibre Glass Braid With Silicone Varnish



Product Code	Diameter	Description	Coil
SCS-THT-1.5x10MM	10mm	Working temperature: from -60°C to +260°C	50m
SCS-THT-1.5x16MM	16mm	Working temperature: from -60°C to +260°C	50m
SCS-THT-1.5x22MM	22mm	Working temperature: from -60°C to +260°C	30m
SCS-THT-1.5x32MM	32mm	Working temperature: from -60°C to +260°C	30m
SCS-THT-1.5x45MM	45mm	Working temperature: from -60°C to +260°C	30m
SCS-THT-1.5x60MM	60mm	Working temperature: from -60°C to +260°C	30m
SCS-THT-1.5x80MM	80mm	Working temperature: from -60°C to +260°C	30m
SCS-THT-1.5x102MM	102mm	Working temperature: from -60°C to +260°C	30m
Peaks at: -30min at 800°C, -15min at 1100°C, -1min at 1500°C. The colour for all coils is Brick red.			

Glass Fibre Braided Sleeving Treated High Temperature



Product Code	Diameter	Description	Coil
SHT-1.5x2MM	2mm	Silver glass sleeving	50m
SHT-1.5x4MM	4mm	Silver glass sleeving	50m
SHT-1.5x6MM	6mm	Silver glass sleeving	50m
SHT-1.5x10MM	10mm	Silver glass sleeving	50m
SHT-1.5x16MM	16mm	Silver glass sleeving	50m
SHT-1.5x20MM	20mm	Silver glass sleeving	50m
SHT-1.5x30MM	30mm	Silver glass sleeving	50m
Temperature range (-60°C to +450°C)			

Pinchweld Rubber



Product Code	Diameter	Description	Coil
PR118	1–6mm	Pinchweld Rubber	Per/M



PIK-Trunking



Description

PFLITSCH's PIK-Trunking is designed for routing small numbers of cables. It is also ideal for use where the available installation space is scarce. It is therefore the practical alternative in these situations. With greater sheet thickness and creased side walls, PIK retains its shape under load very well.

Your advantages:

- Strong construction in ten different cross sections
- Comprehensive edge protection
- Deburred longitudinal edges
- Covers with equipotential bonding
- Simple installation
- Galvanised steel

PIK Trunking With Cover (2M Length)



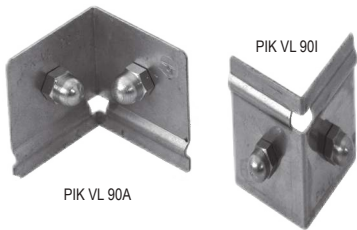
Product Code	Description	Length
PIK 15/15 S	15 x 15mm	2m
PIK 30/30 S	30 x 30mm	2m
PIK 40/40 S	40 x 40mm	2m
PIK 60/60 S	60 x 60mm	2m
PIK 60/40 S	60 x 40mm	2m
PIK 80/60 S	80 x 60mm	2m
PIK 100/60 S	100 x 60mm	2m
PIK 120/60 S	120 x 60mm	2m
PIK 150/60 S	150 x 60mm	2m
PIK 200/60 S	200 x 60mm	2m
*Galvanised steel.		

PIK Cover Only



Product Code	Description	Length
PIK D 15/15 S	15 x 15mm	2m
PIK D 30/30 S	30 x 30mm	2m
PIK D 40/40 S	40 x 40mm	2m
PIK D 60/60 S	60 x 60mm	2m
PIK D 60/40 S	60 x 40mm	2m
PIK D 80/60 S	80 x 60mm	2m
PIK D 100/60 S	100 x 60mm	2m
PIK D 120/60 S	120 x 60mm	2m
PIK D 150/60 S	150 x 60mm	2m
PIK D 200/60 S	200 x 60mm	2m
*Galvanised steel.		

PIK Coupler 90 Degree



Product Code	Description
PIK VL 90A	External Coupler, sold per each
PIK VL 90I	Internal Coupler, sold per each

PIK Coupler Straight (Splices)



Product Code	Description
PIK VI 15 VA	15mm wide trunking, sold per each
PIK VI 30 VA	30mm wide trunking, sold per each
PIK VI 40 VA	40mm wide trunking, sold per each
PIK VI 60 VA	60mm wide trunking, sold per each

PIK Holdown Bracket



Product Code	Description
PIK HK 15	15mm wide trunking, sold per each
PIK HK 30	30mm wide trunking, sold per each
PIK HK 40	40mm wide trunking, sold per each
PIK HK 60	60mm wide trunking, sold per each

PIK Plastic Edge Protection Caps



Product Code	Description
PIK KS 15/15	TPE, 15 x 15mm, sold per each
PIK KS 30/30	TPE, 30 x 30mm, sold per each
PIK KS 40/40	TPE, 40 x 40mm, sold per each
PIK KS 60/60	TPE, 60 x 60mm, sold per each
PIK KS 60/40	TPE, 60 x 40mm, sold per each
PIK KS 80/60	TPE, 80 x 60mm, sold per each
PIK KS 100/60	TPE, 100 x 60mm, sold per each
PIK KS 120/60	TPE, 120 x 60mm, sold per each
PIK KS 150/60	TPE, 150 x 60mm, sold per each
PIK KS 200/60	TPE, 200 x 60mm, sold per each

PIK Plastic End Cap



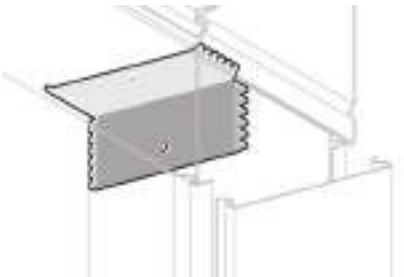
Product Code	Description
PIK EK 15/15	TPE, 15 x 15mm, sold per each
PIK EK 30/30	TPE, 30 x 30mm, sold per each
PIK EK 40/40	TPE, 40 x 40mm, sold per each
PIK EK 60/60	TPE, 60 x 60mm, sold per each
PIK EK 60/40	TPE, 60 x 40mm, sold per each
PIK EK 80/60	TPE, 80 x 60mm, sold per each
PIK EK 100/60	TPE, 100 x 60mm, sold per each
PIK EK 120/60	TPE, 120 x 60mm, sold per each
PIK EK 150/60	TPE, 150 x 60mm, sold per each
PIK EK 200/60	TPE, 200 x 60mm, sold per each

Edge Protection, Lateral



Product Code	Description
PIK KSSV 30	TPE, 15 x 12mm opening
PIK KSSV 40	TPE, 20 x 19mm opening
PIK KSSV 60	TPE, 35 x 39mm opening
The plastic edge protection protects the cables and lines against damage by the sheet edges at the lateral openings.	

Coupler Ben - External



Product Code	Description
PIK WVA 15/15	VA, 15(H) x 15(W)mm
PIK WVA 30/30	VA, 30(H) x 30(W)mm
PIK WVA 40/40	VA, 40(H) x 40(W)mm
PIK WVA 60/60	VA, 60(H) x 60(W)mm
Equipotential bonding as per DIN VDE 0604/0606, if connected via secure mechanical means, e.g. riveted and screwed. Close open trunking end with end cap, S.	

Coupler Corner Flush - Angular Design



Product Code	Description
PIK WVF 15/15	VA, 15(H) x 15(W)mm
PIK WVF 30/30	VA, 30(H) x 30(W)mm
PIK WVF 40/40	VA, 40(H) x 40(W)mm
PIK WVF 60/60	VA, 60(H) x 60(W)mm
Potential equalisation as per DIN VDE 0604/0606, if connected via secure mechanical means, e.g. riveted and screwed. Close open trunking end with end cap, S.	

Tee Coupler, Flush

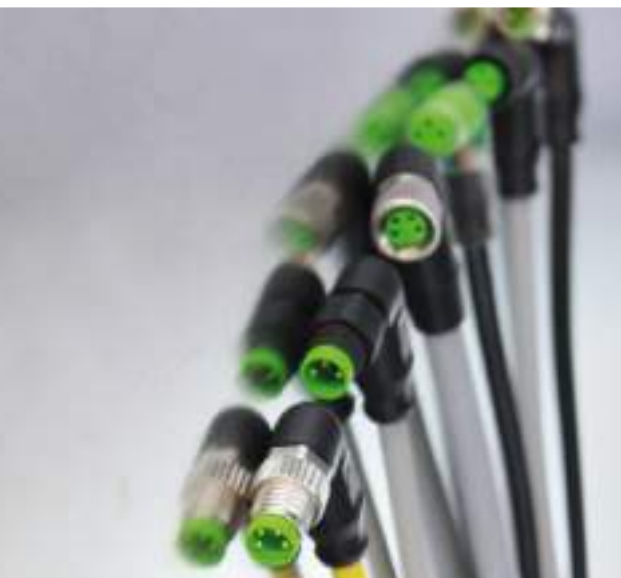


Product Code	Description
PIK TVF 15/15	VA, 15(H) x 15(W)mm
PIK TVF 30/30	VA, 30(H) x 30(W)mm
PIK TVF 40/40	VA, 40(H) x 40(W)mm
PIK TVF 60/60	VA, 60(H) x 60(W)mm
Potential equalisation as per DIN VDE 0604/0606, if connected via secure mechanical means, e.g. riveted and screwed. Close open trunking end with end cap, S.	



Sensing & Connectivity

We supply all industrial sensing and detection systems by top brands such as Murrelektronik, Balluff and Sensopart. We provide all the connectivity equipment to use with the sensors and measurement devices. The full complement of field sensing and switching devices includes proximity switches and photoelectric sensors.



FR 10-R | Retro reflective Photoelectric Sensor



Compact High-Performance Photoelectric Sensor

- Sub-miniature sensor for installation in the smallest of spaces
- Despite its very small sensor housing, it has a long operating range of 1.6 m.
- Fast response time: only 500 µs.
- Static and dynamic teach-in via electronic teach-in button or control line.
- Simple mounting and adjustment through an innovative dovetail clamp mounting system.

Product Code	Type Light	Operating Range	Type of Connection	Material	Operating Voltage	Switching Frequency	IP Rating	Switching Output
603-11003	LED, red, 650nm	0.1 ... 1.6 m	Pigtail, 200 mm with M8 plug, 3-pin	PUR	10 ... 30V DC	≤ 1000 Hz	IP67	PNP

FT 20 RH | Photoelectric Proximity Sensor With Background Suppression



Compact Photoelectric Sensor with Background Suppression

- Precise background suppression
- Simple alignment, thanks to an easily visible light spot

Product Code	Type Light	Operating Range	Type of Connection	Material	Operating Voltage	Switching Frequency	IP Rating	Switching Output
551-11001	LED, red, 640nm	25 ... 100 mm	Cable, 2m, 4-wire	ABS	10 ... 30 V DC	≤ 1000 Hz	IP67	PNP/NPN

FT 25-R | Photoelectric Diffuse Sensor



Precision Sensor with Advanced Features

- Differentiates between even the slightest grey value differences
- Sensor settings via teach-in and control input
- Simple alignment, thanks to an easily visible light spot
- Robust glass-fibre-reinforced plastic housing
- Durable laser printing
- Setting of smart functions via IO-Link

Product Code	Type Light	Operating Range	Type of Connection	Material	Operating Voltage	Switching Frequency	IP Rating	Switching Output (PNP/NPN)
607-21027	LED, red, 632nm	0 ... 800 mm	Plug, M8x1, 4-pin, IO-Link	ABS	10 ... 30 V DC	≤ 1000 Hz	IP69 & IP67	1x Auto-Detect

FT 25-BH | Bluelight-Photoelectric Diffuse Sensor With Background Suppression



Miniature BlueLight Sensor with Adjustable Background Suppression

- Miniature sensor with BlueLight technology and precisely adjustable background suppression
- Reliable switching with strongly light-absorbing and shiny objects
- Reliable operation even with highly reflective backgrounds, thanks to SensoPart ASIC technology
- Simple alignment due to the easily visible light spot
- Sensor settings via teach-in, control input, and IO-Link
- Robust glass-fibre-reinforced plastic housing

Product Code	Type Light	Operating Range	Type of Connection	Material	Operating Voltage	Switching Frequency	IP Rating	Switching Output
608-11063	LED, blue, 450nm	0 ... 200mm	Metal plug, M8x1, 4-pin, IO-Link	ABS	10 ... 30 V DC	≤ 600 Hz	IP69 & IP67	Auto-Detect

FR 25-R | Photoelectric Retro-Reflective Sensor



Auto-Detect Retro-Reflective Sensor for Short-Range Applications

- Auto-detect photoelectric retro-reflective sensor with real PNP and real NPN functions
- Particularly suitable for short-range applications
- Simple alignment due to the easily visible light spot
- Robust glass-fibre-reinforced plastic housing
- Durable laser printing
- Wide range of variants
- Setting of smart functions

Product Code	Type Light	Operating Range	Type of Connection	Material	Operating Voltage	Switching Frequency	IP Rating	Switching Output
606-11006	LED, red, 632 nm	0.1 ... 6 m	Metal plug, M8x1, 3-pin	ABS	10 ... 30V DC	≤ 1000 Hz	IP69 & IP67	PNP
606-11042	LED, red, 632 nm	0.1 ... 6 m	Plug, M8x1, 4-pin, IO-Link	ABS	10 ... 30V DC	≤ 1000 Hz	IP69 & IP67	Auto-Detect

FR 25-RL | Retro-Reflective Laser Sensor



Compact Sensor Configuration for Short-Range Applications

- Ideal for short-range applications
- Compatible with a wide variety of reflectors
- Very small, clearly visible laser light spot
- Sensor settings via teach-in and control input
- Robust, glass-fibre-reinforced plastic housings
- Configuration of smart functions via IO-Link

Product Code	Type Light	Operating Range	Type of Connection	Material	Operating Voltage	Switching Frequency	IP Rating	Switching Output
609-31018	LED, red, 650 nm	0.1 ... 13 m	Metal plug, M8x1, 4-pin, IO-Link	ABS	10 ... 30V DC	≤ 4000 Hz	IP69 & IP67	Auto-Detect

FS/FE 25-R | Photoelectric Through-Beam Sensor



Sensor Testing and Configuration Features

- Test input for verifying sensor pairing functionality
- Sensor configuration via teach-in and control input even with highly reflective and glossy backgrounds
- Simple alignment due to a clearly visible light spot
- Robust, glass-fibre-reinforced plastic housings
- Durable laser marking
- Configuration of smart functions via IO-Link

Product Code	Type Light	Operating Range	Type of Connection	Material	Operating Voltage	Switching Frequency	IP Rating	Switching Output
605-21019	LED, red, 632 nm	0 ... 13m	Metal plug, M8x1, 4-pin, IO-Link	ABS	10 ... 30V DC	≤ 1000 Hz	IP69 & IP67	Auto-Detect

FT 55-BH(2) | Bluelight-Photoelectric Diffuse Sensor With Background Suppression



High-Performance Sensor with BlueLight Technology

- Long scanning distance of 1.2 m
- BlueLight technology with precisely adjustable background suppression – reliable operation even with highly reflective and glossy backgrounds
- Precise scanning distance adjustment using a potentiometer
- Reliable detection of highly transparent or strongly light-absorbing objects
- Dependable detection even at angles of up to 90°

Product Code	Type Light	Operating Range	Type of Connection	Material	Operating Voltage	Switching Frequency	IP Rating	Switching Output
623-11036	LED, blue, 450 nm	3 ... 1200 mm	Plug, M12x1, 4-pin	ABS	10 ... 30 V DC	≤ 1000 Hz	IP69 & IP67	PNP

FT 55-RLHP2 / -RLHP3 | Diffuse Laser Sensor With Background Suppression



Versatile High-Distance Detection Sensor (Time-Of-Flight Technology)

- For detection tasks with all object surfaces at high scanning distances
- Reliable object detection, even with tilted objects and bright, highly reflective, or shiny backgrounds
- Simple teach-in (including external)
- Clearly visible laser light spot (laser class 1) for easy alignment and full eye safety
- Stable switching performance when mounted in series

Product Code	Type Light	Operating Range	Type of Connection	Material	Operating Voltage	Switching Frequency	IP Rating	Switching Output
623-11039	Laser, red 655 nm	0 ... 5m	Plug, M12x1, 5-pin, IO-Link	ABS	18 ... 30V DC	≤ 500Hz	IP67 & IP69K	2x Auto-Detect

FR 55-RLAP | Distance Sensor With A Reflector For Large Distances



Long-Range Sensor for Anti-Collision and Positioning

- Sensor with long range for anti-collision and positioning applications
- High flexibility with adjustable analogue characteristic (QA)
- Four distance positions with two switching outputs, adjustable via window function
- Easy installation and operation via external teach-in
- Clearly visible laser light spot (laser class 1) for precise alignment and full eye safety
- Laser can be switched off via control line

Product Code	Type Light	Operating Range	Type of Connection	Material	Operating Voltage	Switching Frequency	IP Rating	Switching Output
621-11026	Laser, red 655 nm	0.3 ... 7m	Plug, M12x1, 8-pin	ABS	18 ... 30V DC	≤ 50 Hz	IP67 & IP69K	2x Auto-Detect

FT 55-RLAP | Distance Sensor For Large Distances



Long-Range Measurement and Control for All Surfaces

- Stable and precise distance measurement, even with tilted objects and bright, highly reflective backgrounds, via switching output
- High flexibility, thanks to an invertible analogue characteristic and window mode
- Clearly visible laser light spot (laser class 1) for easy alignment and complete eye safety

Product Code	Type Light	Operating Range	Type of Connection	Material	Operating Voltage	Switching Frequency	IP Rating	Switching Output
622-21023	Laser, red 655 nm	0.1 ... 5m	Plug, M12x1, 5-pin, IO-Link	ABS	18 ... 30V DC	≤ 250 Hz	IP67 & IP69K	Auto-Detect

FT 55-CM | High-End Colour Sensor



Consistent Colour Detection and Flexible Application Control

- Stable processes thanks to intelligent colour detection, regardless of distance
- Economical solutions with up to twelve storable colours or jobs
- Dependable switching behaviour with reliable glare suppression (depending on model)
- Customised adjustment to applications via digital colour value output using IO-Link

Product Code	Type Light	Operating Range	Type of Connection	Material	Operating Voltage	Switching Frequency	IP Rating	Switching Output
625-11020	LED, white	20 ... 150 mm	Plug, M12, 8-pin	-	18 ... 30 V DC	≤ 5 00 Hz	IP67 & IP69	Auto-Detect

FT 50 C | Colour Sensor with 3 Switching Outputs



Reliable Colour Detection with Advanced Optical Technology

- Colours are reliably detected despite fluctuating scanning distances, thanks to patented optical technology
- Three colours distinguishable via three switching outputs
- Even the smallest colour differences are reliably detected
- Easy teach-in of colours via Teach-in button or control line

Product Code	Type Light	Operating Range	Type of Connection	Material	Operating Voltage	Switching Frequency	IP Rating	Switching Output
575-11000	LED, white	12 ... 32/+6/4 mm	Plug, M12, 8-pin	ABS	12 ... 28V DC	≤ 500 Hz	IP67	3x PNP

FR 85 RailPilot | Distance Sensor For Collision Prevention



Wide Cone Detection Sensor with RS485 Interface

- Wide detection cone
- RS485 interface
- Reliable suppression of foreign objects (girders, pillars)

Product Code	Type Light	Operating Range	Type of Connection	Material	Operating Voltage	Switching Frequency	IP Rating	Switching Output
621-11026	Infrared, 905 nm	0 ... 6mm	Plug, M12x1, 8-pin	ABS	18 ... 30V DC	≤ 100 Hz	IP54	2x Auto-Detect

Accessory	Product Code	Description
	904-51562	Sensopart RL250 Reflector for ranges up to 50m 248 x 248 x 4.5mm

FR 85 RailPilot | Distance Sensor For Collision Prevention



Sensor with Wide Detection Cone

- Measurement range: 0 ... 6 m
- Wide detection cone
- RS485 interface / R = 1 KΩ
- Reliable suppression of foreign objects (girders, pillars)
- Ambient temperature: 0 ... +50 °C

Product Code	Type Light	Operating Range	Type of Connection	Material	Operating Voltage	No-load Current	IP Rating	Switching Output
529-11008	Infrared, 905 nm	0 ... 6 mm	Plug, M12x1, 5-pin	ABS	18 ... 30V DC	≤ 100 mA	IP54	PNP

Accessory	Product Code	Description
	904-51637	Sensopart RL250 Reflector for ranges up to 50m 100 x 100 x 9mm

SmartPlug MFI | NPN/PNP Converter / Inverter; Adjustable N.O./N.C.



Versatile High-Distance Detection Sensor (Time-Of-Flight Technology)

- Direct adaptation between sensor and connection cable
- Adjustable N.C. / N.O. function
- Simple settings via control line
- No additional installation necessary
- Switching frequency up to 10 kHz
- Switching amplifier up to 150 mA

Product Code	Indicator	Default Setting	Material	Operating Voltage	Input	IP Rating	Switching Output
968-21002	LED, red	N.O.	Plastic PBTP / PA	10 ... 30V DC	PNP	IP67	NPN
968-21003	Laser, red	N.O.	Plastic PBTP / PA	10 ... 30V DC	NPN	IP67	PNP

Type of Connection: Input: M12 x1 socket, 4-pin | Output: M12 x1 plug, 4-pin

Accessory Bracket for F 25 and F 20



- Features
- Accessory Bracket Type: F 25 and FL 20 Compatibility
 - Construction Material: High-strength aluminium for durability and corrosion resistance
 - Maximum Load Capacity: Designed to support loads up to 50 kg (subject to installation conditions)

Product Code	Description	Material
558-41000	Mounting bracket with screws, 1x retaining strip	Stainless steel V2A

Accessory Reflectors for Photoelectric Retro-Reflective Sensor



- Features
- High Reflectivity: Maximises light reflection for optimal detection ranges.
 - Durability: Made from robust, weather-resistant materials for long-lasting performance.
 - Versatile Mounting: Offers flexible installation options for various setups.

Product Code	Description	Dimensions	Mounting	Temperature Range
904-51531	Reflector in housing	Ø 84 x 9mm	1 mounting hole, centred	-20 ... +60 °C
904-51532	Reflector in housing	19 x 73 x 8mm	2 mounting holes M3	-20 ... +60 °C
904-51543	Reflector in housing	51 x 61 x 6.1mm	2 mounting holes (slots)	-20 ... +60 °C
904-51637	Reflector in housing	100 x 100 x 9.5mm	2 mounting holes (M3.5)	-20 ... +60 °C

Accessory Reflectors for Time-of-flight Devices



- Features
- High Reflectivity: Maximises signal return to the sensor, enhancing measurement accuracy and range.
 - Optimised Geometry: Designed to direct reflected light precisely back to the sensor, reducing losses.
 - Material Durability: Made from robust materials to withstand environmental conditions and ensure consistent performance.

Product Code	Description	Dimensions	Mounting	Temperature Range
904-5162	Reflector for ranges up to 50m	248 x 248 x 4.5mm	4 mounting holes	-20 ... +60 °C

KD/KL 18 | Capacitive Sensor



- Versatile High-Distance Detection Sensor (Time-Of-Flight Technology)
- Ideal for filling level measurements
 - Robust stainless steel housings
 - Optional N.O. or N.C. variants
 - Flush or non-flush design options

Product Code	Hysteresis	Operating Range Non-flush	Type of Connection	Material	Operating Voltage	Switching Frequency	IP Rating	Switching Output
682-510014	15 %	2 ... 15 mm	Plug, M12x1, 4-pin	Stainless steel VA	10 ... 30 V DC	100 Hz	IP67	PNP (N.O.)

Inductive Sensors



Standard inductive sensors are ideal for object detection in metal areas. They are short-circuit protected and operate without contact, making them wear-free and very resistant to dirt and contamination. The sensors are available in configurations from 3mm Ø to 80 × 80mm square dimensions.

The rugged and reliable inductive Global Sensors provide especially economical solutions. We can also delivery the broad range of these over 500 preferred types worldwide in the shortest possible time.

M8 Sensors – Stainless Steel



Product Code	BES013P	BES014A	BES01AU	BES001J
Size	M8	M8	M8	M8
Switching	PNP	PNP	PNP	PNP
Output	NO	NO	NO	NO
Connector	M8	M8	M8	M8
Wire	3	3	3	3
Mounting	Flush	Flush	Flush	Non-Flush
SN	2mm	2mm	2mm	4mm
Voltage	10–30V	10–30V	10–30V	10–30V
Hz	5000Hz	5000Hz	5000Hz	1500Hz
Temp.	-40–85°C	-40–85°C	-40–85°C	-25–70°C
IP	IP68	IP68	IP68	IP68
Length	30mm	40mm	55mm	60mm

M8 Inductive – Brass Nickel



Product Code	BES003C	BES003P	BES01ZW	BES0027
Size	M8	M8	M8	M8
Switching	PNP	PNP	PNP	PNP
Output	NO	NO	NO	NO
Connector	M8	M8	M8	M12
Wire	3	3	3	3
Mounting	Flush	Flush	Quasi-Flush	Flush
SN	1.5mm	2mm	4mm	1.5mm
Voltage	10–30V	10–30V	10–30V	12–30V
Hz	5000Hz	5000Hz	800Hz	1000Hz
Temp.	-25–70°C	-25–70°C	0–60°C	-25–70°C
IP	IP68	IP68	IP67	IP67
Length	60mm	60mm	59mm	65mm

M12 Inductive - Brass Nickel



Product Code	BES0068	BES00EF	BES00PY
Size	M12	M12	M12
Switching	PNP	PNP	PNP
Output	NO	NO	NO
Connector	M12	M12	M12
Wire	3	3	3
Mounting	Flush	Flush	Flush
SN	4mm	4mm	4mm
Voltage	10–30V	10–30V	10–30V
Hz	2500Hz	2500Hz	2500Hz
Temp.	-25–70°C	-25–70°C	-25–70°C
IP	IP68	IP68	IP68
Length	65mm	45mm	45mm

M18 Inductive – Brass Nickel



Product Code	BES0086	BES008L
Size	M18	M18
Switching	PNP	PNP
Output	NO	NO
Connector	M12	M12
Wire	3	3
Mounting	Flush	Flush
SN	5mm	8mm
Voltage	12–30V	10–30V
Hz	700Hz	1000Hz
Temp.	-25–70°C	-25–70°C
IP	IP68	IP67
Length	65mm	65mm

M30 Inductive – Brass Nickel



Product Code	BES00AF	BES00AH
Size	M30	M30
Switching	PNP	PNP
Output	NO	NO
Connector	M12	M12 / Plastic
Wire	3	3
Mounting	Flush	Flush
SN	15mm	15mm
Voltage	10–30V	10–30V
Hz	100Hz	100Hz
Temp.	-25–70°C	-25–70°C
IP	IP67	IP67
Length	65mm	65mm

Block Style



Product Code	BES01U2	BES04YL	BES01W2	BES03ZU	BES0217
Size	Block	Block	Block	Block	Block
Switching	PNP	PNP	PNP	PNP	PNP
Output	NO	NO	NO / NC	NO / NC	NO / NC
Connector	M8	CWC 0.2m M12	CWC 0.2m M12	CWC 1.5m M12	M12
Wire	3	3	4	4	4
Mounting	Flush	Flush	Flush	Flush	Flush
SN	2mm	2mm	7mm	7mm	20mm
Voltage	10–30V	10–30V	10–30V	10–30V	10–30V
Hz	3000Hz	5000Hz	150Hz	150Hz	50Hz
Temp.	-25–70°C	-25–70°C	-25–70°C	-25–70°C	-25–71°C
IP	IP67	IP67	IP67	IP67	IP68
Length	59 x 8 x 8mm	16 x 8 x 4.7mm	32 x 20 x 8mm	32 x 20 x 8mm	40 x 40 x 62mm

BES Inductive Sensors



Inductive sensors are essential for automation in industries like mechanical engineering, electronics, intralogistics, assembly, woodworking, and textile production. They detect metallic objects, operate without contact, and ensure high reliability.

Balluff's entry-level BES inductive sensors are designed for general factory use, offering a cost-effective solution for high-volume, price-sensitive applications like material handling and logistics.

Simple to mount with a clamp holder, the sensors feature a plastic housing with 360° LED indicators for switching status, power supply, and fault conditions (e.g., short circuits). This allows for quicker fault detection, reduced downtime, and improved system availability.



Product Codes	BES060N	BES060T	BES060R	BES060U	BES060P	BES060M
Dimension	M8 × 45mm	M8 × 65mm	M12 × 45mm	M12 × 65mm	M18 × 45mm	M18 × 65mm
Installation	Flush	Flush	Flush	Flush	Flush	Flush
Range	2mm	2mm	4mm	4mm	8mm	8mm
Switching Output	PNP NO	PNP NO	PNP NO	PNP NO	PNP NO	PNP NO
Switching Frequency	600 Hz	600 Hz	350 Hz	350 Hz	300 Hz	300 Hz
Housing Material	Nickel-plated die-cast zinc		Nickel-plated die-cast zinc		Nickel-plated die-cast zinc	
Material Sensing Surface	PBT	PBT	PBT	PBT	PBT	PBT
Connection	Connector, M8 male, 3-pin		Connector, M12 male, 3-pin		Connector, M12 male, 3-pin	
Operating Voltage U _b	10–30V DC	10–30V DC	10–30V DC	10–30V DC	10–30V DC	10–30V DC
Ambient Temp.	–25–70°C	–25–70°C	–25–70°C	–25–70°C	–25–70°C	–25–70°C
IP Rating	IP67	IP67	IP67	IP67	IP67	IP67
Approval/Conformity	CE, UKCA, cULus		CE, UKCA, cULus		CE, UKCA, cULus	

BES Inductive Sensors Accessories



Product Code	BAM045T	BAM045W	BAM045U
Description	Proximity sensor mount with positive stop		
Use	For M8 sensors, from sensor length 65 mm	For M12 sensors, from sensor length 65 mm	For M18 sensors, from sensor length 65 mm
Dimension	M14 × 50mm	M18 × 50mm	M24 × 50mm
Housing Material	PBT	PBT	PBT

D|9

Magnetic-Field Immune, Factor 1, Full Metal Inductive Sensors

BALLUFF



The use of a new technology means Balluff's Factor 1, full metal sensors in the M18 housing guarantee you robust functionality in especially harsh environments. With full stainless housings, they are outstanding for detecting changing objects (steel, aluminium, copper, brass, etc.) with no difference in switching distance and without reduction factor. They remain extremely reliable even in direct contact with the detection object since the sensing surface is designed for impacts, as well as mechanical loads and abrasive media.

Our Factor 1, full metal sensors are magnetic-field immune, meaning they are unaffected by strong electromagnetic fields such as those found in induction hardening or welding environments. With the optional ceramic coating, they also withstand weld splatter.

Magnetic Field Inductives

	Product Code	BES02JA	BES02JJ	BES02JU	BES048J
	Size	M18	M30	M30	Block
	Switching	PNP	PNP	PNP	PNP
	Output	NO	NO	NO	NO
	Connector	M12	M12	M12	CWC 0.2m M12
	Wire	3	3	3	4
	Mounting	Flush	Flush	Non-Flush	Flush
	SN	5mm	10mm	15mm	5mm
	Voltage	10–30V	10–30V	10–30V	10–30V
	Hz	500Hz	100Hz	100Hz	100Hz
	Temp.	-25–70°C	-25–70°C	-25–70°C	-25–70°C
	IP	IP67	IP67	IP67	IP67
	Length	65mm	65mm	65mm	30 x 20 x 8mm

Magnetic Field And Weld Immune Factor 1

	Product Code	BES05PP	BES05AM	BES02KM
	Size	M18	M18	M30
	Switching	PNP	PNP	PNP
	Output	NO	NO	NO
	Connector	M12	M12	M12
	Wire	3	3	3
	Mounting	Flush	Non-Flush	Flush
	SN	5mm	12mm	10mm
	Voltage	10–30V	10–30V	10–30V
	Hz	2500hZ	2000Hz	600Hz
	Temp.	-25–70°C	-40–85°C	-25–70°C
	IP	IP67	IP68 / 67	IP67
	Length	65mm	76mm	65mm

Positive End Stop Brackets

	Product Code	BAM00AK	BAM00E1	BAM00FW	BAM00J7
	Size	M8	M12	M18	M30
	Length	32mm and longer	30mm and longer	40mm and longer	36mm and longer

Photoelectrics Sensors

BALLUFF



Easy operation, fast installation, affordable price – the highlights of our photoelectric global sensors. The broad spectrum of diffuse sensors, retroreflective light sensors and through-beam sensors in various housing designs has a wide variety of applications.

Features

- Sound performance and reliable object detection
- Ideal for standard applications
- Cost-effective in every light type.

photoelectric Distance Sensors

	Product Code	BOD001Y	BOD001P	BOD001W
	Style	Block	Block	Block
	PNP/NPN	RS485 Analogue, voltage/Analogue, current 0.2...10 V/4...20 mA linear rising/falling 2x PNP/ NPN/push-pull	PNP/NPN + 4–20mA	PNP/NPN + 4–20mA
	NO / NC	NO / NC	Auto	NO / NC
	Wire	8 pin - M12	5-pin, Wire	5-pin, Wire
	Light	Laser	Laser	Laser
	Range	200mm–20 000mm	100–5000mm	200–10000mm
	Connector	M12	M12	M12
	Housing	Zinc, Die Casting	ABS	Zinc, Die Castin
	Frequency	1000Hz	250Hz	15Hz
	IP	65	67	67
	Temp.	-20–50°C	-40–50°C	-15–50°C
	Size	30 x 100.5 x 73.2mm	51 x 23 x 52.4mm	60 x 37 x 72.3mm

Diffuse Photoelectrics





Product Code	BOS00K1	BOS029M	BOS01JK	BOS01L3
Style	M18	Square	Block, with Background Suppression	Block, with Background Suppression
Size	81.5mm	10.7 x 43.5 x 19.5 mm	10.8 x 43.5 x 19.5mm	12 x 41.5 x 21.6mm
PNP/NPN	PNP	PNP	PNP	PNP
NO / NC	NO / NC	NO / NC	NO / NC	NO / NC
Wire	4-pin, 4 wire	4-pin, 3 wire	4-pin, 4 wire	4-pin, 4 wire
Light	LED	LED	LED, Red Light	LED, Red Light
Range	0–700mm	20–350mm	20–300mm	3–400mm
Connector	M12	M8	M8	M8
Housing	PBT	PBT	PBT, PC	PBS
Frequency	1000Hz	100Hz	500Hz	500Hz
IP	67	67	67	67
Temp.	-25–57°C	-35–55°C	-20–55°C	-20–55°C

Product Code	BOS02AF	BOS00JW	BOS00JZ
Style	Square	M18 , with Background Suppression	M18
Size	10.7 x 43.5 x 19.5mm	Ø 18 x 71.5 mm	81.5mm
PNP/NPN	PNP	PNP	PNP
NO / NC	NO	NO / NC	NO/NC
Wire	4-pin, 3 wire	4-pin, 4 wire	4-pin, 4 wire
Light	LED infrared	LED	LED
Range	0–1000mm	5–100mm	0–400mm
Connector	M8	M12	M12
Housing	PBT	PBT	PBT
Frequency	1000Hz	1000Hz	1000Hz
IP	67	67	67
Temp.	-30–55°C	-25–55°C	-25–56°C

Retro-reflective Photoelectrics

	Product Code	BOS00K3	BOS00K5	BOS02A3	BOS01MJ
	Style	M18	M18	Square	Block
	Size	81.5mm	71.5mm	10.7 x 43.5 x 19.5mm	12 x 41.5 x 21.6mm
	PNP/NPN	PNP	PNP	PNP	PNP
	NO / NC	NO / NC	NO / NC	NO / NC	NO / NC
	Wire	4-pin, 4 wire	4-pin, 4 wire	4-pin, 3 wire	4-pin, 4 wire
	Light	LED	LED	LED, red light	LED
	Range	0–4.5m	0–5m	0–5m	0–6m
	Connector	M12	M12	M8	M8
	Housing	PBT	PBT	PBT	ABS
	Frequency	1000Hz	1000Hz	1000Hz	1000Hz
	IP	67	67	67	69K
	Temp.	-25–55°C	-25–55°C	-30–55°C	-20–60°C

Through Beam Photoelectrics

	Product Code	BOS0212	BOS01JP	BOS01CK	BOS01CN
	Style	Block	Emitter and Receiver	Receiver	Emitter
	Size	7.7 x 26.8 x 13.5mm	10.8 x 43.5 x 19.5mm	28.5 x 80.5 x 62mm	28.5 x 80.5 x 62mm
	PNP/NPN	PNP	PNP	PNP	-
	NO / NC	NO	NO / NC	NO / NC	-
	Wire	4-pin, 3 wire	4-pin, 4 wire	4-pin, 4 wire	4-pin, 2 wire
	Light	LED	Laser, Red Light	LED	LED
	Range	0–2m	0–30m	0–60m	0–60m
	Connector	CWC 0.2m M8	M8	M12	M12
	Housing	PBT	ABS	ABS	ABS
	Frequency	800Hz	150Hz	400Hz	-
	IP	67	67	67	67
	Temp.	-25–55°C	-20–55°C	-5–55°C	-5–55°C

Photoelectrics Reflectors

Product Code	BAM00UK	BAM00UY	BAM00WL
Style	Round	Square	Square
Size	84 x 7.3mm	51 x 61 x 7.5mm	51 x 61 x 8mm



Reed Switches



Our magnetic field sensors for T-slots detect the piston position without contact through the cylinder walls.

Features
Can be mounted directly into the slot, firm grip, can be mounted flush for space-critical applications, can be used for cylinders and grippers with strong or weak magnets, bright LEDs. Extremely short configurations as well as sensors with metal housings or magnetic field-sensitive electronics are available.



Product Code	BMF000T	BMF008P	BMF0078
Style	M8	T-SLOT	T-Slot
Size	30.5mm	29 x 6.2 x 4.4mm	29 x 6.2 x 4.4 mm
PNP/NPN	PNP	Polarised	Polarised
NO / NC	NO	NO	NO
Wire	3-pin, 3 wire	2 Wire	2 Wire
Voltage	10–30V	4–30V	4–30V AC / DC
Range	>20mm	-	-
Connector	5m PUR cable	3m PVC cable	CWC 200mm PUR - M8 3-pin
Housing	Brass	LCP	LCP
Frequency	1000Hz	1000Hz	1000Hz
IP	67	65	65
Temp.	-25–85°C	-20–70°C	-20–70°C

Capacitive Sensors



Product Code	BCS00PJ	BCS00M8	BCS00NA
Size	M12	M18	M30
Switching	PNP	PNP	PNP
Output	NO	NO	NO
Connector	M12	M12	M12
Wire	4-pin	4-pin	3-pin
Mounting	Flush	Flush	Flush
SN	1–4mm	2–8mm	2–15mm
Voltage	10–30V DC	10–30V DC	10–30V DC
Hz	100	100	100
Temp.	-25–+85°C	-25–+85°C	-25–+85°C
IP	67	67	67
Length	75mm	88.5mm	79mm

Ultrasonic Sensors



	Product Code	BUS004T
	Size	M18
	Switching	0–10V
	Connector	5-pin
	Wire	3 Wire
	Mounting	Flush
	SN	65–600mm
	Voltage	10–30V DC
	Temp.	-25–70°C
	IP	67
	Length	52.5mm

Transducers

	Product Code	BTL0704	BTL0HRE	BTL0HRF	BTL0HRH	BTL0HRJ	BTL0J5U
	Mounting	Threaded Flange M18 x 1.5	Threaded Flange M18 x 1.5	Threaded Flange M18 x 1.5	Threaded Flange M18 x 1.5	Threaded Flange M18 x 1.5	Threaded Flange M18 x 1.5
	Housing	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
	Magnets	1	1	1	1	2	1
	Analogue	20–4mA	4–20mA and 20–4mA	4–20mA and 20–4mA	4–20mA and 20–4mA	4–20mA and 20–4mA	4–20mA & 20–4mA
	Range	75mm	35mm	50mm	75mm	100mm	60mm
	Sample Frequency	4000Hz	4000Hz	4000Hz	4000Hz	4000Hz	4000Hz
	Temp.	-40–85°C	-40–85°C	-40–85°C	-40–85°C	-40–85°C	-40–85°C
	Pressure	600 Bar	600 Bar	600 Bar	600 Bar	600 Bar	600 Bar
	IP	68	68	68	68	68	68
	Connection	5m PUR	5m PUR	5m PUR	5m PUR	5m PUR	5m PUR

Pressure Transmitters

	Product Code	BSP00Y3	BSP00Y4	BSP00Y6	BSP00YC
	Range	0 to 5 Bar	0 to 10 Bar	0 to 20 Bar	0 to 250 Bar
	Output	0–10V / 4–20mA 2x PNP NO/NC	0–10V / 4–20mA 2x PNP NO/NC	0–10V / 4–20mA 2x PNP NO/NC	0–10V / 4–20mA 2x PNP NO/NC
	Process Connection	G 1/4" Stainless	G 1/4" Stainless	G 1/4" Stainless	G 1/4" Stainless
	A. Temp.	-25–85°C	-25–85°C	-25–85°C	-25–85°C
	M. Temp.	-25–125°C	-25–125°C	-25–125°C	-25–125°C
	IP	67	67	67	67
	Connector	M12	M12	M12	M12
	IO-LINK	Yes	Yes	Yes	Yes

Next-Generation Pressure Sensors with Display



Balluff pressure sensors with display ensure precise monitoring of hydraulic circuit pressure in metalworking machines, supporting tool and workpiece clamping. With IP67 or optional IP69K protection, they offer configurable outputs, IO-Link control, and comprehensive diagnostics for condition monitoring. These features enhance flexibility, detect pressure peaks, and support high machine uptime.

BSP Pressure Senors with Display

 BSP00Y* Internal Thread	Pressure Ranges	Product Code		Product Code
	0...0.1 Bar	-	-	BSP0102
	0...0.5 Bar	-	-	BSP0103
	0...1 Bar	-	-	BSP0100
	0...2 Bar	-	-	BSP0101
	-1...2 Bar	BSP00YR	BSP00ZH	-
	0...10 Bar	BSP00Y4	BSP00Z6	-
	0...20 Bar	BSP00Y6	BSP00Z7	-
	0...100 Bar	BSP00Y8	BSP00Z9	-
	0...250 Bar	BSP00YC	BSP00ZC	-
 BSP00Z* External Thread, Front-flush	0...400 Bar	BSP00YH	BSP00ZE	-
	0...600 Bar	BSP00YK	BSP00ZF	-
	Electrical Specifications			
 BSP01* TriClamp, Front-flush	Operating Voltage	18–30V DC	18–30V DC	18–30V DC
	Output 1	Selectable (PNP / NPN / IO-Link)		
	Output 2	Selectable (PNP / NPN / 4...20 mA / 0...10 V)		
	Performance			
	Accuracy	≤ ±0.5 % FSO BFSL	≤ ±0.5 % FSO BFSL	≤ ±0.5 % FSO BFSL
	Temperature Range	–40–+125°C	–40–+125°C	–10–+125°C
	Mechanical Specifications			
	Process Connection	G½" internal thread	G½" external thread, front-flush	1½" TriClamp, front-flush
	Transmission Medium	-	Silicone oil	Food-grade oil
	Process Connection Material	Stainless steel 1.4301	Stainless steel 1.4404	Stainless steel 1.4404
	Protection & Connection			
	Protection Degree	IP67	IP67	IP67 / IP69K
	Electrical Connection	M12 male, 4-pole	M12 male, 4-pole	M12 male, 4-pole

Accessories for BSP Pressure Senors with Display

				
Product Code	BAM01U0	BAM01KP	BAM01KT	BAM01UJ
Description	Mounting clamp, 15 × 46 × 64 mm, Anodized aluminum	Process adapters G¼" (DIN 3852) to G¼" (DIN 3852), Stainless steel 1.4301	Process adapters G¼" (DIN 3852) to NPT¼" (DIN 3852), Stainless steel 1.4301	Process adapters G¼" (DIN 3852) to G½" (DIN 3852), Stainless steel 1.4301

Pressure transmitter BSP with IO-Link interface



The BSP pressure transmitter with IO-Link ensures continuous, reliable pressure measurement with minimal downtime. Its compact design features IP67 and IP69K protection, ideal for harsh environments. TOF technology enables stable measurements on varying surfaces. Operating from -25°C to +80°C, it is suited for factory automation. The IO-Link interface supports seamless PLC communication and diagnostics, whilst SIO mode allows customisable pressure switch functionality.

Technical Information

Product Code	BSP00PM	BSP00T8	BSP00PP	BSP00PR	BSP00PU	BSP00PY
Pressure Ranges	1-2 Bar	5 Bar	20 Bar	50 Bar	250 Bar	600 Bar
Supply Voltage	12–32V	12–32V	12–32V	12–32 V	12–32V	12–32V
Connection Type	Plug	Plug	Plug	Plug	Plug	Plug
IO-Link	1.1	1.1	1.1	1.1	1.1	1.1
Connector Type	M12x1	M12x1	M12x1	M12x1	M12x1	M12x1
Housing Material	Stainless steel 1.4301	Stainless steel 1.4301	Stainless steel 1.4301	Stainless steel 1.4301	Stainless steel 1.4301	Stainless steel 1.4301
Enclosure Type	IP67	IP67	IP67	IP67	IP67	IP67

Condition Monitoring Sensor with Data Pre-processing



Balluff's multi-functional condition monitoring sensor prevents unscheduled stops by automating manual inspections and enabling smart manufacturing for IIoT. It detects vibration, temperature, humidity, and pressure, transmitting data through IO-Link and reporting its status, including operating hours and start cycles.

Easily parameterised via IO-Link, it allows customisable, cyclic data transmission, with additional data available on request. Automated limit monitoring provides pre- and main alarm notifications, alerting to potential issues. This sensor boosts equipment efficiency and system reliability.

1 Vibration 2 Temperature 3 Relative Humidity 4 Ambient Pressure



Product Code	BCM0002	BCM0001
Vibration, Frequency Range	2...1800 Hz (±10 %) 2...2500 Hz (±3 dB)	2...1800 Hz (±10 %) 2...2500 Hz (±3 dB)
Vibration Measuring Axes	3	3
Vibration Measuring Range	-16...16 g	-16...16 g
Contact Temp.measuring Range	-25...+70 °C	-25...+70 °C
Relative Humidity, Measuring Range	5...95 %RH	-
Ambient Pressure, Measuring Range	300...1100 hPa	-
Rated Operating Voltage Ue	24V DC	24V DC
Interface	IO-Link 1.1	IO-Link 1.1
Connection	Cable with connector, M12x1-Male, 3-pin, 1.5 m, PUR	Cable with connector, M12x1-Male, 3-pin, 1.5 m, PUR
Housing Material	1.4404 stainless steel, Membrane: ePTFE with nylon fleece	1.4404 stainless steel
IP Rating	IP67	IP67, IP68, IP69K
Ambient Temp.	-25...70 °C	-25...70 °C

Accessory for Condition Monitoring Sensor



Product Code	Description
BAM03FA	Magnetic holder, material aluminium, 32 x 20 x 12.5 mm, mounting with M3 screws.

BCM Condition Monitoring Sensors Generation 2



Balluff's BCM condition monitoring sensors reduce downtime by automating inspections and providing real-time data for optimised production.

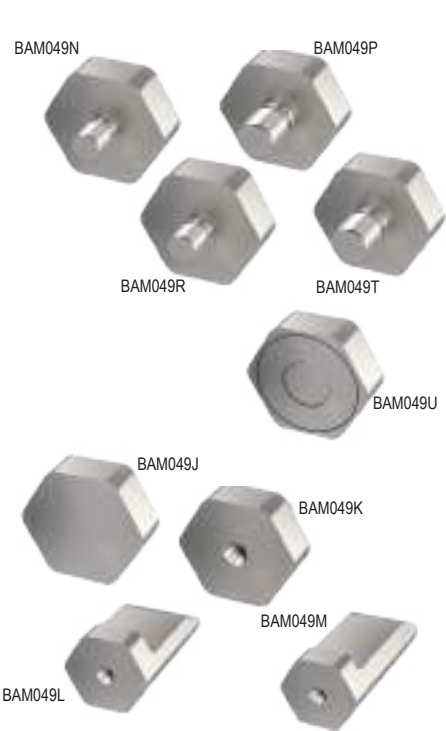
The latest version features a smart IO-Link interface, advanced data processing, and enhanced frequency analysis (FFT) for early, precise detection of system changes. Its one-screw mount and compact design ensure quick installation, even on curved surfaces.

With improved performance, smarter algorithms, and easier installation, the BCM Generation 2 sets a new standard for condition monitoring.



Product Code	BCM0003	BCM0004
Vibration, Frequency Range	2...4500 Hz(±10 %) 2...6000Hz (3 dB)	2...4500 Hz (±10 %) 2...6000 Hz (3dB)
Vibration Measuring Axes	3	3
Vibration Measuring Range	-16...16 g	-16...16 g
Rated Operating Voltage	24V DC	24V DC
Interface	IO-Link 1.1.3, COM3 (230.4 kBaud)	IO-Link 1.1.3, COM3 (230.4 kBaud)
Connection	1.5 m PUR cable with M12 male, 4-pole	1.5 m PUR cable with M12 male, 4-pole
Housing Material	1.4404 stainless steel, Membrane: ePTFE with nylon fleece	1.4404 stainless steel
IP Rating	IP67, IP68, IP69K	IP67, IP68, IP69K
Ambient Temp.	-40--+80°C	-40--+80°C

Accessories for BCM Condition Monitoring Sensors Generation 2



Screw-In Adapter Mounting Accessories

Product Code	Description
BAM049N	Screw mounting in M6 thread
BAM049P	Screw mounting in M8 thread
BAM049R	Screw mounting in M10 thread
BAM049T	Screw mounting in M12 thread

Magnetic Holder

Product Code	Description
BAM049U	Magnetic mounting on flat surfaces

Adhesive Adapter Mounting Accessories

Product Code	Description
BAM049J	Adhesive mounting on flat surfaces
BAM049K	Adhesive mounting on small cooling fins
BAM049L	Adhesive mounting on medium-sized cooling fins
BAM049M	Adhesive mounting on large cooling fins

Condition Monitoring Toolkit (CMTK)



Many existing plants lack the prerequisites for condition monitoring, leading to unplanned downtime and high costs. Retrofitting has often been complex and expensive. The CMTK system offers a cost-effective, easy-to-implement solution, providing real-time insights into machine conditions for early issue detection. It is IIoT-capable with standardised interfaces and adaptable software.

CMTK – simple, flexible, effective
The CMTK consists of three components: software, base unit and up to four arbitrary IO-Link sensors.

- Features**
- Universal retrofit solution for machine and process monitoring
 - High flexibility with support for up to four IO-Link sensors
 - Plug-and-play commissioning with real-time data visualisation
 - Customisable warning messages when limit values are exceeded
 - IIoT integration via standardised interfaces such as MQTT
 - Software adaptability through Docker technology

Condition Monitoring

	BAV002N	BNI00H7																								
Software The base unit's integrated software enables automated data visualisation and evaluation on-site, featuring: • Web browser dashboard access • Plug-and-play setup with automatic IO-Link sensor detection and configuration • REST API for additional configurations • IIoT compatibility via MQTT • Customisation through Docker technology • Automated alerts via e-mail or SmartLight	Condition Monitoring Toolkit (Base unit and software) <table><tr><td>Product Code</td><td>BAV002N</td></tr><tr><td>Working Memory</td><td>2 GB RAM</td></tr><tr><td>Connection Slots</td><td>2x LAN: RJ45-Female, 8-pin 4x IO-Link: M8x1-Female, 4-pin, A-coded PWR: Phoenix MC1.5/3-STF-3.81 USB: USB 2.0 Standard-A</td></tr><tr><td>Dimension</td><td>101 x 126 x 50mm</td></tr><tr><td>Data Storage</td><td>8GB EMMC</td></tr><tr><td>Processor</td><td>1.8GHz / 400MHz</td></tr></table>	Product Code	BAV002N	Working Memory	2 GB RAM	Connection Slots	2x LAN: RJ45-Female, 8-pin 4x IO-Link: M8x1-Female, 4-pin, A-coded PWR: Phoenix MC1.5/3-STF-3.81 USB: USB 2.0 Standard-A	Dimension	101 x 126 x 50mm	Data Storage	8GB EMMC	Processor	1.8GHz / 400MHz	Network blocks for Ethernet/IP <table><tr><td>Product Code</td><td>BNI00H7</td></tr><tr><td>Interface</td><td>Ethernet/IP, REST API (IIoT)</td></tr><tr><td>Power Handling</td><td>Max output current 4 A, sensor current sum 16 A, actuator current sum 16 A</td></tr><tr><td>Digital I/O</td><td>16x PNP inputs (Type 3) and 16x PNP outputs</td></tr><tr><td>IO-Link Capability</td><td>8x IO-Link ports (Type A)</td></tr><tr><td>Durability</td><td>IP67 rating, operating temperature range -5 to 70 °C</td></tr></table>	Product Code	BNI00H7	Interface	Ethernet/IP, REST API (IIoT)	Power Handling	Max output current 4 A, sensor current sum 16 A, actuator current sum 16 A	Digital I/O	16x PNP inputs (Type 3) and 16x PNP outputs	IO-Link Capability	8x IO-Link ports (Type A)	Durability	IP67 rating, operating temperature range -5 to 70 °C
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Durability	IP67 rating, operating temperature range -5 to 70 °C																									

Sensors For RPM Input

 BOS02EM  BOS01NF	Product Code	BES05KR	BOS01NF	BOS02EM	BOS02F8
	Measuring Principle	Inductive sensor	Diffuse sensor, laser red light	Contrast sensor	Diffuse sensor, LED blue light
	Target	All metals	Material-independent	Material-independent	Material-independent
	Range	≤ 8 mm	≤ 250 mm	≤ 250 mm	≤ 200 mm
	Measuring Rate	2000Hz	1000Hz	4000Hz	700Hz

Connectivity For RPM Input

	Product Code	BCC0K6M	BCC0K6N	BCC0K6P	BCC0K6R
	Connection 1	M12 male, straight, 3-pin, A-coded			
	Connection 2	M12 female, straight, 5-pin, A-coded			
	Connection 3	M12 female, straight, 5-pin, A-coded			
	Cable	0.3 m and 0.6 m, PUR black, drag chain compatible			

Emc Filters



Corrupted signals, especially in industrial surroundings, can lead to faults in operations, the disruption of a production line, or the shutdown of machinery.

Product Code	Nominal Current	Supply Voltage	Dimension (H x W x D)	Phase
10415	10A	Max. 250V AC, 300V DC	107 x 65 x 39mm	1 Phase
10416	20A	Max. 250V AC, 300V DC	107 x 65 x 39mm	1 Phase
10512	10A	4x440VAC	107 x 65 x 39mm	3 Phase+N
10513	20A	4x440VAC	107 x 65 x 39mm	3 Phase+N

Eco Rail 2 – Single Phase 1.3–20A 24V DC | Power Supplies



Product Code	Input Voltage incl. Tolerance	Output Voltage	Amps	Dimension (H x W x D)
85131	90–264V AC	30W 24V DC	1.3A	125 x 50 x 70mm
85132	90–264V AC	60W 24V DC	2.5A	125 x 50 x 80mm
85133	90–132V AC or 173–264V AC	120W 24V DC	5A	125 x 50 x 125mm
85135		240W 24V DC	10A	125 x 72 x 125mm
85137		480W 24V DC	20A	125 x 105 x 127mm

Emparro – Power Supply Premium | Power Supplies



Emparro Premium

Product Code	Input Voltage	Output Voltage	Amps	Dimension (H x W x D)	Phase
85440	100-240V AC	24-28V DC	5A	132 x 50 x 138mm	1-Phase
85441	100-240V AC	24-28V DC	10A	123 x 65 x 138mm	1-Phase
85442	100-240V AC	24-28V DC	20A	123 x 85 x 138mm	1-Phase

Emparro Advanced

Product Code	Input Voltage	Output Voltage	Amps	Dimension (H x W x D)	Phase	Emparro Basic
9000-17332-0921110	3X 342-575V AC	22.5 - 29V/5A DC	5A	129 x 55 x 138.2mm	3-Phase	85690
9000-17332-1221110	3X 342-575V AC	22.5 - 29V/10A DC	10A	129 x 55 x 138.2mm	3-Phase	85691
9000-17332-1421110	3X 342-575V AC	22.5 - 29V/20A DC	20A	135.7 x 65 x 159.3mm	3-Phase	85692
9000-17332-1621110	3X 342-575V AC	22.5 - 29V/40A DC	40A	129 x 100 x 171.9mm	3-Phase	85693
85449	90-265V AC / 90-370V DC	24V DC	10A	Protection: IP67		

Capacitor Based Power Buffering and MB Redundancy



Product Code	85394
Input Voltage	23–30V DC (SELV / PELV)
Output Voltage	24V DC, 22–28V DC
Current Limit	26A
Buffering Time	0.2 sec. / 20A / 24V DC, 4 sec. / 1A / 24V DC
Dimension (H x W x D x TA)	115 x 62 x 145 x 20mm



Product Code	85460
Input Voltage	20.4–26.4V DC
Output Voltage	23VDC
Current Limit	-
Buffering Time	7 sec. (3A) / 21 sec. (1A)
Dimension (H x W x D)	100 x 60 x 125mm



Product Code	85496
Input Voltage	24V DC
Input Current	2x 20A
Total Current	max. 40A
Output Voltage	24V DC
Dimension (H x W x D)	90 x 70 x 80mm



Product Code	85458
Input Voltage	24V DC
Output Voltage	20A
Current Limit	20A
Buffering Time	1.0 sec / 20 A
Dimension (H x W x D)	123 x 65 138mm



Product Code	85464
Input Voltage	24V DC
Output Voltage	40A
Current Limit	40A
Buffering Time	min. 0,3 sec /40 A, min. 1,2 sec /10 A, min. 2,4 sec /5 A, min. 8 sec /1,5 A
Dimension (H x W x D)	123 x 66.5 x 167mm

Miro 6.2

- 6.2mm wide housing
- Screw Terminal
- Integrated LED and Label Plate

Relays and optocouplers are essential in control systems and process automation. They are used to amplify, modify, isolate and/or transfer signals to other parts of the automation process while at the same time reducing the danger of disruption caused by interference.

Relays



Product Code	Output Relay	Input Voltage	Max. Switching Voltage	Connection
6652000	1 C/O contact	24V DC	250V AC/DC 6A	Screw Terminal
3000-16013-310020	1 C/O contact	24V AC/DC	250V AC 6A/30V DC	Screw Terminal
3000-16013-310030	1 N/O 1 C/O contact	250V AC/DC	250V AC/30V DC	Screw Terminal

Optocoupler – Solid State Switching



Product Code	Type	Input Voltage	Max. Switching Voltage
6652500	5A	24V DC	5–48V DC
6652501	2A	24V DC	5–48V DC
6652502	2A	5V DC	5–48V DC
3000-32512-2100040	6A	24V DC	3–30V DC

Multi – Function Timer



Product Code	52350
Time Range	1–300s
Max. Current / Min. Load	6A / 10mA
Approvals	UL + CSA
Voltage	24V DC

Mico – 24V Circuit Monitoring & Protection

Combine your power supplies with MICO, the intelligent power distribution system. Monitor & protect against overload & short circuit Alert Others – signal provided for condition changes Easy Reset-signal contact for remote reset possibilities.

Mico Basic



Product Code	Nominal Input Voltage	Channels	Current Adjustment	Dimension (H x W x D)
9000-41068-0200000	24V DC - Max. 40A	8 current selectable	2A	90 x 70 x 80mm
9000-41068-0400000	24V DC - Max. 40A	8 current selectable	4A	90 x 70 x 80mm
9000-41068-0600000	24V DC - Max. 40A	8 current selectable	6A	90 x 70 x 80mm
9000-41064-0200000	24V DC - Max. 40A	4 current selectable	2A	90 x 36 x 80mm
9000-41064-0400000	24V DC - Max. 40A	4 current selectable	4A	90 x 36 x 80mm
9000-41064-0600000	24V DC - Max. 40A	4 current selectable	6A	90 x 36 x 80mm
9000-41078-0600001	24V DC - Max. 40A	8 current selectable	6A	90 x 70 x 80mm

Mico Classic



Product Code	Nominal Input Voltage	Channels	Current Adjustment	Dimension (H x W x D)
9000-41042-0100400	24V DC - Max. 40A	2 current selectable	1A, 2A, 3A, 4A	90 x 70 x 80mm
9000-41042-0100600	24V DC - Min. 10A, Max. 40A	2 current selectable	1A, 2A, 4A, 6A	90 x 36 x 80mm
9000-41034-0100600	24V DC - Min. 10A, Max. 40A	4 current selectable	1A, 2A, 4A, 6A	90 x 70 x 80mm
9000-41034-0401000	24V DC - Min. 20A, Max. 40A	4 current selectable	4A, 6A, 8A, 10A	90 x 70 x 80mm
9000-41034-0100400	24V DC - Max. 40A	4 current selectable	1A, 2A, 3A, 4A	90 x 70 x 80mm
9000-41034-0100600	24V DC - Max. 40A	4 current selectable	1A, 2A, 4A, 6A	90 x 70 x 80mm
9000-41034-0401000	24V DC - Max. 40A	4 current selectable	4A, 6A, 8A, 10A	90 x 70 x 80mm
9000-41042-0401000	24V DC - Max. 40A	2 current selectable	4A, 6A, 8A, 10A	90 x 36 x 80mm



Mico Pro

 9000-41190-0000001	Product Code	Nominal Input Voltage	Channels	Current Adjustment	Dimension (H x W x D)
	9000-41190-0000001	24V DC - Max. 40A	-	-	130 x 24 x 114mm
	9000-41091-0101000	24V DC - Max. 40A	1 current selectable	1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, 9A, 10A	130 x 8 x 114mm
	9000-41092-0101000	24V DC - Max. 40A	2 current selectable	1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, 9A, 10A	130 x 12 x 114mm
	9000-41094-0101000	24V DC - Max. 40A	4 current selectable	1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, 9A, 10A	130 x 24 x 114mm
	9000-41011-0400000	24V DC - Max. 40A	1 current selectable	4A	130 x 8 x 114mm
 9000-41000-0000010	9000-41000-0000212	24V DC - Max. 20A	1 channel (x 11)	-	130 x 24 x 114mm
Accessories					
 9000-41000-0000002	Product Code	Description			
	9000-41000-0000010	Mico Pro heavy duty side cover set (Cover for right and left side)			
	9000-41000-0000002	Mico Pro endless plug-in link 1x blue 1x red (Max. 40A, 500mm length)			

Mico, Mico+, Mico Fuse

	Product Code	Model	Nom. Input Voltage	Channels	Current Adjustment	Dimension (H x W x D)
	9000-41084-0100600	MICO+	24V DC - Max. 40A	4 current selectable	1A, 2A, 4A, 6A	90 x 70 x 80mm
	9000-41084-0401000	MICO+	24V DC	4 current selectable	4A, 6A, 8A, 10A	90 x 70 x 80mm
	9000-41078-0600001	MICO Fuse	24V DC	8 current selectable	6A	90 x 70 x 80mm
Accessories						
 9000-41034-0000002	Product Code	Model	Description			
	9000-41034-0000002	MICO	MICO bridging set (1 set)			

XELITY IP20 Managed Gigabit Switches

Switches are essential network components, reading and forwarding data to the correct ports. Murrelektronik's IP20 Managed Switches enable Ethernet devices to communicate, supporting star or tree topologies while also handling error analysis and diagnostics.

With ProfiNet connectivity and TIA Portal integration (via GSDML file), installation is simplified. Advanced Gigabit technology ensures future-ready data handling. Available with or without ProfiNet, these switches support TCP/IP and fieldbus integration for industrial automation.

					
4 Port Switch		6 Port Switch		8 Port Switch	
Product Code	Description	Product Code	Description	Product Code	Description
58820	Managed 4 Port Switch	58822	Managed 6 Port Switch	58824	Managed 8 Port Switch
58821	Managed 4 Port Switch with ProfiNet	58823	Managed 6 Port Switch with ProfiNet	58825	Managed 8 Port Switch with ProfiNet

Xelity Unmanaged Ethernet Switch



These switches are designed to work in industrial environments that require compliance with UL, CE, FCC & RoHS Standards. This unmanaged Ethernet switch provides the switching needed to connect Ethernet-based devices to distributed systems and to incorporate Ethernet-based devices and industrial protocols.

Product Code	Number of Ports	Transfer Rate	Supply Voltage	Nominal Supply Voltage	Dimension (H x W x D)
58810	4x RJ45	0-100 Mbit	9.5–31.5V DC	24V DC	90 x 45 x 78mm
58811	6x RJ45	0-100 Mbit	9.5–31.5V DC	24V DC	140 x 30 x 85.1mm
58812	8x RJ45	0-100 Mbit	9.5–31.5V DC	24V DC	90 x 45 x 78mm
58813	8x RJ45	1000 Mbit	9–30V DC	24V DC	140 x 30 x 85.1mm
58814	8x RJ45	1000 Mbit	9–30V DC	24V DC	140 x 30 x 85.1mm
58815	8x RJ45	10-1000 Mbit	9–30V DC	24V DC	105 x 41.6 x 85.1mm
58900	8x RJ45	10-1000 Mbit	9–36V DC	22.5V DC	105 x 42 x 38.5mm
58930	4x XD1	-	9–45V DC	24V DC	95 x 55 x 32mm
58931	8x XD1	1000 Mbit	9–45V DC	24V DC	145 x 55 x 32mm
58184	-	1000 Mbit	9.5–31.5V DC	24V DC	105 x 60 x 40mm

RJ45 Professional | Field Wireable Connectors



Product Code	Type
7000-74001-0000000	Straight 4-pole Profinet / Ethernet, IDC
7000-74011-0000000	Straight 8-pole Gigabit, IDC
7000-74021-0000000	90° (4 in 1) 4-pole Profinet / Ethernet, IDC
7000-74031-0000000	90° (4 in 1) 8-pole Gigabit, IDC
7000-74071-0000000	RJ45, Heavy Duty male 0° 8-pole Profinet, Straight
7000-74075-0000000	RJ45, Heavy Duty male 0° 8-pole Ethernet, Straight
7000-74091-0000000	RJ45, Heavy Duty male 90° 8-pole Profinet
7000-74095-0000000	RJ45, Heavy Duty male 90° 8-pole Ethernet

RJ45 & USB Panel Pass-Through



Product Code	Style
4000-73000-0010000	RJ45 (female/female), CAT 5e, panel mount, pass through, 22mm
4000-73000-0150000	USB 3.0 Female (form A) cable extension, pass through, 0.6m
7000-44671-0000000	RJ45/M12 receptacle straight, D coded, 4-pole
7000-44681-0000000	RJ45/M12 receptacle 90°, D coded, 4-pole
7000-44611-0000000	M12/M12 4-pole, D coded, gender changer, female to female

Modlink MSDD – Front Panel Interface



Product Code	Style	Width
4000-68512-0000001	Single Transparent Frame	66mm
4000-68522-0000001	Double Transparent Frame	131mm
4000-68000-3320000	South African 15A Power Socket	66mm
4000-68000-0010000	German Power Socket	66mm
4000-68000-1240000	Data – 1x RJ45+ 1x USB +1x SUB-D9 Male & 1x SUB-D9 Female	66mm

Distribution Boxes Exact12 | 4-Port



Distribution Boxes (no caps)		Cap Only for Home Run Cable (Spring Clamp)	
Product Code	Port	Product Code	Signals
8000-84400-0000000	M12 female 4-pole	8000-88549-0000000	1 Signal
8000-84500-0000000	M12 female 5-pole	8000-88549-0000000	2 Signal

Distribution Boxes Exact12 | 8-Port



Distribution Boxes (no caps)		Cap Only for Home Run Cable (Spring Clamp)		Distribution Boxes PNP With Cap
Product Code	Port	Product Code	Signals	Product Code
8000-88400-0000000	M12 female 4-pole	8000-88549-0000000	1 Signal	8000-88450-0000000
8000-88500-0000000	M12 female 5-pole	8000-88549-0000000	2 Signal	8000-88550-0000000
-	-	-	-	8000-88540-0000000

Distribution Boxes EXACT 8 | Housing



 000-80010-3841000	Product Code	Type	Port	Signals	Description
	8000-80010-3841000	10-port	M8 female, 3-pole	1 Signal	Exact8, 10xM8, molded homerun cable, 10m PUR
	8000-84070-0000000	8-port	M12 female, 8-pole	1 Signal	Exact8, 4xM8, 3-pol, pluggable M12 homerum port - 8-pole -> compatible M12: 7000-17041-292xxxx (PUR)
 8000-88060-0000000	8000-86070-0000000	8-port	M12 female, 8-pole	1 Signal	Exact8, 6xM8, 3-pol, pluggable M12 homerum port - 8-pole -> compatible M12: 7000-17041-292xxxx (PUR)
	8000-88060-0000000	8-port		1 Signal	Exact8, 8xM8, 3-pol, pluggable M12 homerum port - 12-pole -> compatible M12: 7000-19041-301xxxx (PUR)
	8000-80060-0000000	10-port		1 Signal	Exact8, 10xM8, 3-pol, pluggable M12 homerum port - 12-pole -> compatible M12: 7000-19041-301xxxx (PUR)
	7000-19342-4460500		M12 female		A-coded, 5m, homerun cable only, PVC 3x2x0.25+6x0.25 shielded bk UL/CSA
	7000-19342-4461000		M12 female		A-coded, 10m, homerun cable only, PVC 3x2x-0.25+6x0.25 shielded bk UL/CSA

M12 Port Plug

	Product Code	Type
	58627	Hex Nut

M8 Port Plug

	Product Code	Type
	3858627	Hex Nut

Active Field I/O Modules (IP20) CUBE 20

	IP 20 Cabinet I/O Modules				
	Product Code	Operating Voltage	Current Consumption	Input Type	Description
	56005	24V DC	Max. 150 mA	PNP	Cube20 BN-E/IP DI8
	56006	24V DC	Max. 150 mA	PNP	Cube20 BN-PNIO DI8
	56168	24V DC	Max. 25 mA	PNP	Cube20 DI16 DO16
	56112	24V DC	Max. 25 mA	PNP	Cube20 DI32
	56118	24V DC	Max. 25 mA	PNP	Cube20 DO32
	56200	24V DC	Max. 25 mA	PNP	Cube20 AI4 U/I
	56220	24V DC	Max. 25 mA	PNP	Cube20 AO4 U/I
	56109	30V DC	-	-	Potential terminal block brown/blue

	IP 67 Active Field I/O Modules				
	Product Code	Operating Voltage	Total Current	Input Type	Description
	55170	24V DC	16 A	PNP	Impact67 Profinet DIO16 M12L 5P
	54630	24V DC	16 A	PNP	IMPACT67 Pro ProfiNet DIO8 IOL8 M12L 5P
	54631	24V DC	16 A	PNP	IMPACT67 Pro Ethernet IP DIO8 IOL8 M12L 5P
	59719	24V DC	4 A	-	MVP12-P6 DIO16 8xM12A IOLA12 B0; IO-Link Class A Hub
	54630	24V DC	16 A	-	IMPACT67 ProfiNet IO-Link DIO8 IOL8
	54631	24V DC	16 A	-	IMPACT67 Ethernet IP IO-Link master IOL8



Safety I/O Modules



Product Code	Operating Voltage	Total Current	IP Rating	Description
55556	24V DC	9 A	IP67	MVK ProfiNet/Profisafe Compact module, metal
55557	24V DC	9 A	IP67	MVK ProfiNet/Profisafe Compact module, metal
55076	24V DC	9 A	IP67	CANopen DI8 DO8 A-coded, 7/8 5P M12
55082	24V DC	9 A	IP67	Ethernet DI8 DO8 7/8 5P D-coded, M12 5P A-coded
55554	-	-	-	Cable fixation 8 × M12 Black
55091	24V DC	9 A	IP67	Ethernet M12 D-coded 7/8 5P 2x 9A DI16
55092	24V DC	9 A	IP67	Ethernet M12 D-coded 7/8 5P 2x 9A DI8 DO+8
55150	24V DC	16 A	IP67	ProfiNet M12 D-coded, M12 Power 4P, M12 5P A-coded, DIO16
55152	24V DC	16 A	IP67	ProfiNet M12 D-coded, M12 Power 4P L-code, M12 5P A-coded, IO-link master DIO12 IOL4 (IRT)
55346	24V DC	9 A	IP67	Profibus 7/8 5P M12 B-coded, M12 5P A-coded DI8 DO8
55518	24V DC		IP67	IO-link Hub galvanic separation DI8 DO8
55530	24V DC	9 A	-	Ethernet 7/8 5P D-coded , 2× max. 9 A M12, A-coded Connection DIO16
55514	24V DC	-	IP67	MVK Ethernet/IP CIP Safety IO-link 8x M12 female connectors 6 safe inputs & 2 safe outputs

Single Ended M12 | Male 90° | No LED



Product Code	Number of Poles	Jacket Color	Cable Type	Length
7000-12101-6140500	4-pole	Black	PVC	5m
7000-12101-6141000		Black	PVC	10m
7000-12101-6240500		Black	PUR / PVC	5m
7000-12101-6241000		Black	PUR / PVC	10m
7000-12121-6150500	5-pole	Black	PVC	5m
7000-12121-6151000		Black	PVC	10m
7000-12121-6250500		Black	PUR / PVC	5m
7000-12121-6251000		Black	PUR / PVC	10m

Single ended M12 | Male Straight | No LED



Product Code	Poles	Length	Jacket	Cable Type
7000-12021-6140500	4-pole	5m	Black	PVC
7000-12021-6141000		10m	Black	PVC
7000-12021-6240500		5m	Black	PUR / PVC
7000-12021-6241000		10m	Black	PUR / PVC
7000-12041-6150500	5-pole	5m	Black	PVC
7000-12041-6151000		10m	Black	PVC
7000-12041-6250500		5m	Black	PUR / PVC
7000-12041-6251000		10m	Black	PUR / PVC

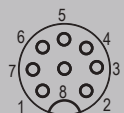
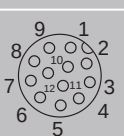
Cable Types

Properties	PVC (Type 1)	PUR/PVC (Type 2)	PUR (Type 3)	TPE	PUR (Type 5)
Flame Retardant	√	√	√	√	√
Chemical Resistant	√	√	√	√	√
Oil Resistant		√	√	√	√
Welding				√	√
C-Track Flex Rating		2 million	5 million	10 million	10 million
Torsion Rating			±180	±180	±360
UV Resistant			√	√	√
Halogen Free			√		√
Temperatures	-5 to 80°C		-25 to 80°C	-40 to 105°C	-25 to 90°C
Application Examples	Packaging Food & Bev. Assembly & Production Lines	Packaging Handling Assembly & Production Lines	Machine Tools Swivel Tables Metal Cutting	Automotive Assembly & Production Lines	Machine Tools Industrial Robots Metal Cutting

Single Ended M12 | Female Straight | No LED

	Product Code	Poles	Jacket Color	Cable Type	Length
	7000-12181-6130500	3-pole	Black	PVC	5m
	7000-12181-6230500		Black	PUR / PVC	5m
	7000-12221-6140200	4-pole	Black	PVC	2m
	7000-12221-6140500		Black	PVC	5m
	7000-12221-6141000		Black	PVC	10m
	7000-12221-6141500		Black	PVC	15m
	7000-12221-6142000		Black	PVC	20m
	7000-12221-6143000		Black	PVC	30m
	7000-12221-6240200		Black	PUR / PVC	2m
	7000-12221-6240500		Black	PUR / PVC	5m
	7000-12221-6241000		Black	PUR / PVC	10m
	7000-12221-6241500		Black	PUR / PVC	15m
	7000-12221-6242000		Black	PUR / PVC	20m

Single Ended M12 | Female Straight | No LED (Continued)

	Product Code	Poles	Jacket Color	Cable Type	Length
	7000-12241-6150500	5-pole	Black	PVC	5m
	7000-12241-6151000		Black	PVC	10m
	7000-12241-6250500		Black	PVC	5m
	7000-12241-6251000		Black	PUR / PVC	10m
	7000-17041-6070300	8-pole	Black	PVC	3m
	7000-17041-6070500		Black	PVC	5m
	7000-17041-6071000		Black	PVC	10m
	7000-17041-6640300		Black	PVC	3m
	7000-17041-6640500		Black	PUR	5m
	7000-17041-6641000		Black	PUR	10m
	7000-19041-7020500	12-pole	Black	PVC	5m
	7000-19041-7021000		Black	PVC	10m

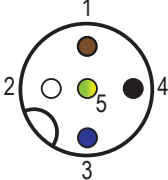
Conversion Chart



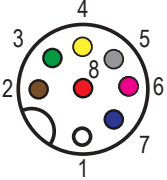
AWG	30	28	26	24	22	21	20
mm²	0.05	0.08	0.14	0.25	0.34	0.38	0.5
AWG	18	17	16	14	12	10	8
mm²	0.75	1	1.5	2.5	4	6	10

M12 Pin and Wire Colour Assignments

1. Brown (+24)
2. White (N/O)
3. Blue (-)
4. Black(N/C)
5. Green / Yellow – Earth Ground



1. White
2. Brown
3. Green
4. Yellow
5. Grey
6. Pink
7. Blue
8. Red



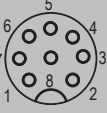
Single Ended M12 | Female 90 | No LED



Product Code	Poles	Jacket Color	Cable Type	Length
7000-12321-6130500	3-pole	Black	PVC	5m
7000-12321-6230500		Black	PUR/PVC	5m
7000-12341-6140100		Black	PVC / PVC	1m
7000-12341-6140200		Black	PVC	2m
7000-12341-6140500		Black	PVC	5m
7000-12341-6141000		Black	PVC	10m
7000-12341-6141500		Black	PVC	15m
7000-12341-6142000		Black	PVC	20m
7000-12341-6240200		Black	PUR / PVC	2m
7000-12341-6240500		Black	PUR / PVC	5m
7000-12341-6241000		Black	PUR / PVC	10m
7000-12341-6241500		Black	PUR / PVC	15m
7000-12341-6242000		Black	PUR / PVC	20m
7000-12341-6243000		Black	PUR / PVC	30m

Single Ended M12 | Female 90 | No LED



Product Code	Poles	Jacket Color	Cable Type	Length
7000-12361-6150500	5-pole	Black	PVC	5m
7000-12361-6151000		Black	PVC	10m
7000-12361-6250500		Black	PUR / PVC	5m
7000-12361-6251000		Black	PUR / PVC	10m
7000-12361-6252000		Black	PUR / PVC	20m
7000-17061-6640300	8-pole	Black	PUR	3m
7000-17061-6640500		Black	PUR	5m
7000-17061-6641000		Black	PUR	10m
7000-19061-7050500	12-pole	Black	PUR	5m
7000-19061-7051000		Black	PUR	10m

M12 LED Female 90°



Product Code	Poles	Jacket Color	Cable Type	Length
7000-12381-6130300	3 with 2x LED (PNP)	Black	PVC	3m
7000-12381-6130500	3 with 2x LED (PNP)	Black	PVC	5m
7000-12381-6131000	3 with 2x LED (PNP)	Black	PVC	10m
7000-12421-6140300	4 with 2x LED (PNP)	Black	PVC	3m
7000-12421-6140500	4 with 2x LED (PNP)	Black	PVC	5m
7000-12421-6141000	4 with 2x LED (PNP)	Black	PVC	10m
7000-12441-6150300	5 with 3x LED (PNP)	Black	PVC	3m
7000-12441-6150500	5 with 3x LED (PNP)	Black	PVC	5m
7000-12441-6151000	5 with 3x LED (PNP)	Black	PVC	10m
7000-12381-6230500	3 with 2x LED (PNP)	Black	PVC	5m
7000-12381-6231000	3 with 2x LED (PNP)	Black	PVC	10m

Single Ended M8 | Male Straight



Product Code	Poles	Jacket Color	Cable Type	Length
7000-08001-6100300	3-pole	Black	PVC	3m
7000-08001-6100500		Black	PVC	5m
7000-08001-6101000		Black	PVC	10m
7000-08001-6102000		Black	PVC	20m
7000-08011-6110300	4-pole	Black	PVC	3m
7000-08011-6110500		Black	PVC	5m
7000-08011-6111000		Black	PVC	10m
7000-08011-6112000		Black	PVC	20m

Single Ended M8 | Female Straight



Product Code	Poles	Jacket Color	Cable Type	Length
7000-08041-6100300	3-pole	Black	PVC	3m
7000-08041-6100500		Black	PVC	5m
7000-08041-6101000		Black	PVC	10m
7000-08041-6102000		Black	PVC	20m
7000-08041-6110300	4-pole	Black	PVC	3m
7000-08041-6110500		Black	PVC	5m
7000-08041-6111000		Black	PVC	10m
7000-08041-6112000		Black	PVC	20m

Single Ended M8 | Female 90



Product Code	Poles	Jacket Color	Cable Type	Length
7000-08081-6100300	3-pole	Black	PVC	3m
7000-08081-6100500		Black	PVC	5m
7000-08081-6101000		Black	PVC	10m
7000-08081-6110300		Black	PVC	3m
7000-08081-6110500	4-pole	Black	PVC	5m
7000-08081-6111000		Black	PVC	10m

Double Ended | Patch Cables | M12 Female to Male



Product Code	Poles	Length	Jacket	Cable Type
7000-40021-6140600	4-pole	0.6mm	Black	PVC
7000-40021-6141000		1m	Black	PVC
7000-40021-6240600		0.6mm	Black	PUR / PVC
7000-40021-6241000		1m	Black	PUR / PVC
7000-40021-6243000		3m	Black	PUR / PVC
7000-40041-6150060		5-pole	0.6mm	Black
7000-40041-6151000		1m	Black	PVC
7000-40041-6250060		0.6mm	Black	PUR / PVC
7000-40041-6251000		1m	Black	PUR / PVC
7000-40041-6253000		3m	Black	PUR / PVC
7000-40041-6351000		10m	Black(hifex)	PUR

Pre-Moulded Cable Selection Chart

7 0 0 0 — 4 0 1 2 1 — 2 3 4 0 3 0 0

7000 - Standard
 7002 - 304 Stainless
 7004 - 316 Stainless
 7005 - Lite (Plastic)
 7014 - Food & Bev
 7024 - Food & Bev Pro
 7044 - M12 Steel
 7050 - M 12
 7072 - xtreme
 7700 - TPE

0 - Yellow
 2 - Grey
 6 - Black

1 - PVC
 2 - PUR/PVC
 3 - PUR
 5 - Robotic

0030 = .3m
 0060 = .6m
 0100 = 1m
 0150 = 1.5m
 0200 = 2m
 0300 = 3m
 0500 = 5m
 0750 = 7.5m
 1000 = 10m

M8			
Single Ended	08001		3 pole
	08011		4 pole
	08021		3 pole
	08031		4 pole
	08041		3 pole
	08061		4 pole
	08081		3 pole
	08101		4 pole
Double Ended	88001		3 pole
	88011		4 pole
	88021		3 pole
	88031		4 pole
	88061		3 pole
	88071		4 pole

M12				
Single Ended	12001		3 pole	
	12021		4 pole	
	12041		5 pole	
	12081		3 pole	
	12101		4 pole	
	12121		5 pole	
	12181		3 pole	
	12221		4 pole	
	12241		5 pole	
	12321		3 pole	
	12341		4 pole	
	12361		5 pole	
	Double Ended	40001		3 pole
		40021		4 pole
40041			5 pole	
40101			3 pole	
40121			4 pole	
40141			5 pole	
40171			3 pole	
40201			4 pole	
40221			5 pole	

0 - 3 x 24 AWG
 1 - 4 x 24 AWG
 3 - 3 x 22 AWG
 4 - 4 x 22 AWG
 5 - 5 x 22 AWG

Yellow TPE
 150 = 4 x 18AWG
 161 = 5 x 18AWG
 U03 = 3 x 22AWG
 U04 = 4 x 22AWG
 U05 = 5 x 22AWG
 U08 = 8 x 22AWG

Black TPE
 U67 = 4 x 18AWG
 U68 = 5 x 18AWG

7 7 0 0 — 4 0 1 2 1 — 1 5 0 0 3 0 0



Bulk Cable | 500m Length



4 Core								
Product Code	Poles	Cable Type	Length	Outer Diameter	Wire Diameter	Jacket Color	Shield	
7000-C0505-6140000	4	PVC	500m	approx. 4.5mm	0.34mm ²	Black	No	
7000-C0505-6240000	4	PUR / PVC	500m	approx. 5.0mm	0.34mm ²	Black	No	
7000-C0505-6550000	4	PUR	500m	approx. 5.0mm	0.34mm ²	Black	No	
7000-C0505-7280000	4	PUR	500m	approx. 5.5mm	0.34mm ²	Black	Yes	
7000-C0505-6540000	4	PUR (Drag chain)	500m	approx. 5.0mm	0.34mm ²	Black	No	
7000-C0505-6340000	4	PUR	500m	approx. 5.0mm	0.34mm ²	Black	No	



5 Core								
Product Code	Poles	Cable Type	Length	Outer Diameter	Wire Diameter	Jacket Color	Shield	
7000-C0505-6150000	5	PVC	500m	approx. 4.5mm	0.34mm ²	Black	No	
7000-C0505-6250000	5	PUR / PVC	500m	approx. 4.5mm	0.34mm ²	Black	No	
7000-C0505-6350000	5	PUR	500m	approx. 5.5mm	0.34mm ²	Black	No	
7000-C0505-7330000	5	PUR	500m	approx. 5.5mm	0.34mm ²	Black	Yes	

Receptacles | M8 Front Mount



Product Code	Type	Pole	Rear Cable Length
7000-08553-9700020	Male	3	0.2m
7000-08573-9700020	Female	3	0.2m
7000-08563-9690020	Male	4	0.2m
7000-08583-9690020	Female	4	0.2m
*Mounting Nut Included			

Receptacles | M12 Front Mount



Product Code	Type	Pole	Rear Cable Length
7000-13502-9710020	Male	4	0.2m
7000-13542-9710020	Female	4	0.2m
7000-13522-9720020	Male	5	0.2m
7000-13562-9720020	Female	5	0.2m
7000-13562-9720100	Female	5	1m
*Mounting Nut Included			

Receptacles | M12 Front Mount



Product Code	Type	Pole	Rear Cable Length
7000-13505-9710020	Male	4	0.2m
7000-13545-9710020	Female	4	0.2m
7000-13525-9720020	Male	5	0.2m
7000-13565-9720020	Female	5	0.2m
7000-17165-9730020	Male	8	0.2m
7000-17185-9730020	Female	8	0.2m
7000-19165-9790020	Male	12	0.2m
7000-19185-9790020	Female	12	0.2m
*Mounting Nut Included			

Field Wireable Connectors | M12 IDC | Straight



Product Code	Type	Pole	Wire Diameter (AWG)
7000-12461-0000000	Male	3	0.25–0.5mm ² (24–20)
7000-12481-0000000	Male	4	0.25–0.5mm ² (24–20)
7000-12581-0000000	Female	3	0.25–0.5mm ² (24–20)
7000-12601-0000000	Female	4	0.25–0.5mm ² (24–20)



Field Wireable Connectors | M12 IDC 90°



Product Code	Type	Pole	Wire Diameter (AWG)	LED
7000-12541-0000000	Male	3	0.25–0.5mm ² (24–20)	No
7000-12561-0000000	Male	4	0.25–0.5mm ² (24–20)	No
7000-12661-0000000	Female	3	0.25–0.5mm ² (24–20)	No
7000-12681-0000000	Female	4	0.25–0.5mm ² (24–20)	No
7000-12671-0000000	Female	3	0.25–0.5mm ² (24–20)	Yes
7000-12691-0000000	Female	4	0.25–0.5mm ² (24–20)	Yes

Field Wireable Connectors | M12 Screw Terminal

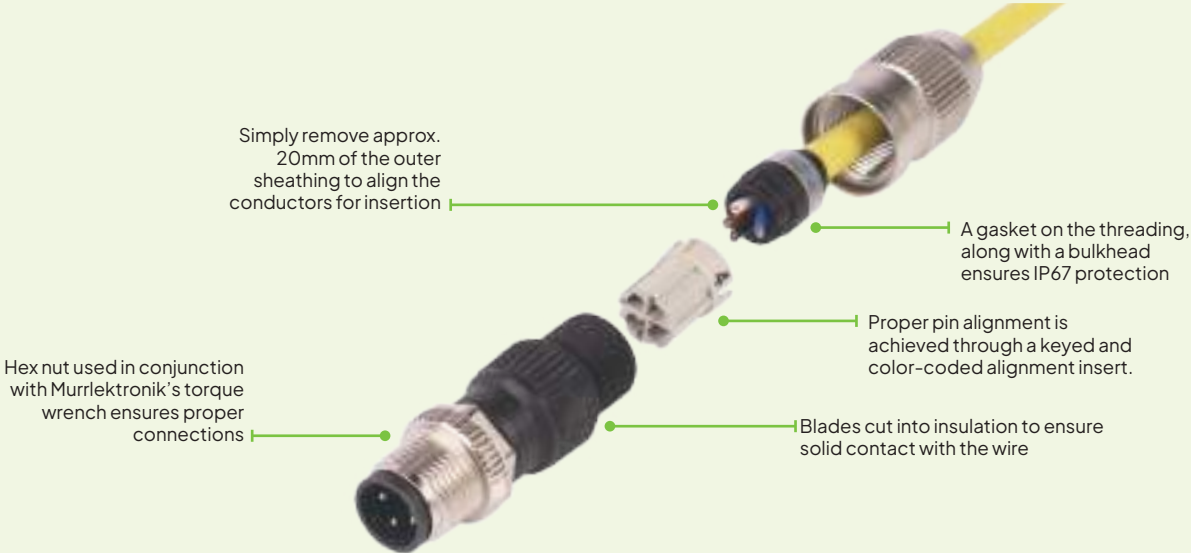


Product Code	Type	Pole	Wire Diameter (AWG)
7000-12701-0000000	Male	4	Max. 0.75mm ² (18)
7000-12721-0000000	Male	5	Max. 0.75mm ² (18)
7000-12901-0000000	Female	4	Max. 0.75mm ² (18)
7000-12741-0000000	Male (6-8mm entry)	4	Max. 0.75mm ² (18)
7000-12761-0000000	Male	5	Max. 0.75mm ² (18)
7000-12961-0000000	Female	5	Max. 0.75mm ² (18)
7000-17321-0000000	Female	8	Max. 0.5mm ² (20)
7000-17301-0000000	Male	8	Max. 0.5mm ² (20)

Field Wireable Connectors | M12 Screw Terminal 90°



Product Code	Type	Pole	Wire Diameter (AWG)
7000-12821-0000000	Male	4	max. 0.75mm ² (18)
7000-12841-0000000	Male	5	max. 0.75mm ² (18)
7000-12981-0000000	Female	4	max. 0.75mm ² (18)
7000-13001-0000000	Female	5	max. 0.75mm ² (18)
7000-17311-0000000	Male	8	max. 0.5mm ² (20)
7000-17331-0000000	Female	8	max. 0.5mm ² (20)



Field Wireable Connectors | M8 IDC Straight



Product Code	Type	Pole	Wire Diameter (AWG)
7000-08321-0000000	Male	3	0.25–0.5mm ² (24–20)
7000-08341-0000000	Male	4	0.25–0.5mm ² (24–20)
7000-08331-0000000	Male	3	0.14–0.34mm ² (26–22)
7000-08361-0000000	Female	3	0.25–0.5mm ² (24–20)
7000-08391-0000000	Female	4	0.25–0.5mm ² (24–20)

Field Wireable Connectors | M8 Screw Terminal Straight



Product Code	Type	Pole	Wire Diameter (AWG)
7000-08601-0000000	Male	3	0.14–0.5mm ² (26–20)
7000-08611-0000000	Male	4	0.14–0.5mm ² (26–20)
7000-08621-0000000	Female	3	0.14–0.5mm ² (26–20)
7000-08631-0000000	Female	4	0.14–0.5mm ² (26–20)

*90° available in stock on request.

T-Splitter | M12 – 12



Product Code	7000-41121-0000000	7000-41181-0000000
Pole	5	5
Circuit Diagram	1. Female M12 2. Female Male M12	1. Female M12 2. Female Male M12
Circuit	Standard	Standard with Signal Bridge

T-Splitter | M12 – 12 (Slimline with fixed coupling nut)



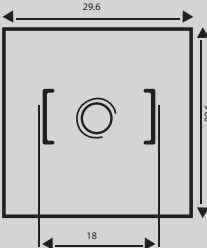
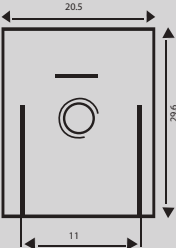
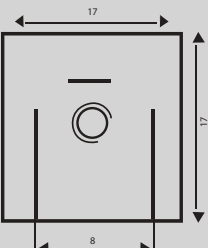
Product Code	7000-41131-0000000	7000-41191-0000000	7000-41135-0000000
Pole	5	5	5 with LED
Circuit Diagram	1. Female M12 2. Female Male M12	1. Female M12 2. Female Male M12	1. Female M12 2. Female Male M12
Circuit	Standard	Standard with Signal Bridge	Standard with LED

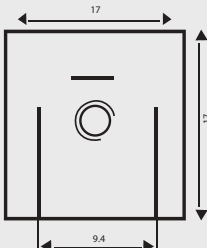


Product Code	7000-41211-0000000	7000-41231-0000000
Pole	4	3
Circuit Diagram	1. Female M8 2. Female Male M12	1. Female M8 2. Female Male M12
Circuit	Standard	Parallel

Valve Connectors | Field Wireable



	Product Code	7000-29165-0000000	7000-29821-0000000	7000-30055-0000000
	Pole	FORM A	FORM BI	FORM C
	Circuit Diagram			
	Description	0–240V AC / DC with LED & Suppression	0–240V AC / DC No LED	0–240V AC / DC No LED

Product Code	7000-94081-0000000
Pole	FORM CI
Circuit Diagram	
Description	0–240V AC / DC No LED

What makes a Murrelektronik Valve Plug a Murrelektronik Valve Plug

Wire Diagram:
Located on each valve plug.

LED / Suppression
Not Polarity Sensitive.

Captive Screw
Label Plate



Choice of cable type and colour (yellow, grey, black)

Captured Gasket IP67 Sealed

Fully Potted
Resistant to shock and vibration



TREE UNMANAGED METAL SWITCH

- 4/8 M12 connections (D-coded)
- EMI-immune
- Vibration-resistant
- Temp range -25...60 °C
- Prioritises PROFINET (QoS IEEE 802.1q)
- Redundant 18–30 V supply
- Cascading design
- Reliable with few models per line

Ethernet Switch –Networking Effectively

Murrelektronik’s TREE series switches connect Ethernet terminal devices. The new IP67–protected models feature four or eight M12 ports and are ideal for harsh industrial environments, such as robots, cranes, and die-casting or moulding machines. They enable cost-effective implementation of decentralised machine concepts in star topologies.

MVK METAL SAFETY

The fully potted I/O modules are suitable for applications in harsh industrial environments, thanks to IP67 protection and a high resistance to media and vibrations. Moreover, they feature comprehensive diagnostic options. Errors such as overload, sensor short circuit or wire breaks are monitored for each individual channel, signaled by an LED at the affected port and reported to the control.

Optimum Protection For Man And Machine

MVK Metal Safety uses PROFI-safe – a safety-related expansion of PROFINET to transfer safety-related data. This standard protocol for industrial applications allows you to use preexisting communication technologies which saves on both wiring and installation time. Another benefit is that standard PROFINET modules can be integrated into the individual lines.

The variants with the article number *****10 are modules with an **extended temperature range** that are suitable **down to –30°C**. These variants can be used for applications such as cold stores.

XELITY 10 TX IP67

Faster start-up

Fewer costs

Greater expansion

Shorter cables

Better diagnostics

Fewer cable entry systems

More space in the control cabinet

- Three models: 10x100 Mbit/s, 10x1000 Mbit/s, 2x1000 Mbit/s + 8x100 Mbit/s
- 4/5-pole L-coded M12 power connection
- IP67 metal housing
- Shock & vibration resistant
- Managed or PROFINET-managed
- With/without functional ground (4/5-pole)
- "Power Out" for power daisy-chain
- NAT switch support (managed models)
- Automatic neighbour detection (LLDP)

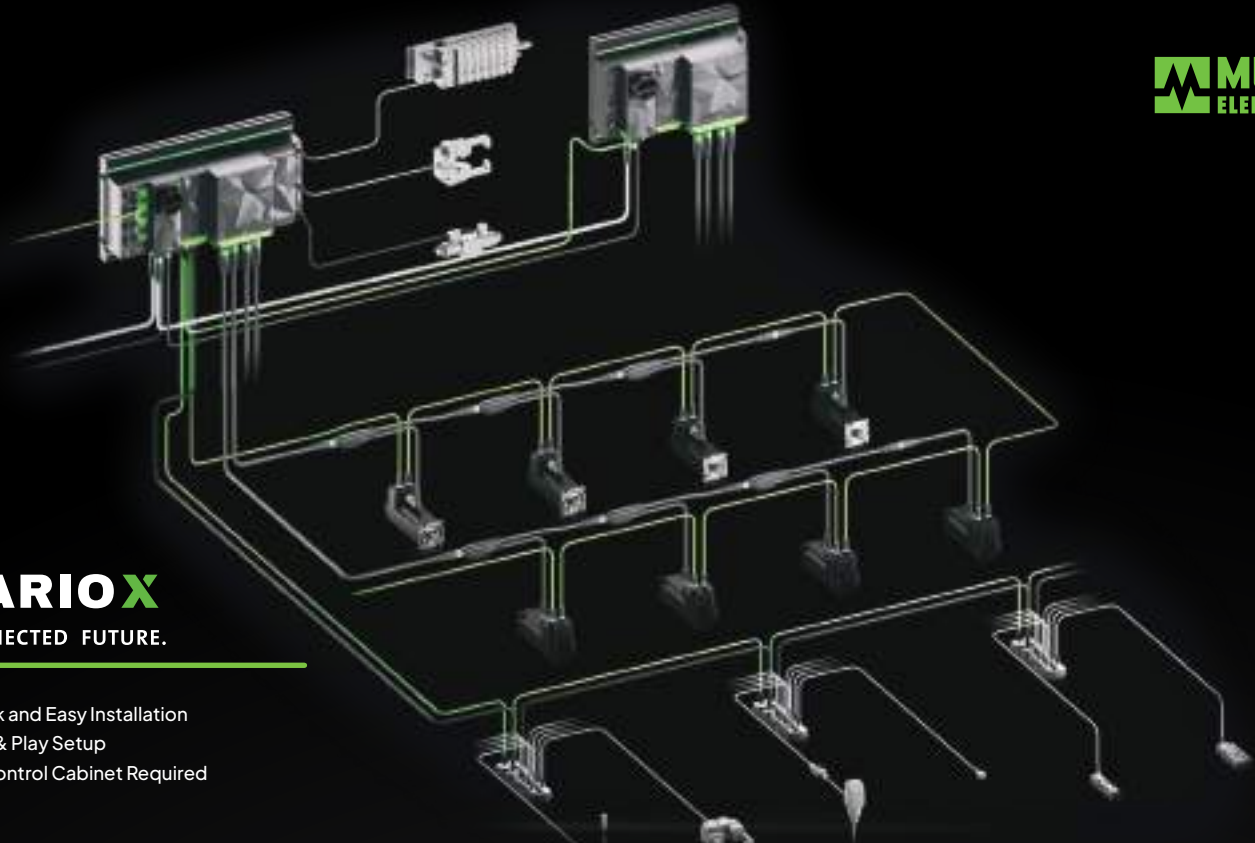
Decentralised Networking Made Easy!

The Xelity 10 TX IP67 switch from Murrelektronik opens up smart, decentralized data management for IIoT. With the IP67 rated Xelity 10 TX managed switch, fail-safe networks can be implemented under the most difficult conditions in the most diverse application scenarios – including fast data flow rates of up to 10 x Gigabit in one switch. The biggest benefit is the availability of 10 ports in an enormously small, but very robust, metal housing.

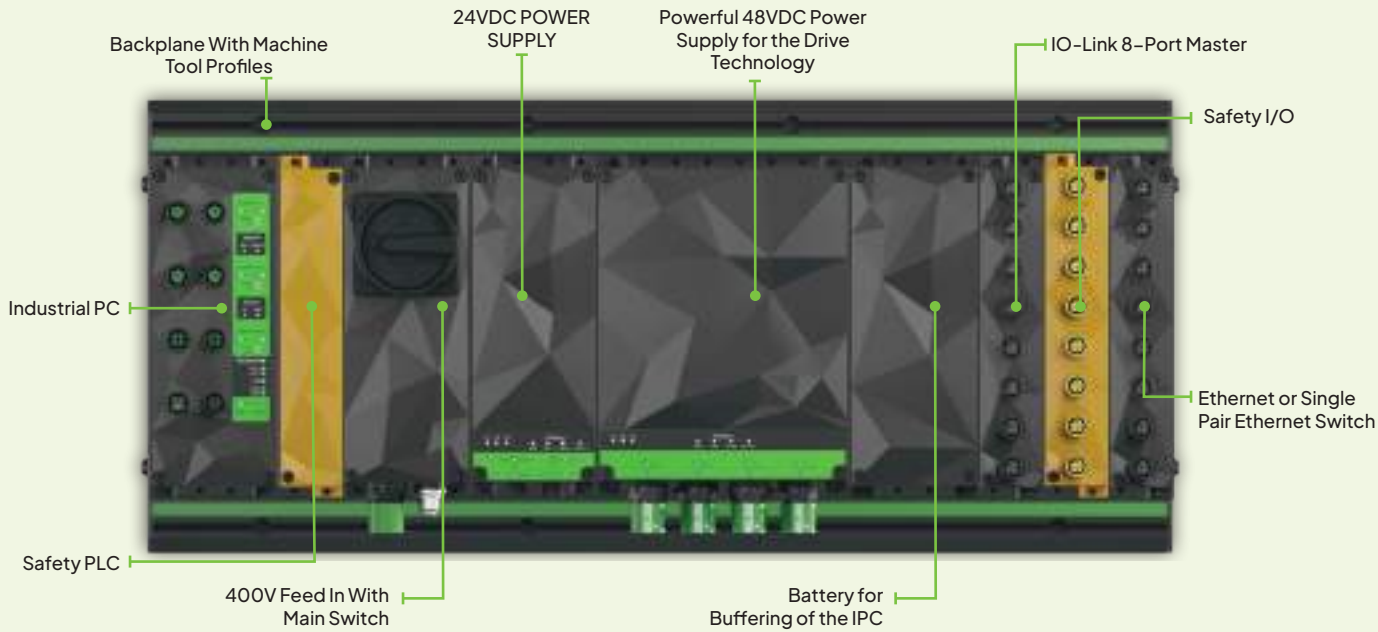


VARIOX
CONNECTED FUTURE.

- | Quick and Easy Installation
- | Plug & Play Setup
- | No Control Cabinet Required

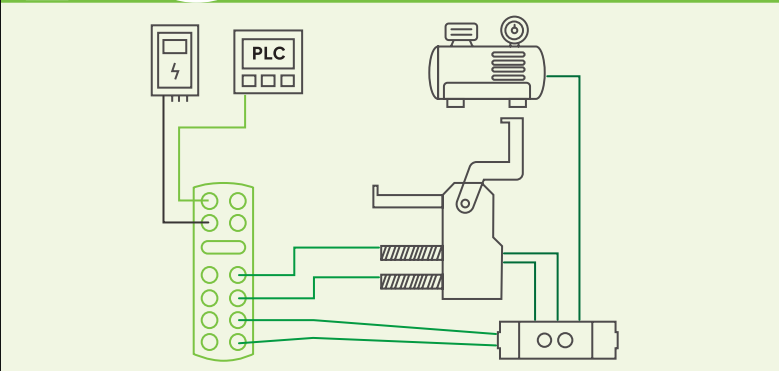


Vario-X Portfolio



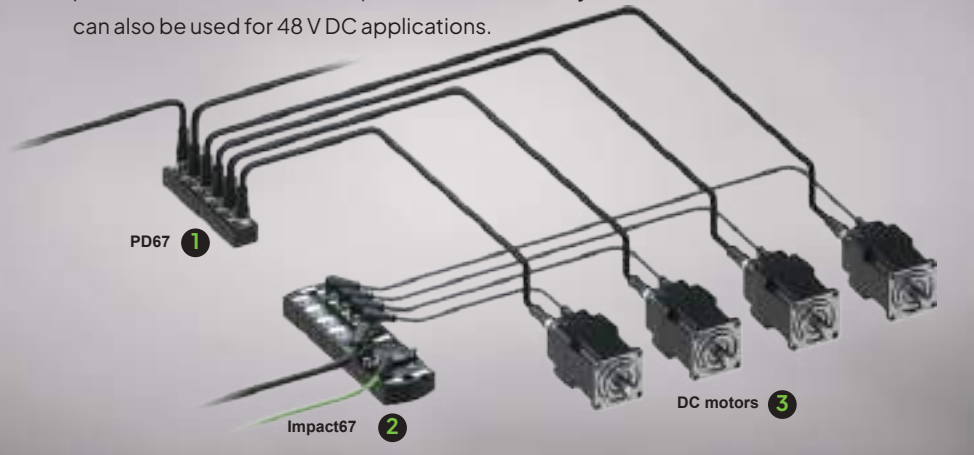
VARIOX

VS Pneumatic





The PD67 distributes 24 V DC to four motors, while the fifth port can be used flexibly for another motor or for daisy-chaining power. An IO-Link master (Impact67) controls the system – can also be used for 48 V DC applications.



Advantages:

- Decentralised distribution: 2 x 16A via five M12 L-coded sockets
- Wide voltage range: 12–48V DC (up to 60V recovery)
- Field-ready: IP67, shock/vibration resistant, deep-freeze capable
- LED status: Shows Us (control) and Ua (load)
- Galvanic isolation: Us and Ua isolated
- Worldwide certified: CE, UKCA, cULus

Power Distributor PD67

A smart solution for decentralised power

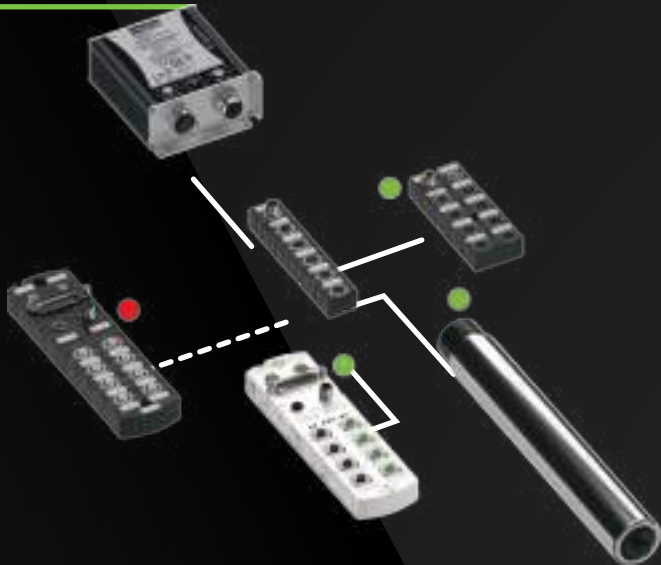
Decentralised, robust, and flexible power distribution for automation. Supplies up to five devices with 12–60V DC (I/O modules, DC motors). M12 L-coded 5-pin connectors. Operates –30 °C to +70 °C.



Technical Specification

Product Code	Description	Output Current	Voltage	No. of Channels
9000-43015-1600071	PD67-Standard-5.16	2x 16A	12–60 VDC	5

Mico67



As early as necessary, as late as possible – this intelligent switch-off behavior is the hallmark of our Mico family of electronic current protection products. Mico67, the newest member of the family, brings that functionality to edge/field installation applications making the integration of Class 2 circuits easy.

Benefits

- No assembly necessary
- Space-saving installation directly on the application thanks to protection class IP67
- L-coded M12 Power Connection
- Plug & Play
- LED diagnostics
- NEC Class 2

IP67 Electronic Current Protection

These IP67 rated modules are ideal for protecting numerous devices with similar voltage requirements. Thanks to the power supply and its L-coded M12 port, the modules can be supplied with up to 16 A and, depending on the model, can also be daisy chained. Each module is equipped with four A coded M12 NEC Class 2 ports, which are fused with either 2 or 4 A depending on the model. LEDs indicate the operating status of each port and will flash when a load of 90 % is reached. In the event of an overload or short circuit, Mico67 will switch off the affected port and the LED will flash red.



Product Code	Description	Output Current	Voltage	No. of Channels
9000-41014-0200067	MICO67 4.2 CL2, expandable	2A	24V DC	4
9000-41014-0400067	MICO67 4.4 CL2	4A	24V DC	4
9000-41014-0400068	MICO67 4.4 CL2, expandable	4A	24V DC	4

Multiple Limit Switches (Roller Plunger) - Plunger Spacing 12mm

	Product Code	Description
	094856	1 way snap-action switching contact 1NC + 1NO, N01R550-MC20
	082165	2 way snap-action switching contact 2NC + 2NO, SN02D12-502-M
	082164	3 way snap-action switching contact 3NC + 3NO, SN03D12-502-M
	082162	4 way snap-action switching contact 4NC + 4NO, SN04D12-502-M
	086581	6 way snap-action switching contact 6NC + 6NO, SN06D12-502-M
Entry M12 Contact us for Trip rails and dogs		

Limit Switches (Steel) | Rugged

	Product Code	Description
	088616	Chisel plunger, M20 IP67, Snap action 1N C + 1N O
	079911	Spring actuator, M20 IP67, Snap action 1N C + 1N O
	079927	Steel roller lever switch, M20, IP67 Snap action 1N C + 1N O
	088604	Ball Plunger, IP67 Snap action 1N C + 1N O
	079941	Poller lever plunger, Snap action 1N C + 1N O
	079932	Pivoted lever arm SM (aluminum rod), M20 IP67, Snap action 1N C + 1N O
	079934	Adjustable roller lever arm (steel roller), M20, IP67, Snap action 1N C + 1N O

Single Hole Limit Switch

	Product Code	Description
	075426	Euchner M12 diameter, 74mm length single hole limit withreed contact and protective diode stainless steel frame,1NO contact, M12 connector, 75mm length, 2.5mm head travel.
	052504	Euchner M18 diameter, 74mm length single hole limit with Snap-action switching contact, 1NC contact and 1NO contact, M12 connector, 93mm length, 0.5mm head travel.



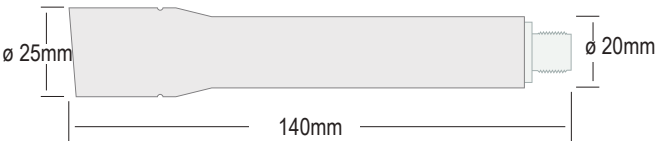
HD Laser | Visual Line, Cross and Point Laser



- Performance
- Focusable
- Line, Cross and Point Laser
- Heavy Duty, extremely robust
- Protected from voltage variations



Drawing



Optics

Type	Beam Type	Opening Angle
A	Line	80°
B	Line	30°
C	Line	20°
D	Line	10°
E	Line	40°
K	Cross	38°
L	Cross	62°
P	Point	

Technical Data

Laser Type / Laser Colour	diode / red
Wave Length	635nm (optional 670nm)
Output Power	1 to 30mW
Divergence	0.5 mrad
Focus Adjustment	manually, without tools
Operating Voltage AC / DC	12–30V DC / 15–30V AC
Power Consumptions	< 200mA
Enclosure Rating	IP 67
Dimensions / Weight	L:140mm × ø 25mm (front); 20mm (back) / 220g
Power Connector	M12, 4-core
Application	–10 to +40 °C, 35 to 90% rel. humidity, non-condensing
Conditions MTTF	> 30.000h at 25°C

Line Lasers

	Product Code (Red laser)	Product Code (Green laser)	Output Power	Line length Optic 80°(A)	Laser Class 80°(A)	40°(E)	30°(B)	20°(C)	10°(D)
	LAP 1 HDL	LAP 1 HYL	1mW	up to 1m	1	1	1	1	1
	LAP 3 HDL	LAP 3 HYL	3mW	up to 2m	1	1	2	2	2
	LAP 5 HDL	LAP 5 HYL	5mW	up to 4m	1	2	2	2	2
	LAP 10 HDL	LAP 10 HYL	10mW	up to 6m	2	2M	2M	2M	2M
	LAP 15 HDL	LAP 15 HYL	15mW	up to 10m	2	2M	2M	2M	2M
	LAP 30 HDL	LAP 30 HYL	30mW	up to 20m	2M	3R	3R	2M	3R

Crosshair Lasers

	Product Code (Red laser)	Product Code (Green laser)	Output Power	Line length Optic 38°(K) / 62°(L)	Laser Class 38°(K)	62°(L)
	LAP 1 HDX	LAP 1 HXX	1mW	60cm / 90cm	1	1
	LAP 3 HDX	LAP 3 HXX	3mW	60cm / 90cm	1	1
	LAP 5 HDX	LAP 5 HXX	5mW	60cm / 90cm	1	2
	LAP 10 HDX	LAP 10 HXX	10mW	60cm / 90cm	2	2M
	LAP 15 HDX	LAP 15 HXX	15mW	60cm / 90cm	2	2M
	LAP 30 HDX	LAP 30 HXX	30mW	60cm / 90cm	2M	2M



Point Lasers

	Product Code (Red laser)	Product Code (Green laser)	Output Power	Laser Class
	LAP 1 HDP	LAP 1 HYP	1mW	2
	LAP 3 HDP	LAP 3 HYP	3mW	3R
	LAP 5 HDP	LAP 5 HYP	5mW	3R
	LAP 10 HDP	LAP 10 HYP	10mW	3B
	LAP 15 HDP	LAP 15 HYP	15mW	3B
	LAP 30 HDP	LAP 30 HYP	30mW	3B
Standard optics, line length depends on ambient light, height above surface, angle. In 1m distance.				

Brackets | Accessories

	Product Code	Description
	B3-HD	Standard bracket for HD/FD series

Power Supply | Accessories

	Product Code	Description
	24BS24AD4E	2.5 Amp power supply
		60 Watt power supply
		Input: 110–240V AC Output: 240V DC

Connector | Accessories

	Product Code	Description
	7000-12981-000000	4-pin, 90° degree, M12 Connector



Safety Automation

We provide a comprehensive range of safety automation products including mechanical machine guarding and safety gate switches. In addition, we supply the safety devices needed in and around machinery, such as safety scanners, light curtains, PLCs, relays and all optical safety sensors. The brands we supply include Euchner, Pilz and Troax.



ST20 Mesh Panel



Product Code	Colour	Description
20020626	Black RAL 9005	Meshpanel ST20 1250 x 200mm
20030626	Black RAL 9005	Meshpanel ST20 1250 x 300mm
20050626	Black RAL 9005	Meshpanel ST20 1250 x 500mm
20070626	Black RAL 9005	Meshpanel ST20 1250 x 700mm
20080626	Black RAL 9005	Meshpanel ST20 1250 x 800mm
20100626	Black RAL 9005	Meshpanel ST20 1250 x 1000mm
20120626	Black RAL 9005	Meshpanel ST20 1250 x 1200mm
20150626	Black RAL 9005	Meshpanel ST20 1250 x 1500mm
20020606	Black RAL 9005	Meshpanel ST20 2050 x 200mm
20030606	Black RAL 9005	Meshpanel ST20 2050 x 300mm
20050606	Black RAL 9005	Meshpanel ST20 2050 x 500mm
20070606	Black RAL 9005	Meshpanel ST20 2050 x 700mm
20080606	Black RAL 9005	Meshpanel ST20 2050 x 800mm
20100606	Black RAL 9005	Meshpanel ST20 2050 x 1000mm
20120606	Black RAL 9005	Meshpanel ST20 2050 x 1200mm
20150606	Black RAL 9005	Meshpanel ST20 2050 x 1500mm

Smart Fix system has been upgraded to - Smartfix is now 2100J – 134kg at 20.15km/h | Other colours as well as 2350mm high available on request.

ST20 Cut Profile | End Profile | Edge Cover



Product Code	Colour	Description
35800806	Black RAL 9005	Cut profile UR/ST20 L=200mm
35700400	Black RAL 9005	UR/ST20 Kit cutting cap
35800816	Black RAL 9005	Cut profile UR/ST20 L=300mm
35800876	Black RAL 9005	Cut profile UR/ST20 L=500mm
35800826	Black RAL 9005	Cut profile UR/ST20 L=700mm
35800836	Black RAL 9005	Cut profile UR/ST20 L=800mm
35800846	Black RAL 9005	Cut profile UR/ST20 L=1000mm
35800856	Black RAL 9005	Cut profile UR/ST20 L=1200mm
35800866	Black RAL 9005	Cut profile UR/ST20 L=1500mm
30500926	Black RAL 9005	End profile ST L=2050mm
29500700	Black RAL 9005	Edge Cover
29500231	Silver RAL 9006	Snapper 19mm Silver Coat

Cut profiles are used to adjust the height of a ST20 Meshpanel.

ST20 Post | Brackets



Product Code	Colour	Description
29601522	Yellow RAL 1018	Post and foot, 60 x 40 x 2200mm
36700074	Zinc-plated	Kit Bracket Smart Fix. Consists of 2 brackets per kit.
29801552	Yellow RAL 1018	Post and foot, 80 x 80 x 2200mm
36700098	Zinc-plated	Kit Bracket Safe Fix. Consists of 2 brackets per kit
29601502	Yellow RAL 1018	Post and foot, 60 x 40 x 1400mm
36701060	Zinc-plated	Kit Bracket Rapid Fix. Consists of 2 brackets per kit.
36701070	Zinc-plated	Kit Bracket Rapid Fix Rt. Consists of 2 brackets per kit.
36701080	Zinc-plated	Kit Bracket Rapid Fix Lt. Consists of 2 brackets per kit



ST20 Full Steel | 1000J



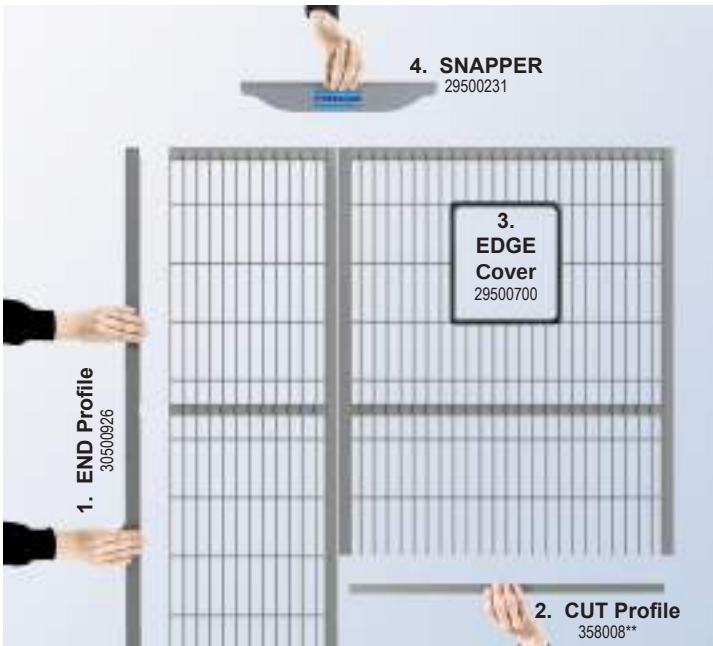
Product Code	Colour	Description
35020511	Grey RAL 7037	Full Steel Panel UR SP 2200x200 19x19
35030511	Grey RAL 7037	Full Steel Panel UR SP 2200x300 19x19
35070511	Grey RAL 7037	Full Steel Panel UR SP 2200x700 19x19
35080511	Grey RAL 7037	Full Steel Panel UR SP 2200x800 19x19
35100511	Grey RAL 7037	Full Steel Panel UR SP 2200x1000 19x19
35120511	Grey RAL 7037	Full Steel Panel UR SP 2200x1200 19x19
36098301	Grey RAL 7037	Full Steel Door UX SP980 2100x980 30x20
Also available in ST30 on request - Panel ST30 Superior impact resistance: 6,000 joules with Strong Fix		

ST30 Polycarbonate | 1600J



Product Code	Colour	Description
31020606	Black RAL 9005	Polycarbonate Panel ST PC 2050x200 3mm 30x20
31030606	Black RAL 9005	Polycarbonate Panel ST PC 2050x300 3mm 30x20
31050606	Black RAL 9005	Polycarbonate Panel ST PC 2050x500 3mm 30x20
31070606	Black RAL 9005	Polycarbonate Panel ST PC 2050x700 3mm 30x20
31080606	Black RAL 9005	Polycarbonate Panel ST PC 2050x800 3mm 30x20
31100606	Black RAL 9005	Polycarbonate Panel ST PC 2050x1000 3mm 30x20
31120606	Black RAL 9005	Polycarbonate Panel ST PC 2050x1200 3mm 30x20
31150606	Black RAL 9005	Polycarbonate Panel ST PC 2050x1500 3mm 30x20

Trim kits for easy adjustment on site



1. END Profile

The end profile is a flexible solution for adjusting the width of the mesh panel on site while still retaining strength as a welded panel.

2. CUT Profile

The cut profile is a flexible solution for adjusting the height of the mesh panel on site. An additional kit is available if both a cut in height and width is necessary.

3. EDGE Cover

Edge cover is a flexible solution for covering sharp edges after cutting mesh for access.

4. SNAPPER

The Snapper supports fencing which has being joined together. Includes one upper and one lower profile.

Many other accessories available. Please enquire.

Machine Protection Door

ASSA ABLOY

ASSA ABLOY RP300 / RP300 Wide / RP300 USD

ASSA ABLOY Entrance systems | PROFINET | PROFINET with PROFIsafe | PROFIBUS | EtherNet/IP



Nationwide Rubicon Service Division

Contact our team to
customise your requirements
— safe access made easy.

Advantages of the door

- Rapid opening and closing ensures short cycle times up to 5 cycles per minute
- High reliability even after years of high numbers of cycles
- Safety limit switches according to EN ISO 13849-1 and EN 62061
- Doors conform to EN ISO 12100 and EN ISO 14119
- Versions conforming to various factory standards are possible
- Type tested machine protection door with fabric door blade



PROFINET



PROFINET with PROFIsafe



PROFIBUS



EtherNet/IP



The above image shows how the door is used in an assembly line.

Automated manufacturing demands uninterrupted production and strict safety. ASSA ABLOY RP300 doors protect personnel and maintain workflow by opening and closing in sync with production cycles. They enable rapid access to machines and workpieces and can be installed on machines, lines, or railings.

Key Advantages – RP300 / RP300 Wide / RP300 USD:

- **Service-friendly:** Two-piece aluminum side frames allow easy inspection and maintenance.
- **Pre-running photocell (optional):** Compatible with Albany MCC for faster closing and improved operator comfort.
- **Integrated cable chain:** Safely guides safety edge and photocell cables; pluggable for maintenance.
- **Optional chain drive:** Ideal for space-constrained installations.

Machine Connectivity:

MCC and ACS 50 units connect via 24 V DC or potential-free signals:

- 2 potential-free safety contacts (door closed)
- 1 signal output when door is open
- 1 signal output when door is closed
- 1 signal output for faults



The ASSA ABLOY RP300 USD operates with a bottom-to-top closing motion.



Technical Data

Product Module	ASSA ABLOY RP300	ASSA ABLOY RP300 Wide	ASSA ABLOY RP300 USD
Application	Interior Door / Machine Protection Door	Interior Door / Machine Protection Door	Interior Door / Machine Protection Door

Door Dimensions

DW (min./max.)	750 / 4000mm	750 / 6000mm	1000 / 5500mm
DH (min./max.)	750 / 3500mm	750 / 5000mm	1000 / 3500mm
Max. Area	14m²	30m²	14m²
Opening Direction	Vertical	Vertical	Vertical
Wind Resistance (EN 12424)	Class 1 (max. 11m²)	Class 1 (up to DW ≤ 5600mm)	Class 1
Noise Emission	< 70 dB(A)	< 70 dB(A)	< 70 dB(A)
Temperature Range Max. (Extended on Request)	+10°C – +45°C (0 up to +60°C)	+10°C – +45°C (0 up to +60°C)	+10°C – +45°C (0 up to +60°C)
Surface Material			
Side Frame	Anodised Aluminium	Anodised Aluminium	Anodised Aluminium
Top Roll Cover	• Anodised Aluminium	• Anodised Aluminium	Anodised Aluminium
Bottom Profile	Anodised Aluminium	Anodised Aluminium	Anodised Aluminium
Motor Cover	• Powder Coated Steel, RAL 9006	• Powder Coated Steel, RAL 9006	• Powder Coated Steel, RAL 9006
Extension Side Frame	–	–	250 – 500 mm (depending on door type)

Safety Features

Electrical Safety Contact Edge	✓	✓	–
Door Line Photocell	✓	✓	–
Pre-running Photocell (Only in Combination with MCC, Door Line Photocell as Option)	•	•	✓
Drop Down Protection in Drive Unit	✓	✓	–
Pre-running Photocell (Additional)	–	–	✓
Emergency Egress	Crank Handle	Crank Handle	Crank Handle
Counterbalance	–	–	Counterbalance
Equipment			
LED Traffic Light	•	•	•
Traffic Light / Flashing Alarm Light	•	•	•
Suitable Machine Protection	✓	✓	✓
Magnetic Switch in Side Frame	✓ 1 piece / • 2 piece	✓ 1 piece / • 2 piece	✓ 1 piece / • 2 piece
Window in Side Frame (View on Magnetic Switch)	•	•	•

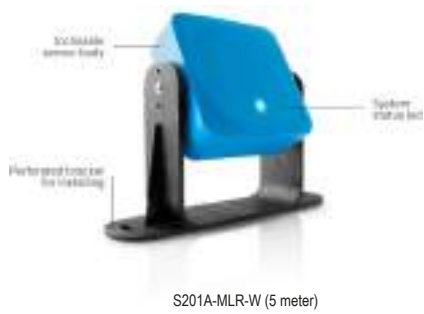
Drive Unit

Motor Power	0.75kW	0.75kW	0.75kW
Chain Drive	•	•	–
Gear Heating	•	•	•
Control System	✓ACS 50 / • MCC	✓ACS 50 / • MCC	✓MCC
Control System Performance			
MCC Open/Close Max. (m/s)	• 2.4 / 1.32.4 / 1.75 (pre-running photocell)	• 1.7 / 1.01.7 / 1.1 (pre-running photocell)	✓2.2 / 1.5
ACS 50 Open/Close Max. (m/s)	✓1.0 / 1.0	✓ 0.8 / 0.8	–
Cycles per Minute Max. (Exact number depending on application)	ACS 50 = 1MCC = 3–5*	ACS 50 = 1MCC = 1–1.5*	MCC = 5*
Separate Display / Control	Only at MCC	Only at MCC	Only at MCC
Fuse Protection (by Site)	10 A (C-characteristic) (at 220/230V 16A)	10 A (C-characteristic) (at 220/230V 16A)	10 A (C-characteristic) (at 220/230V 16A)
Control Voltage	24V DC	24V DC	24V DC
Protection	IP55	IP55	IP55
Potential-Free Contacts	•	•	•
UL Version	• ACS50 / • MCC	• ACS50 / • MCC	• MCC

Network Connection

ACS 50	Standard: 3L/(N) PE/220/230/380/400/415V; 50HzWith transformer: 3L/(N)PE/440/480/500V; 50HzUL-Version: 3L/(N) PE/208/220/230/460/480V; 60Hz	—	—
MCC	Standard: 3L/(N) PE/380/400/415/440/460/480V; 50/60HzWith transformer: 3L/(N) PE/220/230/500V; 50HzUL-Version: 3L/(N)PE/208/220/230/460/480V; 60Hz	Standard: 3L/(N) PE/380/400/415/440/460/480V; 50/60HzWith transformer: 3L/(N) PE/220/230/500V; 50HzUL-Version: 3L/(N)PE/208/220/230/460/480V; 60Hz	Standard: 3L/(N) PE/380/400/415/440/460/480V; 50/60HzWith transformer: 3L/(N) PE/220/230/500V; 50HzUL-Version: 3L/(N)PE/208/220/230/460/480V; 60Hz

Sensor



S201A-MLR-W (5 meter)



S201A-MLR (9 meter)

Product Code	90302111
Model	S201A-MLR-W Smart Sensor 100 Series
Connectors	2 5-pin M12 connectors (1 male and 1 female)
Can Bus Termination Resistance	120 Ω (not supplied, to be installed with termination connector)
Power Supply	12V DC ± 20%, through controller
Degree Of Protection	IP67
Detection Fields	4 configurable detection fields (safe areas)
Material	Sensor case: PA66 Bracket: PA66 and glass fiber (GF)
Frequency	Working band: 24–24, 25 GHz (24.05 - 24.25 for UK and FR) Transmission power: ≤ 13 dBm - Modulation: FMCW
Sensing Field And Installation Height	Wide FOV configuration: 110° Horiz. 30° Vert., Height: 0 to 5m Narrow FOV configuration: 50° Horiz. 15° Vert., Height: 0 to 5m
Category	3.5iL2
Product Code	90305111
Model	S201A-MLR
Frequency	24 GHz ISM license-free
Connectors	Two 5-pin M12 connectors (1 male and 1 female)
Can Bus Termination Resistance	120 Ω (not supplied, to be installed with termination connector)
Power Supply	12 V DC ± 20%, through controller
Power Consumption	2,8 W
Degree Of Protection	IP67
Sensing Field	9 meter detection range
Category	3.5iL2

Control Unit



Product Code	90304011
Model	ISC-03 Control Unit 200 SERIES Digital I/O
Outputs	4 Outputs Signal Switching Devices (OSSDs) or 2 dual channel safety outputs
Safety Relay Outputs	High-side outputs (with extended protection function) Max voltage: 30 V DC Max current: 0,4 A Max power: 12 W
Inputs	2 dual channel TYPE3 digital inputs with common GND
Power Supply	24 V DC (20–28 V DC) Max current: 1A (no OSSD)
Consumption	Max. 5 W
Assembly	DIN guide
Degree Of Protection	IP20
Terminals	Section: 1 mm² Max Current: 4A with 1 mm² cables

Sensor / Sensor Cable CANBus, PVC, 5-poles, Totally Shielded

	Product Code	In Side	Out Side	Length
	8047521	Connector M12, female, A-coded, angled 90°	Connector M12, female, A-coded, angled 90°	5m
	8047522	Connector M12, female, A-coded, angled 90°	Connector M12, female, A-coded, angled 90°	10m
Open ended cables.				

Sensor/Control Unit Cable CANbus, PVC, 5-Poles, Totally Shielded

	Product Code	Sensor Side	Controller Side	Length
	8047536	Connector M12, female, A-coded, angled 90°	Free wires	5m
	Open ended cables.			

Bus Terminator

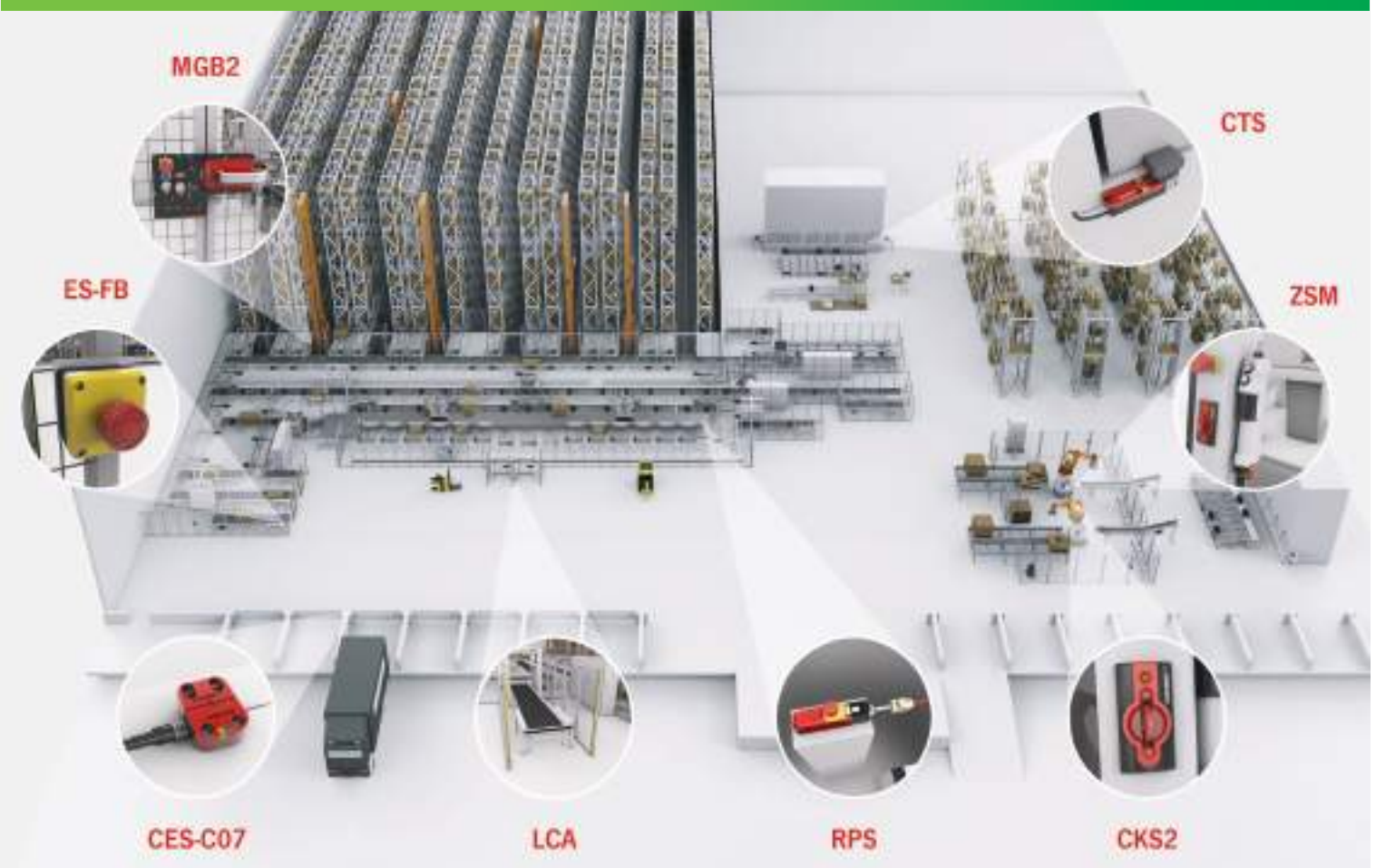
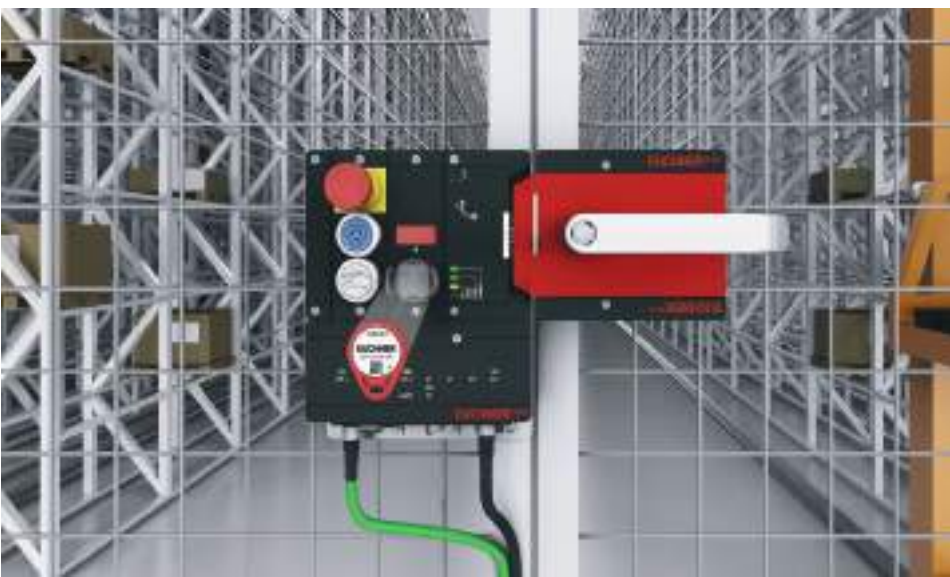
	Product Code	Description
	8047943	Bus terminator M12, straight 180°, male, 5-pole, A-coded between the poles 4 and 5, 1 resistance 120Ω 1/2W

Reliable Safety Systems for Modern Facilities

EUCHNER

More than safety.

EUCHNER provides reliable safety solutions designed to protect people and maintain efficient material flow in modern logistics environments. From smart key systems and safety door systems to compact switches, light curtains and emergency stops, each product delivers robust protection and smooth operation across automated facilities. The result is a flexible, intelligent safety setup that reduces downtime and supports consistent, efficient processes.



Safety Solutions for Efficient Logistics

CKS2 – Smart Key System

- Saves time and reduces costs
- Secure key solution for logistics
- All-in-one system with personal key
- Up to 65,536 key codes with one RFID key
- Easy key replacement via teach-in

MGB2 – Modular Safety Door System

- High-level protection
- Flexible configuration for various applications

CTS & CES-C07 – Compact Safety Switches

- High tamper resistance
- Reliable protection for facility equipment

ZSM – Multifunctional Enabling Switch

- Ergonomic design
- Maximum flexibility for operator control

LCA – Light Curtains

- Reliable presence and access monitoring
- Suitable for diverse applications

RPS – Rope Pull Switches

- Ideal for long conveyor or large-area systems
- Optional plug connector to simplify wiring

ES-FB – Emergency Stop Device

- Easy installation with housing and M12 plug connector
- High safety and application flexibility

CKS2 – Smart Key System



MGB2 – Modular

ES Series: Emergency Stop Buttons | Surface Mount



- Features**
- Supplied assembled
 - Additional contact to signal contact block drop off
 - Visual indication of switch position
 - Twist to release mechanism
 - LED illumination

Product Code	Description
105014	Panel Mount 2N/C & 1 N/O + Contact Disassembly Monitoring
105018	Surface Mount 2N/C & 1 N/O + Contact Disassembly Monitoring

Suitable Interface

085613	24V DC Safety Relay 3 N/O & 1 N/C with screw terminal
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ZS Series: “Deadman” Enabling Switch



- Features**
- Ergonomic Design / Lightweight 3 position operation (clench or release operation)
 - Variants with plus or minus buttons for machine jog
 - 4-pole contact elements
 - Straight & spiral cable available Up to IP67 rating

Product Code	Description
070766	3 Position Enabling Switch 2 N/O & 2 N/C, IP67 with 5M Spiral Cable
070765	3 Position Enabling Switch 2 N/O & 2 N/C, IP67 with 10M Straight Cable
092378	3 Position Enabling Switch 2 N/O & 2N/C, with Plus & Minus Jog Buttons, IP65 with 5M Straight Cable

ZS Accessories

047820	Holding Bracket for E100 Enabling Switch
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RPS Series: Rope Pull Switch Interlocks in Robust Housing



- Features**
- 2 Housing variants Slim and Standard
 - Industry standard mounting footprint
 - Robust die-cast housings
 - IP67 rated M20 cable entry
 - Other contact layouts available
 - Wide range of accessories for easy installation

Product Code	Description
088882	Rope Pull Switch Clamping head,100m 2 N/C & 2 N/O Contacts, E-Stop, Slim Metal Housing
114983	Rope Pull Switch Clamping head,175m 2 N/C & 2 N/O Contacts, E-Stop, Metal Housing

RPS Series Accessories

Product Code	Description
092814	100m Rope
092495	Eye bolt for rope pull switches (5PCS)
092501	Pulley set RPS-PS/V5 for rope pull switches (5PCS)
092496	Rope set for rope pull switches (5PCS)
092136	Tensioner spring for tensile force 110N / 175N
092498	Turn buckle M6 x 60

NM Series: Plastic Position Interlocks



Features

- Mini-housing for light duty applications
- Robust glass-fibre reinforced thermoplastic construction
- IP67 rated
- Roller plunger, lever & hinge variants in same compact housings
- High switching cycle ratings
- M16 cable entry

Product Code	Description	Dimensions (L x W x D)
095371	Plastic Body Roller Arm Switch 1 N/C & 1 N/O Contact	90.5 x 25 x 25mm
095373	Plastic Body Roller Plunger Switch 1 N/C & 1 N/O Contact	81.5 x 25 x 25mm
095367	Plastic Body Hinge Switch Shaft length 75 mm 1N/C & 1 N/O Contact	85.5 x 25 x 25mm
095375	Plastic Body Domed Plunger Switch 1 N/C & 1 N/O Contact	77.5 x 25 x 25mm

Suitable Interface		
085613	24V DC Safety Relay 3 N/O & 1 N/C with screw terminal	-

NZ Series: Metal Safety Limit Switches



Features

- Compact housing for heavy duty applications
- Robust die-cast housing
- IP67 rated
- Roller plunger, lever in same compact housings
- High switching cycle ratings
- M20 cable entry
- Industry standard housing

Product Code	Description	Dimensions (L x W x D)
090968	Metal Body Roller Lever 3 N/C & 1 N/O Contact	100 x 40 x 42mm
090934	Metal Body plastic roller ø 12 mm 3 N/C & 1 N/O Contact	97 x 40 x 42mm
089629	Metal Body Dome Plunger Switch 3 N/C & 1 N/O Contact	97 x 40 x 42mm

Suitable Interface		
085613	24V DC Safety Relay 3 N/O & 1 N/C with screw terminal	-

NM Series: Re-Enforced Thermoplastic Safety Gate Switch



Features

- Mini-housing for light duty applications
- Other contact configurations available on request
- 5 actuating directions
- IP67 rated
- Switching 24V DC

Product Code	Description	Dimensions (L x W x D)
084454	Safety Interlock 2 N/C & 1 N/O Contact	113 x 25 x 25mm

NM Accessories

Product Code	Description
074078	Straight Actuator

Suitable Interface	
085613	24V DC Safety Relay 3 N/O & 1 N/C with screw terminal

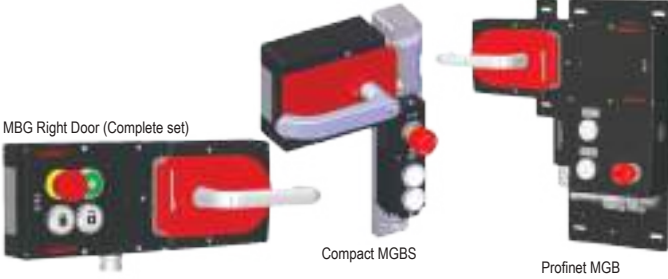
NZ.VS Gate Safety Switch

	Product Code	Description	Dimensions
	082122	NZ.VZ, 2NC + 2NO, M20 gland entry, Gate Safety Switch	115 x 32 x40mm
	082123	NZ.VZ, 3NC + 2NO, M20 gland entry, Gate Safety Switch	115 x 42 x40mm
	084905	NZ.VZ, 2NC, M12, 5-pin, Gate Safety Switch	115 x 42 x40mm
	24V DC switching		

NZ.VZ Accessories

						
Product Code	016849	057734	057735	076250	096617	096614
Description	NZ.VS Actuator	Right Hinged Bolt, handle steel	Left Hinged Bolt, handle steel	Replacement head	Plastic left and right handles, Actuator	Bolt must be ordered with 096617

MGB Gate Safety Switch

		Features - Auxiliary release - Connection via cable entry, M20x 1.5 or plug connector - Plug connector connection, either HC26, M23 (RC18) or M12, 12-pin - Operation of guard locking via IMP as control input on PLC (only 3mA) - Monitoring outputs OD = ON when door is closed. OT = Bolt tongue inserted into the evaluation module (in case of guard locking devices ready for control of the solenoid. In case of interlocking devices corresponds to safety outputs) OL = Guard locking solenoid locked in position (in case of guard locking devices corresponds to safety outputs) - OI = Diagnostics, there is a fault
MBG Right Door (Complete set)		
Compact MGBS		
Profinet MGB		

Standard MGB

Product Code	Description
115671	MBG Right Door (Complete set) guard locking by spring force with 4 controls or indicators, Emergency stop, RC18 Connector
115672	MGB Left Door (Complete set) guard locking by spring force with 4 controls or indicators, Emergency stop, RC18 Connector
121191	MGB Right Door (Complete set) guard locking by solenoid force with 3 controls or indicators, Emergency stop, RC 18 Connector
121195	MGB Left Door (Complete set) guard locking by solenoid force with 3 controls or indicators, Emergency stop, RC 18 Connector

Product Code	Description
109491	Stainless Steel mounting plate. Left or Right hinged door compatible
077025	Connector Only. RC18EF (19 pin)
094310	Spare crimp pins for 077025
110304	10m cable for MGB

Compact MGBS

Product Code	Description
161564	MGBs suitable for doors hinged on the left. M23 connector, Emergency stop, 2 push buttons
161563	MGBs suitable for doors hinged on the right. M23 connector, Emergency stop, 2 push buttons

Accessories MGBS

Product Code	Description
092898	10m cable for MGBS

Profinet MGB

Product Code	Description
121856	MGB Right Door (Complete set) guard lock monitoring with 2 controls, Emergency stop, PUSH PULL connector
121852	MGB Left Door (Complete set) guard lock monitoring with 2 controls, Emergency stop, PUSH PULL connector

Non-Contact Safety Switches



Features

- RF transponder technology
- Individually coded sensor heads
- Re-teachable codes
- Single, double and quad sensor head controller available
- Cable and connector versions

Sensor Head

Product Code	Description
077806	Sensor Head with 5m Cable
077807	Sensor Head with 10m Cable
084682	Sensor Head with 15m Cable
077715	Sensor Head with M8 Connector

Actuator

Product Code	Description
071840	Actuator Cube-shaped design 42 x 25mm

Cables to Suit 077715

Product Code	Description
084762	Connection cable PUR with plug connector M8, 3-pin, 5m
084763	Connection cable PUR with plug connector M8, 3-pin, 10m
084764	Connection cable PUR with plug connector M8, 3-pin, 15m

CES Controllers

Product Code	Description
105139	Controller for 1x CES, 1 channel
105140	Controller for 2x CES, 2 channel
105141	Controller for 4x CES, 4 channel
Suitable Interface	
085613	24V DC Safety Relay 3 N/O & 1 N/C with screw terminal

TP Gate Safety Switch

The TP safety switches ensure guards remain closed until hazardous movements, such as a moving spindle, stop. They also prevent guards from opening during a process. Their slim design makes them ideal for mounting on profile rails, and the reinforced plastic housing is well-suited for automation, assembly, and handling technologies.

TP Safety Switch Plastic | Solenoid Activated



Product Code	Description
084325	Slow-action switching contact 1 NC + 1 NO, Open-circuit current principle, guard locking by applying voltage to the guard locking solenoid. Release by spring force. AC / DC 24V Solenoid
084295	Slow action switching contact 1 NC + 1 NO, Closed-circuit current principle, guard locking by spring force. Release by applying voltage to the guard locking. AC / DC 24V Solenoid

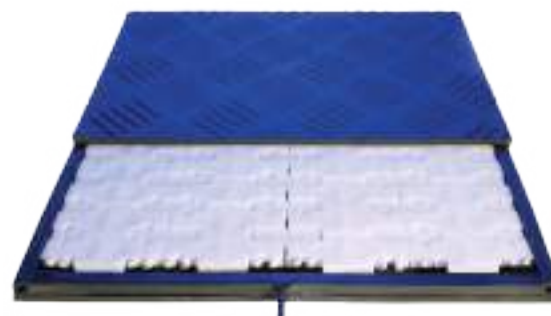
TP Accessories

Product Code	Description
059226	Actuator for TP switches
084430	Steel bolt for doors hinged on the right (TP)
084432	Steel bolt for doors hinged on the left (TP)
093752	Two LEDs (green / red). For retrofitting safety switches TP with an LED indicator. Operating voltage AC / DC 24V
096616	Plastic left & right handle with actuator

Pressure Sensitive Safety Mats



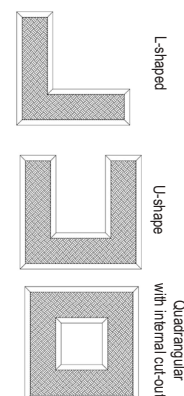
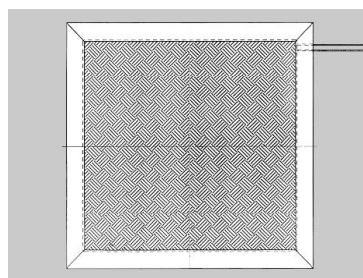
Haake's Safety Mats HSM® are built up of mechanically opening N/C contacts connected in series, in the form of a contact mat – similar to the unique Haake Contact Chain®. When stepping on the Safety Mat, the wedge elements separate at least one of the contact elements. The current circuit is broken. Since a circuit interruption signal is directly available, transformation of the output signal is not required. This signal is fed to the safety relay unit already needed for the E-stop button.



Custom designs of the Safety Mat Manufactured upon request.

Safety Mat HSM® with mechanically opening contacts

- No additional control unit required
- Wired directly to existing e-stop relay unit
- Suitable for harsh environments
- Different surface materials depending on application
- Dimensions to customers' specification
- Supply of ready-to-use safety mats including machined ramp trim
- BG approved



Please send us your physical size requirement and terminating cable length (most shapes possible)

Safety Edges



The protection of people in everyday life is Gelbau's obligation and commitment. Due to an uncompromising concentration on safety engineering and the realization of customer's requests, Gelbau's closing edge systems set safety standards for more than 40 years. Today, Gelbau is a leading manufacturer and supplier of switching strips worldwide.

Product Code	Description	Type	Colour	Material	Profile Foot	Switching Head	Sealing Lip	Connection Types
3100.1610N *	Safety edge	016.10N	Black	NBR	T-foot	Insulated NO	NO	AAS/AOS (standard)
3100.1610N	2m Safety edge	016.10N	Black	NBR	T-foot	Insulated NO	NO	AAS/AOS (standard)

*add length in mm

Connectors



Product Code	Description
3050.1303N	End cap with circumferential edge
3031.1306B	Electrical termination switching strip with resistor
3020.1301B	Connection cable 1m (open end)
3020.1305B	Connection cable 5m (open end)
3020.1306B	Connection cable 10m (open end)
2x End caps 1x termination switch + 1x connection cable needed per length selection.	

Accessories



Product Code	Description
3057.0012	Glue for sealing end caps (206)
0100.3084	Scissors for cutting safety edges
3045.1212	Aluminum (for mounting safety edge) 2 meter
3004.5240	Safety evaluator (250V AC / 24V DC), 1 switching strip, supply 230V AC, 1 output with 2 relays each with 1 N/C
3004.5249	Safety evaluator (250V AC / 24V DC), 1 switching strip, supply 20-60V AC / DC, 1 output with 2 relays each with 1 N/C

Light Grids: Type 2 & Type 4 Body Protection



Product Code	Description	Type	Beams	Muting	Height Of Protected Field
630804	PSEN op2b-2-050/1	2	2 beams	Yes	500mm
630805	PSEN op2b-3-080/1	2	3 beams	Yes	800mm
630806	PSEN op2b-4-090/1	2	4 beams	Yes	900mm
630807	PSEN op2b-4-120/1	2	4 beams	Yes	1200mm
630800	PSEN op4b-2-050/1	4	2 beams	Yes	500mm
630801	PSEN op4b-3-080/1	4	3 beams	Yes	800mm
630802	PSEN op4b-4-090/1	4	4 beams	Yes	900mm
630803	PSEN op4b-4-120/1	4	4 beams	Yes	1200mm
Comes as a set and includes brackets. No blanking No cascading IP65 24V DC					

Cables



Product Code	Description	Beams
630302	PSEN op cable axial M12 4-pole 10m	TX Supply Voltage (Open ended cables)
630301	PSEN op cable axial M12 4-pole 5m	TX Supply Voltage (Open ended cables)
630296	PSEN op cable axial M12 4-pole 30m	TX Supply Voltage (Open ended cables)
630311	PSEN op cable axial M12 5-pole 5m	TX & RX Muting Sensor Connection (Open ended cables)
630312	PSEN op cable axial M12 5-pole 10m	TX & RX Muting Sensor Connection (Open ended cables)
630297	PSEN op cable axial M12 5-pole 30m	TX & RX Muting Sensor Connection (Open ended cables)
540320	PSEN op cable axial M12 8-pole 5m	RX Supply Voltage & OSSD (Open ended cables)
540321	PSEN op cable axial M12 8-pole 10m	RX Supply Voltage & OSSD (Open ended cables)
540326	PSEN op cable axial M12 8-pole 30m	RX Supply Voltage & OSSD (Open ended cables)

Accessories



Product Code	Description	Information
630820	PSEN op2.1 L-Muting Set	Sensing device L muting arm with passive reflector unit and matching bracket on light curtain PSEN opXX-xx-xxx/1
630821	PSEN op2.2 T-Muting Set	Sensing device T muting arm with passive reflector unit and matching bracket on light curtain PSEN opXX-xx-xxx/1
630772	PSEN op bracket turnable (kit)	Mounting bracket for PSEN op4F/H.../1 and PSEN op2H.../1, rotatable version (4 pieces)
630327	PSEN op Bracket kit antivibration	Rubber buffered angle support for PSENopt

Light Grids: Type 2 Hand Protection



Product Code	Description	Type	Muting	Resolution	Height Of Protected Field
630720	PSEN op2H-s-30-015/1	2	No	30mm	150mm
630721	PSEN op2H-s-30-030/1	2	No	30mm	300mm
630722	PSEN op2H-s-30-045/1	2	No	30mm	450mm
630723	PSEN op2H-s-30-060/1	2	No	30mm	600mm
630724	PSEN op2H-s-30-075/1	2	No	30mm	750 mm
630725	PSEN op2H-s-30-090/1	2	No	30mm	900mm
630726	PSEN op2H-s-30-105/1	2	No	30mm	1050mm
630727	PSEN op2H-s-30-120/1	2	No	30mm	1200mm
630728	PSEN op2H-s-30-135/1	2	No	30mm	1350mm
630729	PSEN op2H-s-30-150/1	2	No	30mm	1500mm
630730	PSEN op2H-s-30-165/1	2	No	30mm	1650mm
630731	PSEN op2H-s-30-180/1	2	No	30mm	1800mm
Comes as a set and includes brackets. IP65 24V DC 30mm Resolution					

Cables



Product Code	Description
630302	TX PSEN op cable axial M12 4-pole 10m, supply voltage, open end
630301	TX PSEN op cable axial M12 4-pole 5m, supply voltage, open end
630296	TX PSEN op cable axial M12 4-pole 30m, supply voltage, open end
630311	RX PSEN op cable axial M12 5-pole 5m, supply voltage and OSSD, open end
630312	RX PSEN op cable axial M12 5-pole 10m, supply voltage and OSSD, open end
630297	RX PSEN op cable axial M12 5-pole 30m, supply voltage and OSSD, open end

Accessories



630772

Product Code	Description	Information
630772	PSEN op bracket turnable (kit)	Mounting bracket for PSEN op4F/H.../1 and PSEN op2H.../1, rotatable version (4 pieces)
630327	PSEN op Bracket kit antivibration	Rubber buffered angle support for PSENopt

Light Curtains: Robust Hand Protection Type 4



Product Code	Description	Type	Resolution	Height Of Protected Field
632060	PSEN opII4H-s-30-015	4	30mm	150mm
632061	PSEN opII4H-s-30-030	4	30mm	300mm
632062	PSEN opII4H-s-30-045	4	30mm	450mm
632063	PSEN opII4H-s-30-060	4	30mm	600mm
632064	PSEN opII4H-s-30-075	4	30mm	750mm
632065	PSEN opII4H-s-30-090	4	30mm	900mm
632066	PSEN opII4H-s-30-105	4	30mm	1050mm
632067	PSEN opII4H-s-30-120	4	30mm	1200mm
632068	PSEN opII4H-s-30-135	4	30mm	1350mm
632069	PSEN opII4H-s-30-150	4	30mm	1500mm
632070	PSEN opII4H-s-30-165	4	30mm	1650mm
632071	PSEN opII4H-s-30-180	4	30mm	1800mm

Comes as a set and includes brackets. | No muting, blanking or cascade functions.

Light Curtains: Finger Protection Type 4



Product Code	Description	Type	Resolution	Height Of Protected Field
632080	PSEN opII4F-s-14-015/1	4	14mm	150mm
632081	PSEN opII4F-s-14-030/1	4	14mm	300mm
632082	PSEN opII4F-s-14-045/1	4	14mm	450mm
632083	PSEN opII4F-s-14-060/1	4	14mm	600mm
632084	PSEN opII4F-s-14-075/1	4	14mm	750mm
632085	PSEN opII4F-s-14-090/1	4	14mm	900mm
632086	PSEN opII4F-s-14-105/1	4	14mm	1050mm
632087	PSEN opII4F-s-14-120/1	4	14mm	1200mm
632088	PSEN opII4F-s-14-135/1	4	14mm	1350mm
632089	PSEN opII4F-s-14-150/1	4	14mm	1500mm
632090	PSEN opII4F-s-14-165/1	4	14mm	1650mm
632091	PSEN opII4F-s-14-180/1	4	14mm	1800mm

Comes as a set and includes brackets. | No muting, blanking or cascade functions.

Cables



Product Code	Description
630311	RX & TX PSEN op cable axial M12 5-pole 5m, supply voltage and OSSD, open end
630312	RX & TX PSEN op cable axial M12 5-pole 10m, supply voltage and OSSD, open end
630297	RX & TX PSEN op cable axial M12 5-pole 30m, supply voltage and OSSD, open end

Accessories

632015



Product Code	Description	Information
632015	PSEN opII Bracket Kit	Mounting kit for fixing the light curtains of the PSEN opII series
632018	PSEN opII Testpiece F 14mm	Test rod for finger resolution light curtains 14mm
632019	PSEN opII Testpiece H 30mm	Test rod for hand resolution light curtains 30mm

Above products are included with Light Curtains. | Ordered as spares.

Mirror Columns



Product Code	Description	Information
632007	PSEN opII mirror column-060 Set	Set includes mirror column "PSEN opII Mirror Column-060" with mirror length 600mm, mounting screw and "PSEN opII adjustable base unit". For use with light curtains of the PSENopt and PSENopII range with a protection field of up to 450mm.
632008	PSEN opII mirror column-090 Set	Set includes mirror column "PSEN opII Mirror Column-090" with mirror length 900mm, mounting screw and "PSEN opII adjustable base unit". For use with light curtains of the PSENopt and PSENopII range with a protection field of up to 750mm.
632009	PSEN opII mirror column-120 Set	Set includes mirror column "PSEN opII Mirror Column-120" with mirror length 1200mm, mounting screw and "PSEN opII adjustable base unit". For use with light curtains of the PSENopt and PSENopII range with a protection field of up to 1050mm.
632010	PSEN opII mirror column-165 Set	Set includes mirror column "PSEN opII Mirror Column-165" with mirror length 1650mm, mounting screw and "PSEN opII adjustable base unit". For use with light curtains of the PSENopt and PSENopII range with a protection field of up to 1500mm.
632011	SEN opII mirror column-195 Set	Set includes mirror column "PSEN opII Mirror Column-195" with mirror length 1950mm, mounting screw and "PSEN opII adjustable base unit". For use with light curtains of the PSENopt and PSENopII range with a protection field of up to 1800mm.
Mirror column sold per piece / each.		

Safety Relays: Sigma Relays



Product Code Screw Terminal	Product Code Spring Terminal	Description	Inputs
750102	751102	PNOZ s2 24V DC 3 N/O 1 N/C	3 N/O 1 N/C
750103	751103	PNOZ s3 24V DC 2 N/O	2 N/O
750104	751104	PNOZ s4 24V DC 3 N/O 1 N/C	3 N/O 1 N/C
750105	751105	PNOZ s5 24V DC 2 N/O 2 N/O T	2 N/O 2 N/O T
750106	751106	PNOZ s6 24V DC 3 N/O 1 N/C	3 N/O 1 N/C
750107	751107	PNOZ s7 24V DC 4 N/O 1 N/C	4 N/O 1 N/C
750109	751109	PNOZ s9 24V DC 3 N/O T 1 N/C T	3 N/O T 1 N/C T

Configurable Safety Relays / Controller



Product Code	Description	Inputs	Terminals Product Code	Outputs	Relay
772100	PNOZ m B0	20 (Safe)	750008	4 (Safe)	MULTI 2
772120	PNOZ m EF PDP Link Module	NA	793538	NA	MULTI 2
772130	PNOZ m ES ETH	128 (Virtual I/O)	NA	128 (Virtual I/O)	MULTI 2
772138	PNOZ m ES Profinet	128 (Virtual I/O)	793542	128 (Virtual I/O)	MULTI 2
772140	PNOZ m EF 16DI	16 (Safe)	750004	0	MULTI 2
772142	PNOZ m EF 8DI4DO	8 (Safe)	750004	4 (Safe)	MULTI 2
772143	PNOZ m EF 4DI4DOR	4 (Safe)	750004	4 (Safe Relay)	MULTI 2
773010B	License for multi range configurable controllers	-	-	-	-
Terminals are ordered separately and sold in packs of 4 pieces.					

Accessories



Product Code	Description
750008	PNOZ s Set1 screw terminals 45mm
750004	PNOZ s Set screw terminals 22.5mm
779211	PNOZmulti Chipcard 1 piece 32kB
773616	PDP67 F 8DI ION PT Decentralised input module in IP67 for PNOZmulti, M12 plastic thread.



Machine Vision & Identification

Cognex machine vision tools enable companies around the world to improve assembly verification, eliminate defects, automate production and identify challenging barcodes reliably across a wide range of industries and applications. Machine vision from Cognex is an essential element of the automation system. No other aspect of the production line captures more information or is more valuable in assessing products and finding defects.



Machine Vision Systems

In-Sight 2000



The In-Sight 2000 vision sensors perform simple pass/fail applications that help ensure products and packaging manufactured on an automated production line are error-free and meet stringent quality standards.

2D Vision Systems



Cognex In-Sight 2D vision systems are unmatched in their ability to inspect, identify, and guide parts. These self-contained, industrial-grade vision systems combine a library of advanced vision tools with high-speed image acquisition and processing.

IS 2800



The In-Sight 2800 vision system combines edge learning technology with traditional rule-based vision to solve a range of error-proofing tasks. From presence/absence detection to sortation and character reading applications, this fully integrated vision system offers an easy-to-use solution for automating inspections.

3D Laser Profilers



Powered by AI, the In-Sight L38 3D vision system enables reliable inspections by combining embedded AI, advanced optics, and proven vision technology to capture detailed images and assess features against pass/fail thresholds.

Image-based Barcode Readers

Fixed-Mount Barcode Readers



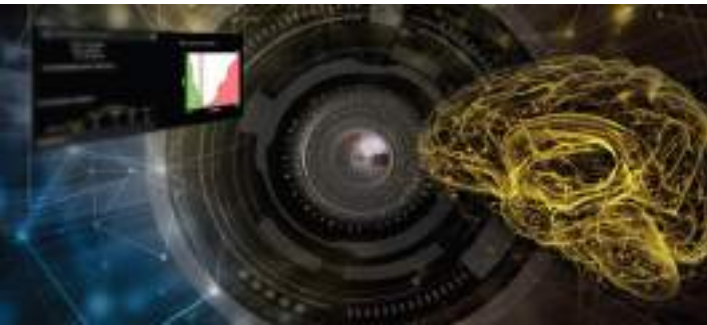
Compact but powerful DataMan barcode readers offer unmatched code reading performance with patented 1D and 2D code reading algorithms. The flexible options, easy setup, and quick deployment make them ideal for the most demanding industrial applications.

Handheld Barcode Readers



Versatile DataMan barcode readers provide best-in-class performance for 1D, 2D, and DPM codes, where ruggedness and speed are critical to success. A range of field-changeable communication options ensure these readers are ready to meet your application requirements.

Deep Learning



VisionPro ViDi is the first set of powerful, field-tested, optimized, and proven inspection technology based on state-of-the-art machine learning algorithms. VisionPro ViDi from Cognex is easy to train and quick to deploy and has been designed specifically with manufacturing applications in mind that are too difficult, complex, or expensive for traditional rule-based machine vision systems. The software uses advanced deep learning tools to simplify the development of highly variable vision applications.

Warehousing and Distribution

Cognex vision systems optimise warehousing and distribution by automating barcode reading, sorting, and label verification, improving accuracy and efficiency in logistics operations while ensuring traceability across the supply chain.

Pallet Scanning



Barcode readers scan pallet labels on arrival

Automated Sorting



Barcode readers sort packages and track goods through a facility

Food and Beverage

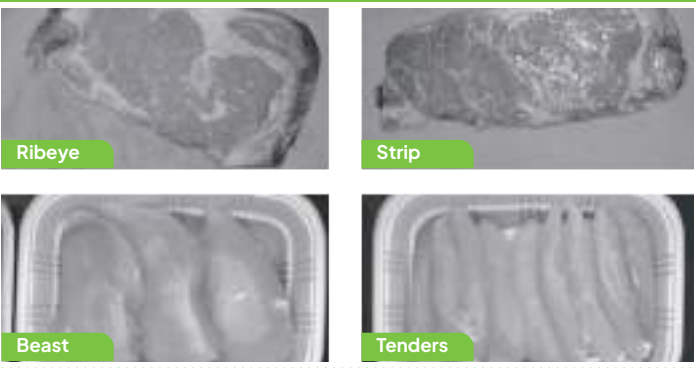
Cognex solutions are designed to sort, inspect, and identify wheels and tyres. Robust, high-speed wheel identification systems reliably read codes regardless of placement and orientation. Optical character recognition enables tyre manufacturers to read even deformed characters accurately. Patented vision tools recognise tread patterns and handle variations in position, ensuring that manufacturers assemble the correct wheel to a vehicle and track it throughout the supply chain.

Coffee Bean Inspection



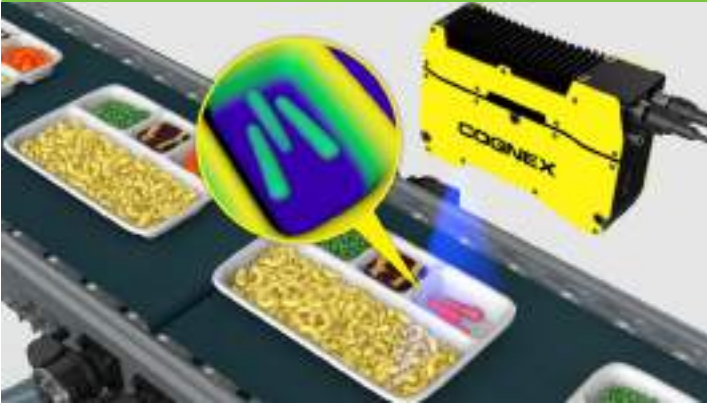
AI-based solutions classify coffee beans to ensure the right varieties are used in blends

Classifying Meat For Sortation



AI-based vision systems identify and classify cuts of poultry or beef to prevent mislabeling

Portioning Inspection



3D displacement technology inspect portion sizes prior to packaging

Beef Or Pork Grading\Inspection



AI-enabled technology inspects color and calculates lean to fat content

Logistics

Cognex vision systems optimise warehousing and distribution by automating barcode reading, sorting, and label verification, improving accuracy and efficiency in logistics operations while ensuring traceability across the supply chain.

Automated Inbound Receiving



Automated inbound receiving uses hands-free barcode stations or modular vision tunnels to read package codes from various angles and orientations, reducing rework and costs.

Estimating Shipping Costs

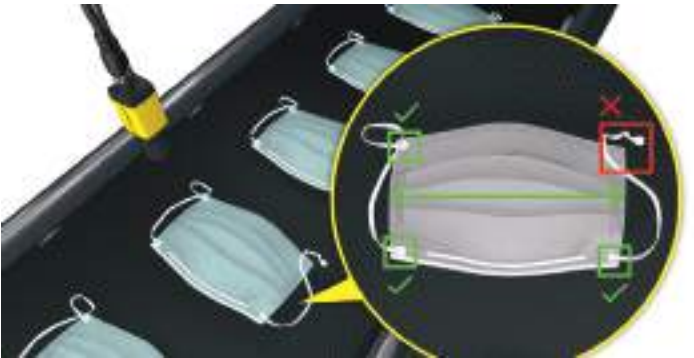


The 3D-A5000 Dimensioning System captures and reports dimensional and volumetric data, enabling operators to select optimal packaging and estimate shipping costs more accurately.

Pharmaceutical and Medical

Cognex vision systems enhance pharmaceutical and medical manufacturing by ensuring product quality, tracking, and defect detection using advanced OCR and barcode technology

Face Mask Quality Control Inspection



Cognex AI-powered technology inspects face masks for random defects, such as rips, stains, and stitching errors, ensuring compliance with rigorous quality standards.

Challenging OCR Code Reading



AI-based vision systems identify and classify cuts of poultry or beef to prevent mislabeling

Powertrain System Applications

Machine vision confirms the presence of critical powertrain components such as clutch packs, carriers, constant velocity joints, valve bodies, pistons, seals, and snap rings to maximise quality and minimise recalls. Manufacturers use Cognex vision technology to ensure parts are assembled correctly, conform to strict tolerances, and are traced throughout the supply chain.

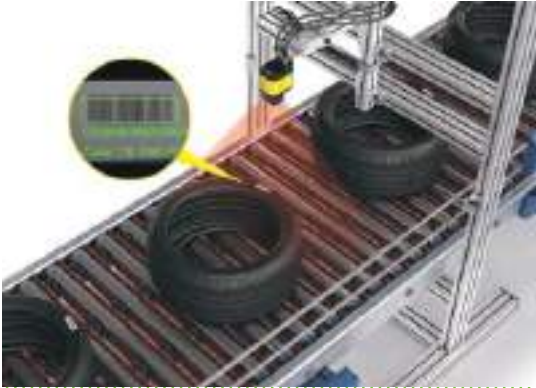
Transmission Module Identification	Transmission Assembly Verification
	
Vision systems identify transmission module components prior to assembly.	Vision sensors inspect that the transmission has been assembled correctly.

Tire And Wheel Systems Applications

Cognex solutions are designed to sort, inspect, and identify wheels and tyres. Robust, high-speed wheel identification systems reliably read codes regardless of placement and orientation. Optical character recognition enables tyre manufacturers to read even deformed characters accurately. Patented vision tools recognise tread patterns and handle variations in position, ensuring that manufacturers assemble the correct wheel to a vehicle and track it throughout the supply chain.

Tire Inspection	Wheel and Tire Assembly
	
3D laser displacement sensors verify treads' critical dimensions.	Machine vision systems identify wheels by patterns and match them to tires.

Tire Identification and Sorting

	
3D laser displacement sensors identify tires by DOT code as part of an automated tire sorting system.	Image-based barcode readers read codes on tires regardless of orientation or line speed.

Chassis Systems Applications

2D and 3D vision systems accurately gauge chassis parts and inspect and verify assembled vehicle doors, trim, and bodies. 3D vision systems also help chassis manufacturers automate racking, de-racking, and inspection of body panels in supply racks. They detect part defects in the racks before defective parts are picked up by a robot, preventing defective parts from being welded together.

Gap and Flush Inspection



Laser profilers assess the height and alignment of assembled vehicle doors and bodies.

Wheel Pre-Assembly Inspection



Vehicle sensors inspect steering wheel knuckles prior to module assembly

Wheel and Lug Nut Torquing



Machine vision systems guide robotic arms to help locate and properly torque a wheel's lug nuts.

Kitting and Sorting



Barcode readers verify that a kit contains the correct parts

Packaging Inspection

Packaging affects consumer perception of product quality, safety, and value. Cognex vision systems inspect food packaging to ensure it is correctly assembled, tamper-proof, defect free, and complete so manufacturers are assured that only the highest quality products reach customers.

- Avoid unsightly, damaged packaging
- Defend against contamination and spills
- Prevent returns from wholesalers and retailers
- Preserve brand reputation

Identify Torn, Skewed, Incorrect Or Missing Labels



Verify Tamper Seal Integrity



Check For Date Or Batch Code Presence



Ensure Label Print Integrity



Assembly Verification

Identifying assembly defects early saves significant time and money, particularly when a single failure can impact an entire batch. Vision-guided quality checks ensure completeness and consistency, while robotic pick-and-place capabilities accelerate and error-proof the transition from production to packaging.

- Detect defects and missing items
- Verify completeness and product integrity
- Enable vision-guided robotics
- Improve pick times and accuracy

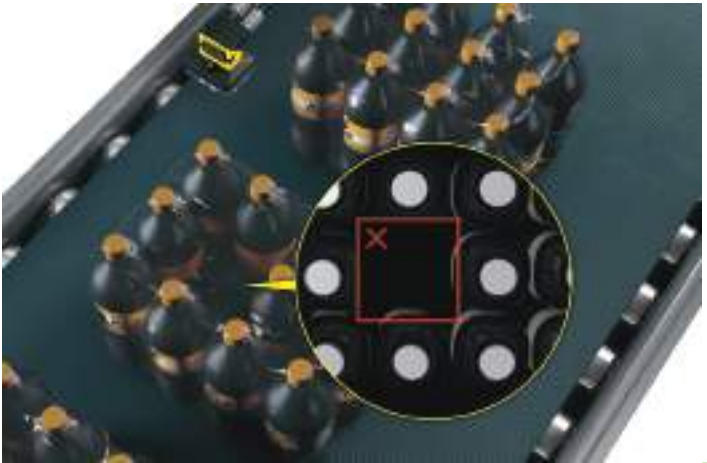
Verify Cap Height



Ensure Accurate Liquid Fill Levels



Detect Missing Items



Enable Vision-Guided Robotic Pick And Place



VISOR® V20 Allround Professional, Medium Field Of View



- All evaluations ("detectors") of object sensors and code readers combined in one device
- Highly accurate evaluation via a 1.5-megapixel chip
- Real-world engineering units and robot coordinates at the click of a mouse
- Precise position determination: X/Y position and orientation
- Detection of height differences in the pseudo-height image using multishot technology
- User-friendly configuration and viewer software with graded user permissions and online help

Optical Data

Product Code	Resolution	Pixel Size	Adjustment Range	Minimum Field of View, Y x X
632-91008	V20: 1440 x 1080	3.45 x 3.45	25mm to infinity	10 x 8mm

Electrical Data

Operating Voltage	Outputs	Interfaces	Inputs/Outputs
18...30DC	PNP / NPN (switchable)	Ethernet (LAN), EtherNet/IP, PROFINET, SensoWeb, Service Port	2 inputs, 2 outputs, 6 selectable inputs/outputs

Mechanical Data

Dimensions	Enclosure Rating	Ambient Temperature
80 x 45 x 45mm (without plug)	IP 67 / IP65	0... +50 °C

VISOR® Robotic +Z Advance



- **Distance:** Distance determination of the VISOR® to a measuring object
- **Pattern matching, contours, target mark 3D:** Teach-in and detection of patterns, contours and 3D poses
- **Caliper:** Distance between edges
- **Contrast:** Evaluation of the contrast
- **Result processing:** Text, Math: Monitoring and calculating detector results
- Position tracking X/Y and orientation of the target
- **BLOB, gray threshold, brightness:** Evaluation of brightness

Optical Data

Product Code	Resolution	Pixel Size	Target Laser	Minimum Field of View, Y x X
632-91183	HDV2	3.45 x 3.45	Laser red (655 nm)	10 x 8mm

Electrical Data

Warm-up Time	Typical Current Draw	Ethernet Transmission Rate	Readiness Delay	Type of Voltage Source
20min	350 mA	100 Mbit/s	≤ 16,000 ms	Class 2 power supply unit

Mechanical Data

Protection Class	Connection Details	Front Panel Material	Housing Material	Vibration and Shock Resistance
IP 65, IP 67	Supply: 12 pins, M12x1, metal, plug LAN: 4 pins, M12x1, metal, socket	PMMA	Aluminum	EN 60068-2-6, EN 60068-2-27

VISOR® XE Object AI | New standards in industrial image processing



- VISOR® XE Object AI: Powerful capabilities for presence and completeness checks, position control, counting of objects, part recognition and for simple measuring and quality control tasks
- **Four times faster:** higher processing speed than previous models.
 - **AI power:** eight times faster classification for more precise results.
 - **Simple system integration:** additional communication plug for simplified installation.
 - **Maximum compatibility:** work seamlessly with existing VISOR® software and accessories.
 - **Universally applicable:** versatile for multiple tasks, e.g. as a code reader and for robot-guided applications.

Optical Data

Product Code	Resolution	Pixel Size	Target Laser	Minimum Field of View, Y x Y
637-91118	SPXGA	3.00 x 3.00	Laser red (655 nm)	13.5 x 10.1mm

Electrical Data

Warm-up Time	Typical Current Draw	Ethernet Transmission Rate	Readiness Delay	Type of Voltage Source
-	350 mA	100 Mbit/s	≤ 16,000 ms	Class 2 power supply unit

Mechanical Data

Protection Class	Connection Details	Front Panel Material	Housing Material	Vibration and Shock Resistance
IP 65, IP 67	Supply: 12 pins, M12x1, metal, plug LAN: 4 pins, M12x1, metal, socket	PMMA	Aluminum	EN 60068-2-6, EN 60068-2-27

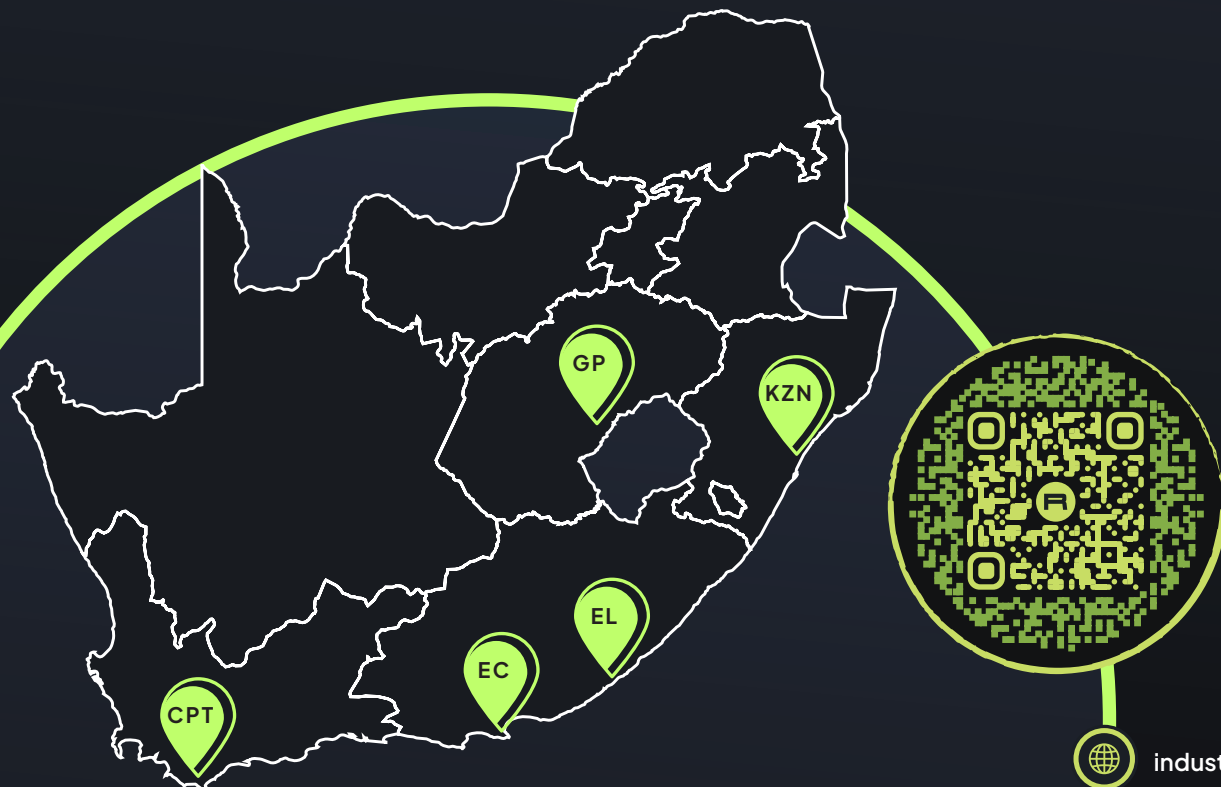
Accessory Bracket for VISOR® Camera Series



Product Code	Description	Material	Suitable
543-11024	Mounting hinge with 3 axes and drilled hole for mounting rod.	Anodised aluminium	VISOR®

Get in Touch

We are here to assist you with any inquiries or support you may need. Whether you have questions about our industrial automation products, require technical assistance, or would like to learn more about our innovative solutions, please feel free to contact us.



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- Port Elizabeth, Eastern Cape
- East London, Eastern Cape



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