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Industrial Automation Solutions Catalogue

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We are the leading industrial automation solutions supplier to the manufacturing sector and related system integrators in South Africa. We import and distribute the latest premium technology from around the world to provide a complete industrial technology basket. Dynamic and passionate, we understand the importance of innovation, cutting-edge technology, customer satisfaction and technical support. Customers can expect short lead times as we maintain a large stock holding and exclusive rights to leading automation technologies. Ingwe Industrial is a multi-source vendor for system integrators, OEMs and end-users.



Control Panel

- » Industrial Communication
- » Thermal Management
- » Circuit Protection
- » Industrial Controls
- » Power Supplies
- » Motors & Drives
- » Buttons Switched & Drives
- » Enclosures
- » Automation



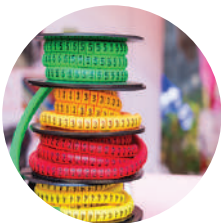
Sensing & Switching

- » Switching Sensors
- » IO Systems
- » Connectivity



Power Solutions

- » UPS
- » Power Factor
- » Harmonics
- » Batteries



Cable Solutions

- » Data Cables
- » Power & Control Cables
- » Industrial Connectors
- » Conduit & Drag Chain
- » Marking Systems
- » Cable Glands



Machine Vision & Identification

- » RFID
- » 2D Vision Systems
- » 3D Vision Systems
- » Barcode Readers
- » Vision Software
- » Deep Learning
- » Lighting



Safety Automation

- Safety Connection Systems
- Programmable Controllers
- Presence Sensing Safety Controlle
- » Safety Switches
- » Safety Relays

Control panel

Supplier	Category	Index	Section	Page
IPFLEX	MMI, HMI and SCADA	-	A	1-2
RITTAL	Enclosures	Steel wall mounted	A	3
		Steel terminal box hinged lid	A	4
		Steel terminal box screw lid	A	5
		Steel floorstanding	A	6
		Steel PC enclosure	A	7
	Panel heating and cooling	Fans & filters	A	8
		Airconditioners	A	9
		LED	A	9
	Enclosures accessories	Handles & locks	A	10
		Cable management	A	10
FLEXBOX	Enclosures	Steel wall mounted	A	11
IDE	Enclosures	Plastic boxes	A	12
	Distribution board	Plastic surface mount	A	12
	Commercial distribution board	Steel wall mount	A	13-16, 18-20
		Steel floorstanding	A	17
	Industrial plugs & sockets	-	A	21-23
ELFIN	Enclosures	Pushbutton	A	24
	Stations	2 hand stations	A	24
	Enclosures	Pushbutton	A	25
		Die cast, Non-painted	A	25
ALLBRO	Enclosures	SMC wall mount	A	26
		Plastic boxes	A	27
STEGO	Panel heating and cooling	Enclosure LED lighting	A	28
		Compact Thermostat	A	28
		Panel socket & door switches	A	29
LINKWELL	Power distribution and terminals	Busbar holders	A	30
		Distribution blocks	A	31
	Panel heating and cooling	Fans & filters	A	32
	Power distribution and terminals	Power terminals	A	33
FLEXGEAR	Switches	Rotary enclosed changeover switches	A	34
PRONUTEC	Switches	Fuse switches	A	34
NOARK	Circuit breakers	DC Miniature CB DIN	A	34
CITEL	Surge protection	-	A	35-37
MITSUBISHI	Ac speed drives		A	38
	PLCs		A	39

Control panel

Supplier	Category	Index	Section	Page
TELERGON	Isolators	AC	A	40-41, 45
	Switches	Changeover switches	A	42-43
		Bypass switches	A	44
		Fuse switches	A	45
TOSIBOX	Secure, intelligent communications and connectivity		A	46
HARTING	Industrial connectors	Heavy duty multipole connectors	A	47-49
MURRELEKTRONIK	Industrial connectors	Heavy duty multipole connectors	A	50
GIC	Timers	-	A	51-53
	Hours meters & counters	-	A	53
	Converters & signal transducers	-	A	54
	Voltage monitoring	-	A	55
	Temperature controllers	-	A	56
	Three phase indicator	-	A	57
	Connection-technology	Power supplies	A	57
WEIDMULLER	Terminals	Feed through terminals	A	58-64
	Relays	AC & DC DIN mount	A	65-66
	Marking, printing and Labelling		A	67-70
ONKA	Panel and wiring accessories	Slotted trunking	A	71
		DIN rail	A	71
		Ferrules (bootlace)	A	71
		Terminal blocks (screw)	A	72-74
WERMA	Indicators and audible signals	Tower lights (stack lights)	A	75-77
		Traffic lights	A	78
		Sounders & buzzers	A	78
		Mini beacon	A	79
SIEMENS	Industrial control	Manual starters	A	80
		Contactors	v	81-82
		Pushbuttons, pilot lights & E-stops	A	83-85
	Circuit breakers	DIN	A	86
	Industrial control	Power supplies	A	87
	Plc's	S7-1200	A	87-89
	Industrial control	ET200 & I/O	A	90
	Plc's	S7-1500	A	91-93
	Industrial control	HMI's	A	94
		VSD's	A	94
SCHNEIDER	Relays and contactors	Control relays	A	95-96
		Contactors	A	95-96
		Manual starters	A	97
		Thermal overloads	A	100
	Circuit breakers	Moulded	A	101-106
		Miniature	A	106-110
	Push button and pilot lights	Pushbuttons, pilot lights, E-stops & Selectors	A	110-115

Cable solutions

Supplier	Category	Index	Section	Page
FLEXKABEL	Cables and panel wire	Control cable	B	1-4
		Profibus cable	B	4
	Flexible conduit, cable ducting and sleeves Cable glands	Steel conduit	B	11
		Polyamide glands	B	11
	Panel and wiring accessories	Vent plugs	B	12
LAPPKABEL	Cables and panel wire	Control cable	B	5-7
		Bus cable	B	7-8
	Glands	Glands (polyamide & steel)	B	8
	Cables and panel wire	Single flex (panel wire)	B	9-10
PFLITSCH	Panel and wiring accessories	Split gland & vent plug	B	12
	Flexible conduit, cable ducting and sleeves	Steel mini trunking	B	16-18
REIKU	Flexible conduit, cable ducting and sleeves	Flexible conduit (polyamide)	B	13-14
FAVIER	Flexible conduit, cable ducting and sleeves	Sleeving (Glass braided)	B	15
HEBOTEC	Cable routing and clips	EMC shield clamps & clips	B	19
		Cable & connector mounting clips	B	20
		Velcro cable management	B	20

Sensing & switching

Supplier	Category	Index	Section	Page
SICK	Industrial sensing and detection	Proximity switches	C	1-2
		Distance sensor	C	3
		Photo-electric sensor	C	3-4
		Reed switches	C	4
		Capacitive sensor	C	4
	Industrial measurement	Encoders	C	5
BALLUFF	Industrial sensing and detection	Proximity sensors	C	6-8
		Distance & photoelectric snors	C	9-10
	Industrial sensing and detection Industrial measurement	Reed switches	C	11
		Capacitive sensors	C	12
		Pressure transmitters	C	12
		Transducers	C	12

Sensing & switching

Supplier	Category	Index	Section	Page
MURRELEKTRONIC	Power supplies and electronics	Power supplies, EMC Filters	C	13
	Relays	Relays, timers, Opto couplers	C	14
	Intelligent communications and connectivity Industrial technology Connection technology	Ethernet switches, panel interfaces & splitter boxes	C	15-16
	Connection technology	Cordsets	C	16-20
		Bulk sensor cable & sensor3 connectors	C	21-23
		Valve connectors	C	24
EUCHNER	Switches	CAM switches	C	25
		Limit switches	C	25
		Single hole limit switches	C	25
LAP LASER	Optical position indication	Visual laser guides (lines, cross & point)	C	26-27

Safety automation

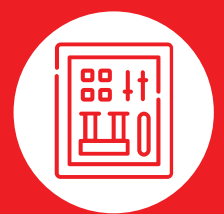
Supplier	Category	Index	Section	Page
TROAX	Mechanical machine guarding		D	1
SICK	Optical machine guarding & safety	Safety scanners	D	2-3
		Light curtains	D	3-5
INEXPECT	Radar machine guarding		D	6-7
EUCHNER	Switches	E-stop, deadman switches	D	8
		Rope switch	D	8
		Gate safety switch	D	9-11
		Safety limit switch	D	9
HAAKE	Safety edges and mats	Safety mats	D	12
GELBAU	Safety edges and mats	Safety edge	D	12

Machine vision & identification

Supplier	Category	Index	Section	Page
COGNEX	Machine vision Identification		E	1-4

Power solutions

Supplier	Category	Index	Section	Page
DELTA	UPS		F	1-11
	Power factor solutions		F	12-14



Control panel

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	DC 9—30V

Product Code

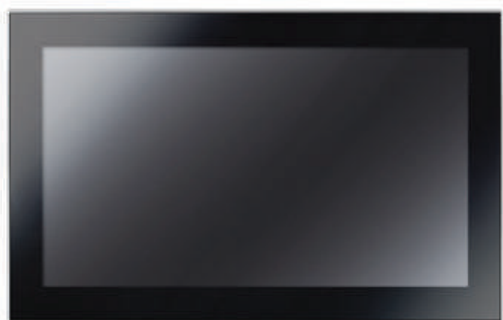
Description

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 / m ²
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**

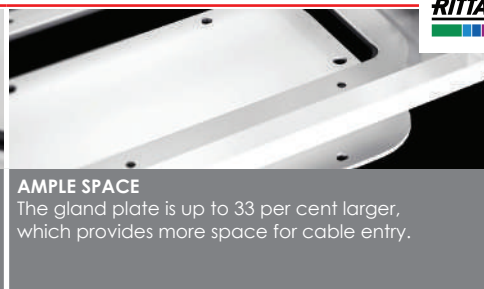
IPF-CTP6-12.1-256-8-A-10	12.1" Capacitive touch screen, 1024 x 768, i5-7200U CPU 2.5GHz, 8GB ram, 256GB SSD, 2x LAN, 2x RS232/485, 12-24V DC
IPF-CTP6-15.0-256-8-A-10	15" Capacitive touch screen, 1024 x 768, i5-7200U CPU 2.5GHz, 8GB ram, 256GB SSD, 2x LAN, 2x RS232/485, 12-24V DC
IPF-CTP6-17.0-256-8-A-10	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-CTP6-18.5-256-8-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

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

Thanks to the series-standard eyelet in the rear panel, the wall mounting bracket can be quickly screwed into place from the outside using a self-tapping screw – without a lock nut on the inside. The high protection category is maintained without any restrictions.

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 visibility and not product code. Without gland plate.					

Mounting Plates - KX (Galvanized 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 visability 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



Floor standing enclosures

Product Code	W x H x D	Sidewalls	100mm Plinths	200mm Plinths	Doors
8685.000	600 x 1800 x 500mm	8185.245	8640.002 + 8640.032	8640.022 + 8640.042	1
8885.000	800 x 1800 x 500mm	8185.245	8640.003 + 8640.032	8640.023 + 8640.042	1
8285.000	1200 x 1800 x 500mm	8185.245	8640.007 + 8640.032	8640.025 + 8640.042	2
8686.000	600 x 1800 x 600mm	8186.245	8640.002 + 8640.033	8640.022 + 8640.043	1
8886.000	800 x 1800 x 600mm	8186.245	8640.003 + 8640.033	8640.023 + 8640.043	1
8286.000	1200 x 1800 x 600mm	8186.245	8640.007 + 8640.033	8640.025 + 8640.043	2
8605.000	600 x 2000 x 500mm	8105.245	8640.002 + 8640.032	8640.022 + 8640.042	1
8805.000	800 x 2000 x 500mm	8105.245	8640.003 + 8640.032	8640.023 + 8640.042	1
8005.000	1000 x 2000 x 500mm	8105.245	8640.005 + 8640.032	8640.024 + 8640.042	2
8205.000	1200 x 2000 x 500mm	8105.245	8640.007 + 8640.032	8640.025 + 8640.042	2
8606.000	600 x 2000 x 600mm	8106.245	8640.002 + 8640.033	8640.024 + 8640.043	1
8806.000	800 x 2000 x 600mm	8106.245	8640.003 + 8640.033	8640.023 + 8640.043	1
8006.000	1000 x 2000 x 600mm	8106.245	8640.005 + 8640.033	8640.024 + 8640.043	2
8206.000	1200 x 2000 x 600mm	8106.245	8640.007 + 8640.033	8640.025 + 8640.043	2
8626.000	600 x 2200 x 600mm	8126.245	8640.007 + 8640.033	8640.025 + 8640.043	1
8826.000	800 x 2200 x 600mm	8126.245	8640.003 + 8640.033	8640.023 + 8640.043	1
8226.000	1200 x 2200 x 600mm	8126.245	8640.007 + 8640.033	8640.025 + 8640.043	2
8608.000	600 x 2000 x 800mm	8108.245	8640.002 + 8640.034	8640.022 + 8640.044	1
8808.000	800 x 2000 x 800mm	8108.245	8640.003 + 8640.034	8640.023 + 8640.044	1
8208.000	1200 x 2000 x 800mm	8108.245	8640.007 + 8640.034	8640.025 + 8640.044	2

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

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

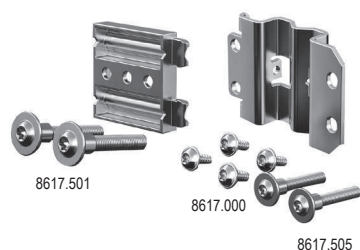


Product Code	Size W x H x D	Product Code (Side wall)	Product Code (100mm Plinths)	Doors
8457.000	600 x 1800 x 500mm	8700.840	8620.050 + 8620.071	1
8455.000	800 x 1800 x 500mm	8700.840	8620.051 + 8620.071	1
8453.000	1200 x 1800 x 500mm	8700.840	8620.053 + 8620.071	2
8452.000	600 x 2000 x 600mm	8700.050	8620.050 + 8620.072	1
8450.000	800 x 2000 x 600mm	8700.050	8620.051 + 8620.072	1
8451.000	1200 x 2000 x 600mm	8700.050	8620.053 + 8620.072	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
8617.000	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)

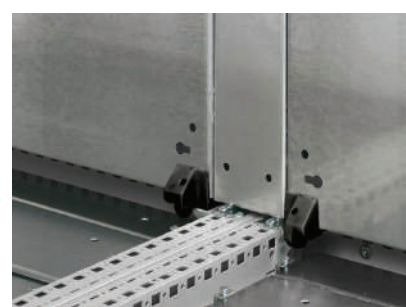
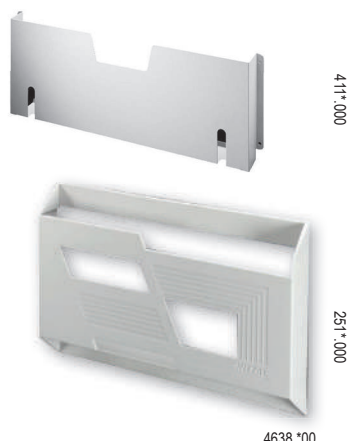
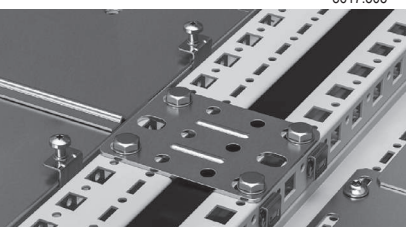
Product Code	Door Suitable Width	Width	Height
4638.600	600mm	413mm	400mm
4638.800	800mm	643mm	400mm

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
5366.000	PC cabinet, 2 door (glazed top door) + keyboard tray	600 x 1600 x 636mm	8620.002 + 8620.033	8620.022 + 8620.043
5368.000	PC cabinet, 2 door (glazed top door) + keyboard tray	600 x 1600 x 836mm	8620.002 + 8620.034	8620.022 + 8620.044

Enclosure Cooling (Fans & Air Conditioners)

Fans (Only)



Product Code	Size	Cut Out Size	Air Vol / Hour		Voltage
			50Hz	60Hz	
3237.124	116.5 x 116.5mm	92 x 92mm	20m³ / h	25m³ / h	24V DC (Fan)
3238.124	148.5 x 148.5mm	124 x 124mm	55m³ / h	66m³ / h	24V DC (Fan)
3239.124	204 x 204mm	177 x 177mm	105m³ / h	120m³ / h	24V DC (Fan)
3240.124	255 x 255mm	224 x 224mm	180m³ / h	160m³ / h	24V DC (Fan)
3241.124	255 x 255mm	224 x 224mm	230m³ / h	250m³ / h	24V DC (Fan)
3237.100	116.5 x 116.5mm	92 x 92mm	20m³ / h	25m³ / h	230V AC (Fan)
3238.100	148.5 x 148.5mm	124 x 124mm	55m³ / h	66m³ / h	230V AC (Fan)
3239.100	204 x 204mm	177 x 177mm	105m³ / h	120m³ / h	230V AC (Fan)
3240.100	255 x 255mm	224 x 224mm	180m³ / h	160m³ / h	230V AC (Fan)
3241.100	255x255mm	224 x 224mm	230m³ / h	250m³ / h	230V AC (Fan)
3243.100	323 x 323mm	292 x 292mm	550m³ / h	600m³ / h	230V AC (Fan)
3244.100	323 x 323mm	292 x 292mm	700m³ / h	770m³ / h	230V AC (Fan)

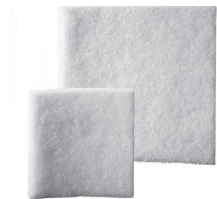
110V AC available on request.

Filters (Only)



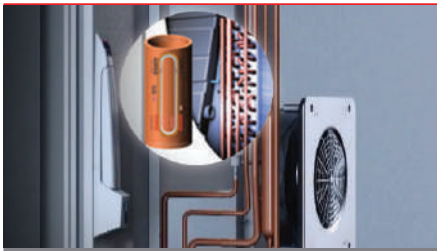
Product Code	Size	Cut Out Size	Air Vol / Hour		Assembly
			50Hz	60Hz	
3237.200	116.5 x 116.5mm	92 x 92mm	20 / h	25m³ / h	(Outlet with filter)
3238.200	148.5 x 148.5mm	124 x 124mm	55 / h	66m³ / h	(Outlet with filter)
3239.200	204 x 204mm	177 x 177mm	105 / h	120m³ / h	(Outlet with filter)
3240.200	255 x 255mm	224 x 224mm	180 / h	160m³ / h	(Outlet with filter)
3243.200	323 x 323mm	292 x 292mm	550 / h	600m³ / h	(Outlet with filter)

Filter Mats (Only)



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

Compressor cooling circuit with speed-controlled components for demand-based cooling, ensuring a constant temperature.



SAVE UP TO 75% OF ENERGY

Passive climate control: Heat pipe cooling circuit uses cooler ambient air.



DATA MANAGEMENT

Analysis and data management of multiple devices, with rapid diagnostics and parameterization locally via an app.

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.	

Air Conditioners Units Side Or Door Mount



Product Code	Description
3303.500	500W, Side / Door Mount, (230V)
3304.500	1kW, Side / Door Mount, (230V)
*3185.530	1.6kW, Side / Door Mount, (110V, 230V, 380V)
*3186.930	2kW, Side / Door Mount, (110V, 230V, 380V)
*3187.930	2.5kW, Side / Door Mount, (110V, 230V, 380V)
*3188.940	4kW, Side / Door Mount, (380 - 480V)
*3189.940	6kW, Side / Door Mount (380 - 480V)
* Multi voltage.	

LED System Lights



Product Code	Voltage	Length	Lumen	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

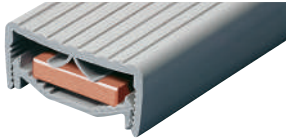
Connection cable separately ordered. | Mounting either directly screwed or separate magnetic mounting kit is required.

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

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

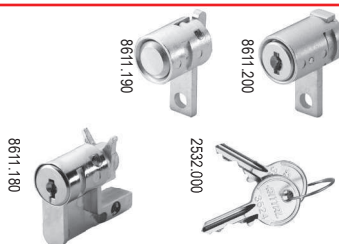
PrepaRed for the installation of lock inserts, version F, and lock and push-button inserts. Length: 295mm. Order 3524E Key + insert separately.

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.

FLEX Box

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 RAL2008

Protection degree:

IP66

Against mechanical impacts:

IK10

Thickness:

Enclosure & door:

Sheet steel 1.2mm till size ST6 820 then 1.5mm

Mounting plate:

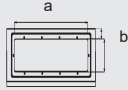
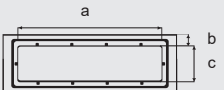
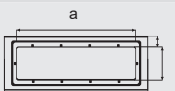
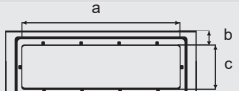
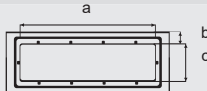
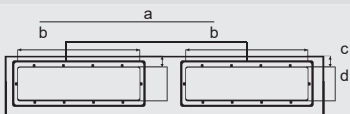
Zinc-coated steel 1.5mm till size ST6820 then 2.0mm

Technical Information

Product Code	Description	W x H x D	Number of Locks	Gland Open*	Internal Door	Rain Canopy	Front Window	Modular Distribution Kit
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	-	TT203	-	-
FB3420-O	Wall mount enclosure, Orange	300 x 400 x 200mm	1	B	FB-34	TT103	FBP3420	MDST43
FB4520-O	Wall mount enclosure, Orange	400 x 500 x 200mm	1	C	FB-54	TT104	FBP4520	MDST54
FB4625-O	Wall mount enclosure, Orange	400 x 600 x 250mm	2	C	FB-64	TT204	FBP4625	MDST64
FB5725-O	Wall mount enclosure, Orange	500 x 700 x 250mm	2	D	FB-75	TT205	FBP5725	MDST75
FB6830-O	Wall mount enclosure, Orange	600 x 800 x 300mm	2	D	FB-86	TT206	FBP6830	-
FB81030-O	Wall mount enclosure, Orange	800 x 1000 x 300mm	3	E	FB-810	TT208	FBP81030	MDST108
FB81230-O	Wall mount enclosure, Orange	800 x 1200 x 300mm	3	E	B-812	TT208	FBP81230	MDST128
FB81430-O**	Wall mount enclosure, Orange	800 x 1400 x 300mm	3	E	-	-	-	-

*Please refer to below Gland Open Diagram table. | **Only ST81430-0 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
GSLT171	Enclosure, RAL 7035, watertight, plain sides + transparent lid	156 x 180 x 160mm
GSLT231	Enclosure, RAL 7035, watertight, plain sides + transparent lid	186 x 246 x 180mm
GSLT322	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

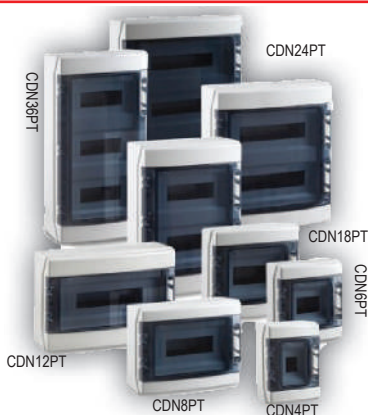
IP40 Surface Distribution Boxes



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

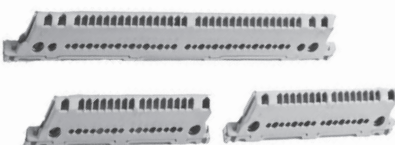
Surface Mount IP65 CDN (Polycarbonate) Distribution Board Din



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 separately. Please use below product codes the bars

Earth & Neutral Bars (Supplied Separately)



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

Atlantic | IP40 Steel Distribution Cabinets

IP30 - IP40 Combinable Surface Cabinets

Supply

- They are supplied disassembled in a single packaging that contains body, sides, top and bottom cover, cable entry cover and accessory bag.
- Accessory bag: Insulating caps to permit reversible doors, wall mounting supports, reinforcement buttons, mass continuity clamps, rulers for fitting rails and assembly instructions.
- The doors are supplied separately if requested, with both locks assembled and with accessory bag.
- Door accessory bag: Hinges and locks, mounting screws, lock pins and key.

Material

- Opaque doors manufactured in cold-rolled steel EN 10130+A1; 1mm thick surface cabinets and 1,2mm thick flush-fit cabinets and transparent doors manufactured in tinted 4mm tempered safety glass.

Finish

- Coated with hardened RAL 9003 epoxy-polyester paint, embossed 80-120 μ .

Protection

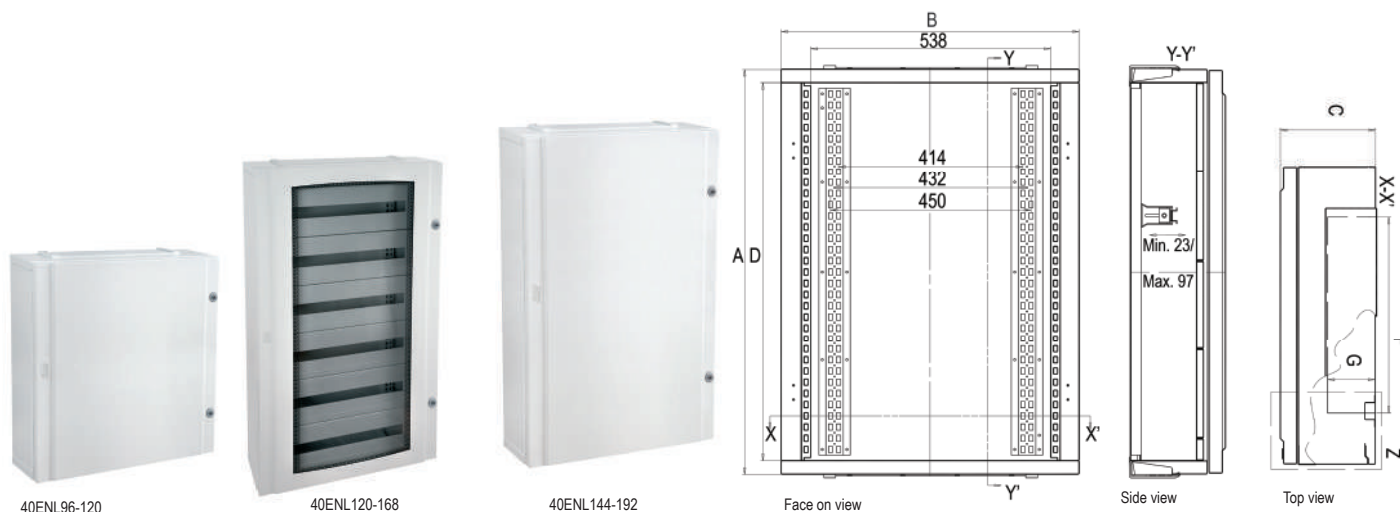
- Corrosion resistance according to the UNE-EN 62208 standard.

For outdoor installations, the effect of the corrosion must be taken into consideration.



IP30 - IP40 Combinable Surface Cabinets

Product Code Enclosure (No Door)	Product Code Door only	Dim. Cabinet (A x B x Cmm)	Usable Height Space (Dmm)	Cable Entry (F x Gmm)	Modular Capacity	Weight		Maximum Acceptable Load kg	Power Dissipation According To Temperature Increase °C P(W)*				
						Cab.	Door		20°C	25°C	30°C	35°C	40°C
40ENL96-120	PO40SUP96-120 PT40SUP96-120	910 x 670 x 212	850	440 x 106	96 - 120	17,10	9,69 9,77	40	153,97W	192,46W	230,95W	269,44W	307,93W
40ENL120-168	PO40SUP120-168 PT40SUP120-168	1110 x 670 x 212	1050	440 x 106	120 - 168	20,10	11,42 11,72	50	183W	228,75W	274,50W	320,25W	365,99W
40ENL144-192	PO40SUP144-192 PT40SUP144-192	1310 x 670 x 212	1250	440 x 106	144 - 192	29,67	10 11,30	60	185,90W	232,38W	278,85W	325,33W	371,80W



Lid Kits (Only | Lid Kits inside)

Product Code Plastic	Product Code Metal	Modular Capacity	For Cabinet	They Include
S120P150	S120M150	120 MOD.	65SUP96-120PO-PT	5 150-mm mod. lids + 2 50-mm blind lids + 5 DIN rails
S120P200	S120M200	120 MOD.	65SUP120-168PO-PT	5 200-mm mod. lids + 1 50-mm blind lid + 5 DIN rails
S168P150	S168M150	168 MOD.	65SUP120-168PO-PT	7 150-mm mod. lids + 7 DIN rails
S144P200	S144M200	144 MOD.	65SUP144-192PO-PT	6 200-mm mod. lids + 1 50-mm blind lid + 6 DIN rails
S192P150	S192M150	192 MOD.	65SUP144-192PO-PT	8 150-mm mod. lids + 1 50-mm blind lid + 8 DIN rails

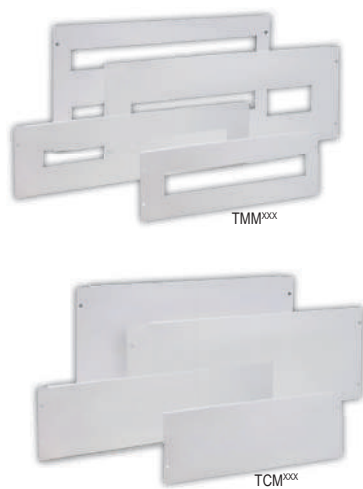
Plastic Lids



Material: ABS RAL 9003 white. | **Characteristics:** Hinged and reversible. They are closed by means of a clipping system.

Product Code	Description	Dimensions (H x W)	No. of Modules
TM150	Modular plastic cover hinged	150 x 577mm	24
TM200	Modular plastic cover hinged	200 x 577mm	24
TC50	Blind plastic cover Hinged	50 x 577mm	-
TC150	Blind plastic cover Hinged	150 x 577mm	-
TC200	Blind plastic cover Hinged	200 x 577mm	-

Metal Lids



Material: RAL 9003 white cold-rolled steel. | **Characteristics:** Fixed, bolted to the structure by means of M6 caged nuts and M6 x 10 anti-twist screws.

Product Code	Description	Dimensions (H x W)	No. of Modules
TMM150F	Fixed modular cover metal	150 x 577mm	24
TMM200F	Fixed modular cover metal	200 x 577mm	24
TMM300F	Fixed modular cover metal	300 x 577mm	2 x 24
TMM400F	Fixed modular cover metal	400 x 577mm	2 x 24
TCM50F	Fixed blind cover metal	50 x 577mm	-
TCM150F	Fixed blind cover metal	150 x 577mm	-
TCM200F	Fixed blind cover metal	200 x 577mm	-
TCM300F	Fixed blind cover metal	300 x 577mm	-
TCM400F	Fixed blind cover metal	400 x 577mm	-

Moulded-Case Circuit Breaker Cover (MCCB)



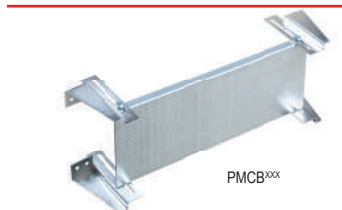
Material: RAL 9003 painted steel cover. Plate and adjustment elements in 2-mm thick galvanised steel.

Characteristics: Cover plus plate system for installing moulded-case circuit breakers (MCCBs) up to 400A. MCCB layout can be horizontal and/or vertical. The supports are height-adjustable.

Supply: The two cover + plate references must be ordered. The plate includes the four supports and all the screws needed for installation.

Product Code	Description	Dimensions (H x W)	For Switch
TMCB200	200mm Moulded-case circuit breaker cover	200 x 577mm	MCCB
TMCB250	250mm Moulded-case circuit breaker cover	250 x 577mm	MCCB
TMCB300	300mm Moulded-case circuit breaker cover	300 x 577mm	MCCB
TMCB400	400mm Moulded-case circuit breaker cover	400 x 577mm	MCCB

Plate + Moulded-Case Circuit Breaker Cover (MCCB) Support



PMCB200	Plate + moulded-case circuit breaker	165 x 385mm	-
PMCB250	Plate + moulded-case circuit breaker	215 x 385mm	-
PMCB300	Plate + moulded-case circuit breaker	265 x 385mm	-
PMCB350	Plate + moulded-case circuit breaker	315 x 385mm	-

DIN Rail Kit For Surface Cabinets



Product Code	Description	No. of Modules
48013	DIN rail + supports for surface assembly	24

Auxiliary Modules (Door Included)



Material: RAL 9003 painted sheet steel. | **Characteristics:** Possibility of installing auxiliary side or central module. Used for the installation of busbars, switches, control equipment etc., leaving more space inside the cabinet. Opaque door with standard 5mm double bit lock. | **For The Following Cabinets:** 40ENL.

Product Code	Description	Dimensions (H x W x D)	Usable Espace (H x W)	For Cabinet
MEL4096	Side Auxiliary module	910 x 350 x 212mm	850 x 209mm	40ENL96-120
MEL40120	Side Auxiliary module	1110 x 350 x 212mm	1050 x 209mm	40ENL120-16
MEL40144	Side Auxiliary module	1310 x 350 x 212mm	1250 x 209mm	40ENL144-192
*Joining / Baying Kit included				
MEC4096	Central Auxiliary module	910 x 350 x 212mm	850 x 209mm	40ENL96-120
MEC40120	Central Auxiliary module	1110 x 350 x 212mm	1050 x 209mm	40ENL120-168
MEC40144	Central Auxiliary module	1310 x 350 x 212mm	1250 x 209mm	40ENL144-192
*1x Joining / Baying Kit included 1x Extra Joining / Baying Kit NEEDED				

Cover Kit For Busbar



Material: RAL 9003 painted sheet steel. | **Characteristics:** All the accessories necessary for assembly are supplied. They provide additional protection for busbars.

Product Code	Gap Dimensions (H x W)	Height Dimensions Lid 1	Height Dimensions Lid 2	For Cabinet No. of Modules
48662	850 x 248mm	850mm	-	96
48663	1050 x 248mm	600mm	450mm	120
48664	1250 x 248mm	800mm	450mm	144

Moulded-case Circuit Breaker And Busbar Cover Kit



Product Code	Dimensions MCCB Cover	Dimensions Blind Lid	Dimensions Plate	For Cabinets (No. of Modules)
48700	450 x 248mm	-	300 x 212mm	48
48701	450 x 248mm	200 x 248mm	300 x 212mm	72
48702	450 x 248mm	400 x 248mm	300 x 212mm	96
48703	450 x 248mm	600 x 248mm	300 x 212mm	120
48704	450 x 248mm	800 x 248mm	300 x 212mm	144

Combination + Extension ENL Cabinets (Joining / Baying Kits)



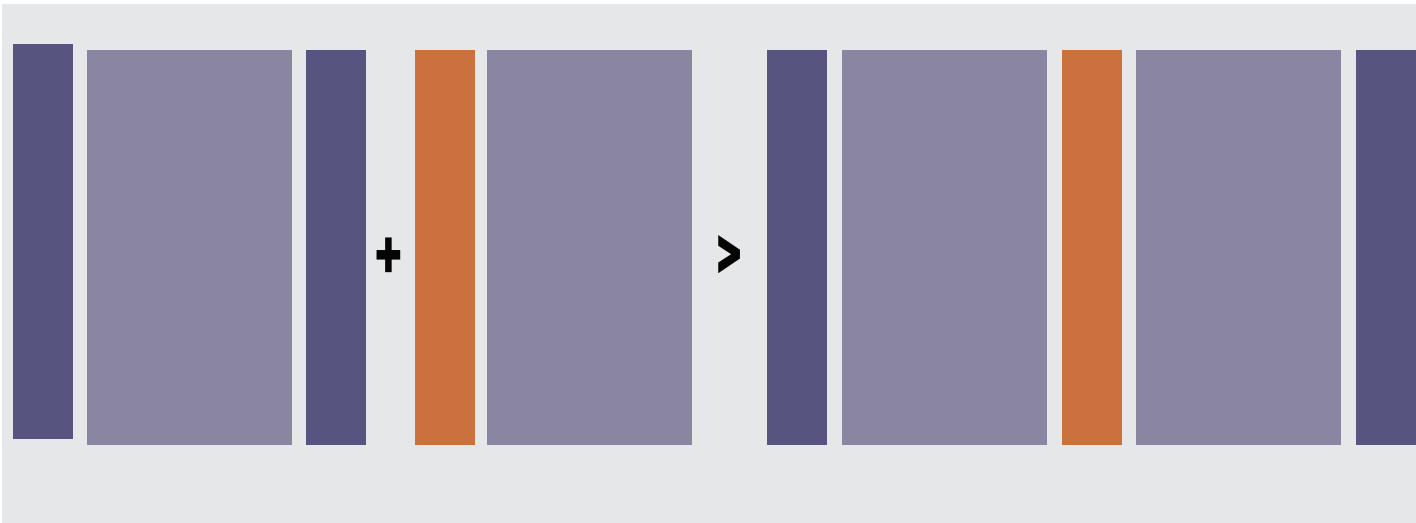
Material: RAL 9003 painted sheet steel. | **Characteristics:** It permits the connection and extension of ENL-type surface enclosures using a clipping system. It contains the joining structure, plus the cabinet extension. (Door not included). | **For The Following Cabinets:** 40ENL.

Product Code	Dimensions (H)	No. of Modules	For Cabinet	For Side Auxiliary Module	For Central Auxiliary Module
EE6791	850mm	96	40ENL96-120	MEL4096	MEC4096
EE67111	1050mm	120	40ENL120-168	MEL40120	MEC40120
EE67113	1250mm	144	40ENL144-192	MEL40144	MEC40144

How to join two 40ENL72-96 cabinets

References

Final set



Ref. Cabinet 40ENL72-96

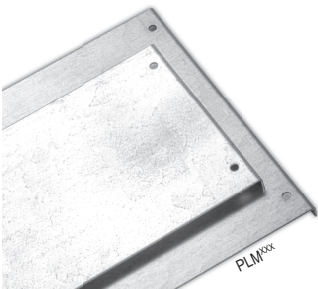
Ref. Extension EE6771

Door must be requested separately.

It includes one rear and two side panels.

It includes one rear panel and one joining structure.

Mounting Plates | Total Plain



Material: Mounting plate in 2mm thick galvanised steel. | **For The Following Cabinets:** 40SUP-40ENL-40EMP-65SUP.

Product Code	Dimensions (H x W)	No. Of Adjustable Supports
PLM850	850 x 478mm	2
PLM1050	1050 x 478mm	2
PLM1250	1250 x 478mm	2

Locks With Key



Characteristics: Housing manufactured in RAL 7037 polyamide and latch in steel. Aluminium key with code 333 included (1 pc.). (Ref. 48550 for spare).

Product Code	Description
48447	1/4 turn lock with key code 333 (surface)

Wall-mounting Support (Brackets)



MATERIAL: Galvanised steel. | **CHARACTERISTICS:** They are attached to the rear part of the cabinet vertically or horizontally. | **Supply:** 4-support pack.

Product Code	Description
48427	Galvanised wall-mounting support (4-piece pack)

Atlantic Plus

IP40 Combinable Steel Distribution Cabinets

Product Series

Standard

- IP40 combinable surface cabinets with opaque or transparent door.

Supply

IP40 combinable surface cabinets supplied disassembled in a single packaging that contains:

- Body.
- Sides.
- Top and bottom cover.
- Cable-entry cover.
- Frame.
- Plinth.
- Door.
- Accessory bag: Lifting and mounting pack, hinges, covers, cable-gland, screws, key, assembly instructions.



IP40 Combinable Surface Cabinets

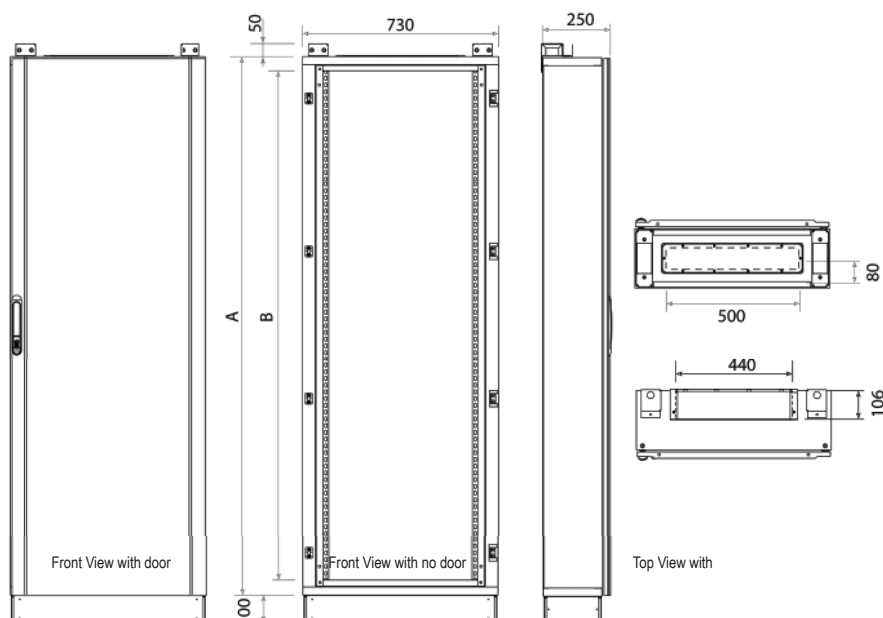
RAL 9003 rolled steel. | Cabinets supplied with modular frame, without lids or DIN rail. | Plinth included in the unit. The dimensions include the 100-mm plinth. | Cabinets supplied with door; PO: opaque door - PT: transparent door.

Product Code Enclosure & Door	Cabinet Dimensions (A x B x C)	Usable Height Space (B)	Modular Capacity	Weight	Maximum Acceptable Load	Power Dissipation According To Temperature Increase °C P(W)*				
						20°C	25°C	30°C	35°C	40°C
40ENL192-240PO	1810 x 730 x 250mm	1600mm	192 – 240mm	56kg	70kg	321,2W	401,5W	481,8W	562,1W	642,4W
40ENL192-240PT	1810 x 730 x 250mm	1600mm	192 – 240mm	56kg	70kg	321,2W	401,5W	481,8W	562,1W	642,4W
40ENL216-288PO	2110 x 730 x 250mm	1900mm	216 – 288mm	66.25kg	85kg	369,8W	462,2W	554,6W	647,1W	739,5W
40ENL216-288PT	2110 x 730 x 250mm	1900mm	216 – 288mm	66kg	85kg	369,8W	462,2W	554,6W	647,1W	739,5W



I40 Combinable
Opaque Door

I40 Combinable
Transparent Door



Hinged Plastic Covers



Material: ABS RAL 9003 white. | **Characteristics:** Hinged and reversible. They are closed by means of a clipping system.

Product Code	Description	Dimensions (H x W)	No. of Modules
TM150	Modular cover	150 x 577mm	24
TM200	Modular cover	200 x 577mm	24
TC50	Blind cover	50 x 577mm	-
TC150	Blind cover	150 x 577mm	-
TC200	Blind cover	200 x 577mm	-

Fixed Metal Covers



Material: RAL 9003 white cold-rolled steel. | **Characteristics:** Fixed, bolted to the structure by means of M6 caged nuts and M6x10 anti-twist screws. Hinged lids available to order.

Product Code	Description	Dimensions (H x W)	No. of Modules
TMM150F	Fixed modular cover	150 x 577mm	24
TMM200F	Fixed modular cover	200 x 577mm	24
TMM300F	Fixed modular cover	300 x 577mm	2x24
TMM400F	Fixed modular cover	400 x 577mm	2x24
TCM50F	Fixed blind cover	50 x 577mm	-
TCM150F	Fixed blind cover	150 x 577mm	-
TCM200F	Fixed blind cover	200 x 577mm	-
TCM300F	Fixed blind cover	300 x 577mm	-
TCM400F	Fixed blind cover	400 x 577mm	-

Moulded-case Circuit Breaker Cover And Support (MCCB)



Material: RAL 9003 painted steel cover. Plate and adjustment elements in 2mm thick galvanised steel. | **Characteristics:** Cover plus plate system for installing moulded-case circuit breakers (MCCBs) up to 630 A. MCCB layout can be horizontal and/or vertical. The supports are height-adjustable. | **Supply:** The two cover + plate references must be ordered. The plate includes the four supports and all the screws needed for installation.

Product Code	Description	Dimensions (H x W)	For Switch
TMCB200	Cover (MCCB) 200mm moulded-case circuit breaker	200 x 577mm	MCCB
TMCB250	Cover (MCCB) 250mm moulded-case circuit breaker	250 x 577mm	MCCB
TMCB300	Cover (MCCB) 300mm moulded-case circuit breaker	300 x 577mm	MCCB
TMCB400	Cover (MCCB) 400mm moulded-case circuit breaker	400 x 577mm	MCCB
PMCB200	Plate + moulded-case circuit breaker (MCCB) support	165 x 385mm	-
PMCB250	Plate + moulded-case circuit breaker (MCCB) support	215 x 385mm	-
PMCB300	Plate + moulded-case circuit breaker (MCCB) support	265 x 385mm	-
PMCB350	Plate + moulded-case circuit breaker (MCCB) support	315 x 385mm	-

Atlantic Plus | IP40 Steel Distribution Cabinet Accessories



Auxiliary Module

Material: RAL 9003 painted sheet steel. | **Characteristics:** Possibility of installing side or central auxiliary module. The cabinet and auxiliary module are joined by means of a jumper, leaving free inner passage space. Used for the installation of busbars, switches, control equipment etc., leaving more space inside the cabinet. They feature a standard 4-point lock, double-bit insert with retractable handle in RAL 7016 grey. | **For The Following Cabinets:** 40ENL.

Auxiliary Module Side (Door included)

Product Code	Description	Dimensions (H x W x D)	Usable Espace (H)	For Cabinet
MEL401810	Auxiliary module side	1810 x 430 x 250mm	1650mm	40ENL192-240
MEL402110	Auxiliary module side	2110 x 430 x 250mm	1950mm	40ENL216-288

*Joining / Baying Kit included



Auxiliary Module Central (Door included)

Product Code	Description	Dimensions (H x W x D)	Usable Espace (H)	For Cabinet
MEC401810	Auxiliary module central	1810 x 430 x 250mm	1650mm	40ENL192-240
MEC402110	Auxiliary module central	2110 x 430 x 25mm	1950mm	40ENL216-288

*1x Joining / Baying Kit included, 1x extra Joining / Baying Kit NEEDED.



Accessories for Auxiliary Module

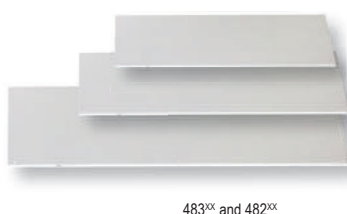


Main Switch

Material: Mounting plate in galvanised steel. RAL 9003 painted steel protection cover. | **Characteristics:** It features a protective cover and mounting plate with adjustment supports included. Possibility of fitting the moulded-case circuit breaker (MCCB) up to 630 A in the upright position.

Product Code	Description	Plate Dimensions (H x W)	Cover Dimensions (H x W)
48705	Moulded-case circuit breaker kit	300 x 273mm	450 x 303mm

Protective Covers For Busbar



Material: RAL 9003 painted sheet steel. | **Characteristics:** Partial covers to divide the protection area into sectors. All the accessories necessary for assembly are supplied. They provide the switchgear and other devices inside the auxiliary cabinet with additional protection. | **For The Following Cabinets:** MEL-MEC.

Product Code	Description	Cover Dimensions
48370	Protective covers for busbar	300 x 303mm
48371	Protective covers for busbar	450 x 303mm
48372	Protective covers for busbar	600 x 303mm
48266	Protective covers for busbar	1200 x 303mm
48267	Protective covers for busbar	1500 x 303mm

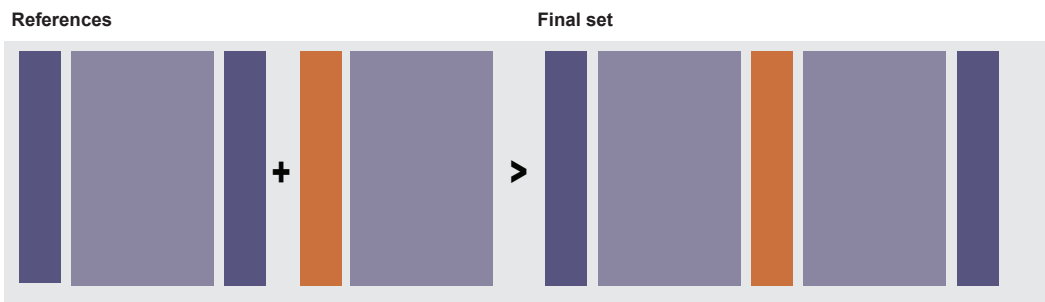
Combination + Extension ENL Cabinets (Joining / Baying Kits)

Material: RAL 9003 painted sheet steel. | **Characteristics:** It permits the connection and extension of ENL-type surface enclosures using a clipping system. It contains the joining structure plus the cabinet and door extension. | **For The Following Cabinets:** 40ENL.

Product Code	Dimensions (H)	For cabinet	For Side Auxiliary	For Central Auxiliary
EE1810PO	1810mm	40ENL192-240PO	MEL401810	MEC401810
EE2110PO	2110mm	40ENL216-288PO	MEL402110	MEC402110

*Door included

How to join two 40ENL192-240PO cabinets



Ref. Cabinet 40ENL192-240PO

Ref. Extension EE1810PO

Door included.

It includes one rear and two side panels.

It includes one rear panel and one joining structure.

Flat Mounting Plates | Total Plain

Material: Mounting plate in 2mm thick galvanised steel. | **Characteristics:** The mounting elements must be ordered for the height adjustment: ref. 48340. | **For The Following Cabinets:** 40ENL

Product Code	Dimensions (H x W)	No. Of Adjustable Elements Needed
PLM1600	1650 x 500mm	3
PLM1900	1950 x 500mm	3

Spare Doors

Product Code	Description	For Cabinet (No. of Modules)
PO40ENL192	Opaque door for cabinet type ENL	192-240
PT40ENL192	Transparent door for cabinet type ENL	192-240
PO40ENL216	Opaque door for cabinet type ENL	216-288
PT40ENL216	Transparent door for cabinet type ENL	216-288

Inserts For Lock With Handle

Product Code	Description
48465	Security insert lock with key code 333

Installation Components Accessories

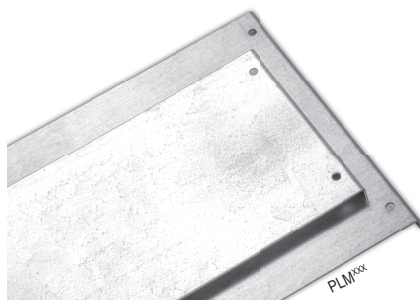
Module Lids

Material: 6-module lid in PS; 1-metre lid in PVC

Product Code	Description
48019	Module lid RAL 7035 grey (1m)

High Voltage Label

Product Code	Description	Dimensions
49390	High voltage adhesive label	105 x 105mm



PT40ENL^{xxx}



PO40ENL^{xxx}



48465



48019



49390

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



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



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



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



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



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)



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



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



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



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



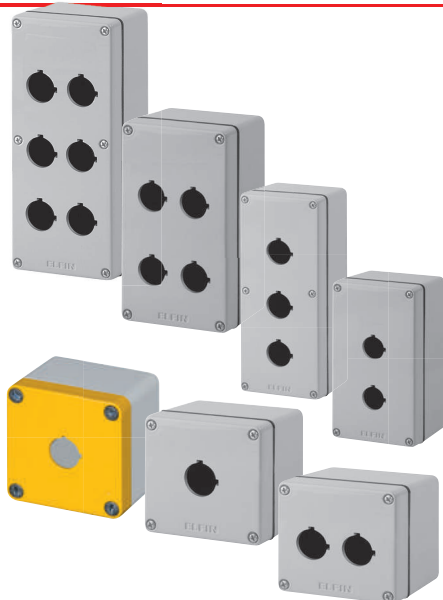
IP67 Product Code	Connection	Current	Poles	Voltage	Hour Code / Colour
02841	Female	16A	2P+E	200 / 250V AC	6 - Blue
03842	Female	16A	3P+E	380 / 415V AC	6 - Red
03843	Female	16A	3P+N+E	200 / 415V AC	6 - Red
03845	Female	32A	3P+E	380 / 415V AC	6 - Red
03846	Female	32A	3P+N+E	200 / 415V AC	6 - Red
03882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



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

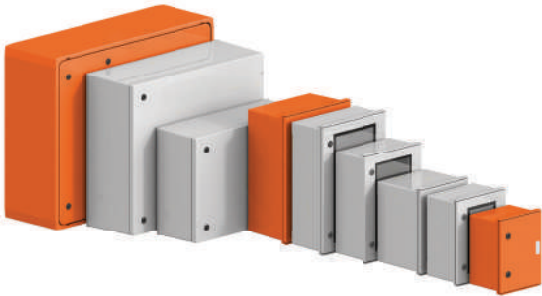
Die Cast Enclosures, Neutral (Non-Painted) Aluminium



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

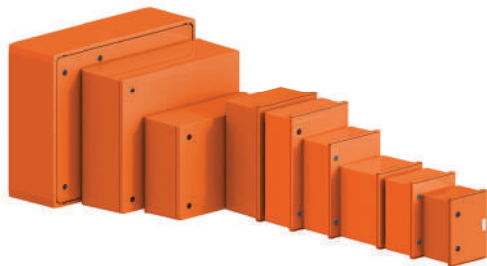
*N - Non painted. (neutral) | Image displayed for visual representation only and not product code.

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	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	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	Orange Product Code	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-04/DBK-A	Allbrox 4 Distribution Board Kit Assembled
ALL-05/DBK-A	Allbrox 5 Distribution Board Kit Assembled
ALL-06/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

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

Standard General Purpose Polyester Enclosures (Enlec) | Plastic



Material	Polycarbonate
Operating Temperature	-20°C to +110°C
Glow Wire Capability / Flammability	960° / UL94 V0
Expected UV Life (Direct Exposure)	5-8 years (10-15 years - Indirect Exposure)
IP Level	IP66
IK Level	IK10

Ordering Information



Clear Lid Product Code	Grey Lid Product Code	*Device Plate	Dimensions (HxWxD)
ENL080806C	ENL080806P	ENL0808DP	80 x 80 x 55mm
ENL120806C	ENL120806P	ENL1208DP	120 x 80 x 55mm
ENL120809C	ENL120809P	ENL1208DP	120 x 80 x 90mm
ENL121206C	ENL121206P	ENL1212DP	120 x 120 x 55mm
ENL121209C	ENL121209P	ENL1212DP	120 x 120 x 90mm
ENL160806C	ENL160806P	ENL1608DP	160 x 80 x 55mm
ENL160809C	ENL160809P	ENL1608DP	160 x 80 x 90mm
ENL161209C	ENL161209P	ENL1612DP	160 x 120 x 90mm
ENL161609C	ENL161609P	ENL1616DP	160 x 160 x 90mm
ENL201209C	ENL201209P	ENL2012DP	200 x 120 x 90mm
ENL201509C	ENL201509P	ENL2015DP	200 x 150 x 90mm
ENL241210C	ENL241210P	ENL2412DP	240 x 120 x 100mm
ENL241610C	ENL241610P	ENL2416DP	240 x 160 x 100mm
ENL241613C	ENL241613P	ENL2416DP	240 x 160 x 130mm
ENL302310C	ENL302310P	ENL3023DP	300 x 230 x 100mm
ENL302313C	ENL302313P	ENL3023DP	300 x 230 x 130mm
ENL362015C	ENL362015P	ENL3620DP	360 x 200 x 150mm

Clear Lid Product Code	Grey Lid Product Code	*Device Plate	Dimensions (HxWxD)
ENL080806C	ENL080806P	ENL0808DP	80 x 80 x 55mm
ENL120806C	ENL120806P	ENL1208DP	120 x 80 x 55mm
ENL120809C	ENL120809P	ENL1208DP	120 x 80 x 90mm
ENL121206C	ENL121206P	ENL1212DP	120 x 120 x 55mm
ENL121209C	ENL121209P	ENL1212DP	120 x 120 x 90mm
ENL160806C	ENL160806P	ENL1608DP	160 x 80 x 55mm
ENL160809C	ENL160809P	ENL1608DP	160 x 80 x 90mm
ENL161209C	ENL161209P	ENL1612DP	160 x 120 x 90mm
ENL161609C	ENL161609P	ENL1616DP	160 x 160 x 90mm
ENL201209C	ENL201209P	ENL2012DP	200 x 120 x 90mm
ENL201509C	ENL201509P	ENL2015DP	200 x 150 x 90mm
ENL241210C	ENL241210P	ENL2412DP	240 x 120 x 100mm
ENL241610C	ENL241610P	ENL2416DP	240 x 160 x 100mm
ENL241613C	ENL241613P	ENL2416DP	240 x 160 x 130mm
ENL302310C	ENL302310P	ENL3023DP	300 x 230 x 100mm
ENL302313C	ENL302313P	ENL3023DP	300 x 230 x 130mm
ENL362015C	ENL362015P	ENL3620DP	360 x 200 x 150mm

*Device plate sold separately

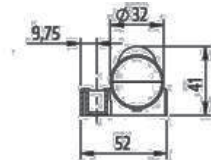
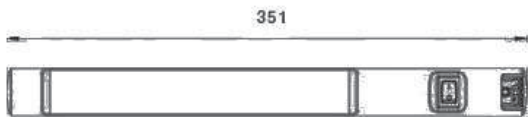
Ecoline Lamp (Economy LED for Enclosures) | LED 025

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
- Daisy chain
- Dual pressure connection clamp
- Magnet, screw or clip fixing
- PCK connector onboard
- Wide voltage range



Product Code Clip Fixing	Operating Voltage	Switch	Size (L x H)
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 41mm
02542.1-13	DC 24–48V (min. DC 20V, max. DC 60V)	No Switch	351 x 41mm
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

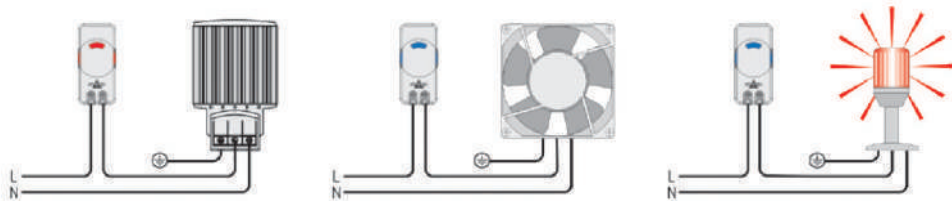


- KTO 011:**
- Thermostat (normally closed); contact breaker for regulating heaters. The contact opens when temperature is rising.

- KTS 011:**
- Thermostat (normally open); contact maker for regulating of filter fans and heat exchangers or for switching signal devises when temperature limit has been exceeded. The contact closes when temperature is rising

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°F



Panel Switching Electrical Socket | SD 035



Connection	3x pressure clamps for stranded and rigid wire 0.5 - 2.5mm ²
Mounting	Clip for 35mm DIN rail, EN 60715
Dimensions	92 x 62 x 48mm

Product Code	Operating Voltage max.	Socket	Model	Nominal current	Approvals
03500.0-00	250V AC	Germany/Russia	With fuse	6.3A	EAC
03500.0-01	250V AC	Germany/Russia	Without fuse	16.0A	EAC
03504.0-01	125V AC	USA / CANADA	Without fuse	15.0A	EAC

Smart Sensor | CSS 014 | 24V DC



The compact Smart Sensor CSS 014 electronically records temperature and humidity and converts the measured data into a standardized analog 4-20mA or a digital IO-Link signal. The converted value signals can be utilized or further processed by a control or monitoring unit, e.g. a PLC control. The Smart Sensor is suitable for installation inside and outside the enclosure, even in harsh environmental conditions as can be found in the wind power industry: in shielded outdoor areas and exposed to vibrations.

Measuring signals analogue (4-20mA) / digital	Temperature, humidity events, diagnosis, device data
Connection	M12 round plug connector, IEC 61076-2-101, 4-pin, A-coded, shielded
Mounting	Clip for 35mm DIN rail, EN 60715 and screw fixing M5
Dimensions	140 x 40 x 38mm

Ordering Information

Product Code	Interface	Operating Voltage	Power Consumption Max.	Temp. Measuring Range	Humidity Measuring Range	Operating Temperature
01420.2-00	4-20mA (analogue)	24V DC 12-30V DC	1.8W (typically 0.4W)	-40°C to +60°C ± 1K	0 to 100 % RH± 4%	-40 to +70 °C

Enquire for IO link version

Door Switch | DS 013



The version with change-over contact (CO) can be used as a normally closed and/or normally open contact. The wide mechanical adjustment range of the door switch DS 013 offers versatile application areas: the housing is adjustable within a 35mm range, while the screw flange with a slotted hole offers an additional 21mm. The switching travel of the switch itself is another 8mm. The Door Switch can monitor position of cabinet doors.

Max. switching capacity	250V AC, 8 (1.5)A
Service life	VDE: > 10,000 cycles
Connection	4-pole clamp with strain relief, clamping torque 0.5Nm max.
Dimensions	87 x 64 x 30mm

Ordering Information

Product Code	Model	Suitable wire
01350.0-00	Change-over (CO)	Cable round, stranded wire (with wire end ferrule) 0.75mm ² to 1mm ²

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

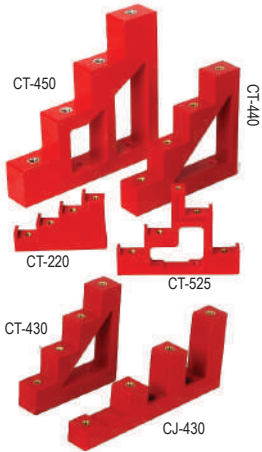
Product Code	Rated Current Up To	No. Of Poles	Centre Distance Of Busbar	Suitable For Bar Size	Tightening Turning Moment		Per Package
					Fixed Screw	Fixed Cover	
SV1	800	1	-	30 x 10mm	5 - 8Nm	1 - 3Nm	2
SV2	800	2	60mm	30 x 10mm, 30 x 5mm, 25 x 10mm, 25 x 5mm, 20 x 10mm, 20 x 5mm, 20 x 10mm, 15 x 10mm,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

Step Insulators



Product Code	Description	Phase Number	Width
CT-215	Step Insulator	2 phase	15mm
CT-220	Step Insulator	2 phase	20mm
CT-225	Step Insulator	2 phase	25mm
CT-525	Step Insulator	5 phase	25mm
CT-430	Step Insulator	4 phase	30mm
CT-440	Step Insulator	4 phase	40mm
CT-450	Step Insulator	4 phase	50mm
CJ-430	Step Insulator	4 phase	30mm
CJ-440	Step Insulator	4 phase	40mm
CJ-50	Step Insulator	-	50mm

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
	UK 411	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
	UK 415	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
	UK 412	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
	UK 207	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
	UK 407	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



Product Code	LK34-25011
Rated Current	250A
Nominal voltage	660V
Copper platoon size	20 x 5 x 248mm
Phase	4
In/Out	10x M6 + 1x M8
IPK KA	30
Vimp KV	8
Outline dimensions	280 x 170 x 77mm

4-pole Terminal box 400A



Product Code	LK34-40011
Rated Current	400A
Nominal voltage	660V
Copper platoon size	25 x 6 x 248mm
Phase	4
In/Out	10x M6+1x M8
IPK KA	30
Vimp KV	8
Outline dimensions	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

1 Bit 50mm² | KE Universal Terminal for Al/Cu Conductors



Conductor Cross-section	Cu 2.5–50mm ² Al 6–50mm ²
Conductor Size	1/0-6 AWG
Material	PA66 UL94-V0
Mounting	DIN-Rail mounting
Screw	Hexagon, 5mm
Operating Temperature	Max. 80°C
Marking Strip	ZB5 10 bit /bar

1 Bit 50mm² Ordering Information

Product Code	Colour	Pole	Tighten Torque	Rated Current	Nominal Voltage	Weight
KE61.1	Grey	1-pole AL/Cu 2.5–50mm ²	4Nm (2.5–4mm ²) 12Nm (6–50mm ²)	Cu 160A AL 145A	750V	35g
KE61.2	Blue				750V	35g
KE61.3	Yellow/Green				750V	35g

1 Bit 240mm² | KE Universal Terminal for Al/Cu Conductors



Conductor Cross-section	35–240mm ²
Conductor Size	500–3/0 AWG
Material	PA66 UL94–V0
Mounting	DIN-Rail mounting
Screw	Hexagon, 8mm
Operating Temperature	Max. 80°C
Marking Strip	ZB5 10 bit /bar

1 Bit 240mm² Ordering Information

Product Code	Color	Pole	Tighten Torque	Rated Current	Nominal Voltage	Weight
KE64.1	Grey	1-pole AL/Cu 35–240mm ²	12Nm (35–70mm ²) 45Nm (95–240mm ²)	Cu 425A AL 380A	750V	305g
KE64.2	Blue	1-pole AL/Cu 35–240mm ²	12Nm (35–70mm ²) 45Nm (95–240mm ²)	Cu 425A AL 380A	750V	305g
KE64.3	Yellow / Green	1-pole AL/Cu 35–240mm ²	12Nm (35–70mm ²) 45Nm (95–240mm ²)	Cu 425A AL 380A	750V	305g

Fuse Switches

432.11.21.71



432.12.01.05.00



432.11.21.71



432.13.20.13 | 432.14.20.23 | 432.15.20.34

Fuses



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
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
24588-*	3	400A, 500A, 630A	120kA	500V

 UFB Type
Screw Mount
UFB Type
Screw Mount

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

DC Miniature Circuit Breakers Ex9BP-JX

NOARK



C-Characteristic, 1-pole, 250V DC

Product Code	Type	Rated Current	Width	Char.
83522	Ex9BP-JX(+) 1P C1	1A	1 MU	C
83523	Ex9BP-JX(+) 1P C2	2A	1 MU	C
83524	Ex9BP-JX(+) 1P C3	3A	1 MU	C
83525	Ex9BP-JX(+) 1P C4	4A	1 MU	C
83526	Ex9BP-JX(+) 1P C6	6A	1 MU	C

Image displayed as dimension visibility and not product code.



C-Characteristic, 2-pole, 500V DC

Product Code	Type	Rated Current	Width	Char.
83535	Ex9BP-JX(+) 2P C1	1A	2 MU	C
83536	Ex9BP-JX(+) 2P C2	2A	2 MU	C
83537	Ex9BP-JX(+) 2P C3	3A	2 MU	C
83538	Ex9BP-JX(+) 2P C4	4A	2 MU	C
83539	Ex9BP-JX(+) 2P C6	6A	2 MU	C

Image displayed as dimension visibility and not product code.

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
Enclosed				

AC Surge Protectors



3-Phase Type 2 Surge Protectors

Product Code	821520222	821110244
Model	DAC40CS-31-275	DAC50S-31-275
3-Phase 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 10mm ² max.	Screw terminal 25mm ² max.
Mounting	DIN Rail	DIN Rail
Dimensions (width)	36mm	72mm
Remote Signaling	Option (enquire)	Option (enquire)



Single-Phase Type 2 Surge Protectors

Product Code	821520221	821620221
Model	DAC40CS-11-275	DAC15CS-11-275
Single-Phase Network	230 / 400V	230 / 400V
SPD Configuration	Single-phase	Single-phase
Max. AC Operating Voltage	275V	275V
Nominal Discharge Current	20kA	5kA
Maximal Discharge Current	40kA	15kA
Connection	Screw terminal 10mm ² max.	Screw terminal 10mm ² max.
Mounting	DIN Rail	DIN Rail
Dimensions (width)	18mm	18mm
Remote Signaling	Option (enquire)	Option (enquire)



3-Phase Type 1 Surge Protectors

Product Code	821710244	821730224
Model	DAC1-13S-31-275	DAC1-13VGS-31-275
Single - Phase Network	230 / 400V	230 / 400V
SPD Configuration	3-phase + N	3-phase + N
Max. AC Operating Voltage	275V	275V
Nominal Discharge Current	20kA	20kA
Lightning Current 10/350µs	12.5kA	12.5kA
Connection	Screw terminal 25mm ² max.	Screw terminal 25mm ² max.
Mounting	DIN Rail	DIN Rail
Dimensions (width)	72mm	72mm
Remote signaling	Option (enquire)	Option (enquire)

LED Outdoor Lighting



Din Rail Single Phase Surge Protectors

Product Code	352913	355913
Model	DSLPM1-230L	DLP1M1-230L
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 2.5mm ² max.	Screw terminal 2.5mm ² max.
Mounting	DIN Rail	DIN Rail
End of life indicator	Green light indicator OFF (DSLPM)	Green indicator
SPD disconnection	Red mechanical indicator (DLMP) AC network OFF	Red indicator AC line disconnect
Remote signalling	No	No
Dimensions (width x height)	18 x 17.9mm	38 x 17.9mm

CCTV Cameras & Fire Alarms



The MSP-VM-2P series is designed to protect Pan Tilt Zoom security cameras connected to a CCTV network from transient overvoltages. It is a triple protection for video signal, 24V or 230V AC power supply and RS485 data signal lines.



Combined CCTV Surge Protectors

Product Code	420432	420431
Model	MSP-VM24-2P	MSP-VM230-2P
Max. Video Line Voltage	6V DC	6V DC
Max. Data Line Voltage	8V DC	8V DC
Max. Power Line Voltage	30V AC / V DC	255V DC
Nominal Discharge Current (In) 8/20µs Impulse - 10 Times	5kA / 10kA (video)	5kA / 10kA (video)

POE++ Surge Protectors



Product Code	581519
Model	MJ8-POE-A
Description / Network	RJ45 SPD for POE++ / Gigabit Ethernet (cat.5E)
Max. Line Voltage	60V DC
Nominal Discharge Current (In) (line/ground @ 8/20µs)	2kA
Connectors	Shielded RJ45

DC Type 2 Surge Protectors



Product Code	Model	Network
828210311	DDC20C-20-24	12V DC–24V DC
828210411	DDC20C-20-38	24V DC–38V DC
828310111	DDC30C-20-65	48V DC–65V DC
828410511	DDC40C-20-100	75V DC–100V DC
828410611	DDC40C-20-125	95V DC–125V DC
828410711	DDC40C-20-150	110V DC–150V DC
	DDC40C-20-180	130V DC–180V DC
828410911	DDC40C-20-275	220V DC–275V DC
828411021	DDC40C-20-350	280V DC–350V DC
828411111	DDC40C-20-460	350V DC–460V DC

SPD Configuration	2-pole
Nominal Discharge Current	10, 15 or 20kA
Maximal Discharge Current	20 and 40kA
Connection	Screw terminal 10mm ² max.
Mounting	DIN Rail
Remote Signaling	Option

Control Rooms

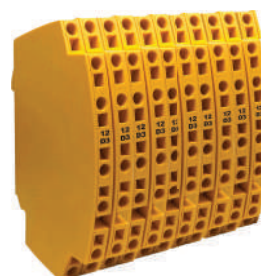
19" Rack Surge Protectors



Product Code	6253	6254	6372
Model	RAK16-BNC	RAK16-E-C6	RAK16-POE-A
Type of line	Video BNC	Ethernet Cat. 6	Ethernet POE
Number of ports	16	16	16
Maximum line voltage	7.5V DC	7.5V DC	60V DC
Nominal discharge current	600A	500A	250A
Connectors	BNC	RJ45	RJ45

Data Network

Compact Dataline Surge Protectors



Product Code	641101	641102	641103	641104
Model	DLC-06D3	DLC-12D3	DLC-24D3	DLC-48D3
Typical application	RS422, RS485	RS232/RS485	LS, 4 - 20mA	RNIS-T0, 48 V line
Configuration	1pair + shield	1 pair + shield	1 pair + shield	1 pair + shield
Nominal line voltage	6V	12V	24V	48V
Max. line current	300mA	300mA	300mA	300mA
Nominal discharge current	5kA	5kA	5kA	5kA
Maximum discharge current	10kA	10kA	10kA	10kA
Mounting	DIN rail	DIN rail	DIN rail	DIN rail

Dataline Surge Protectors



Model	DLA-xxx	DLAS-xxx	DLATS-xxx
Feature	Plug-in	Plug-in + Signaling	Plug-in + Remote signaling

Typical Application

Characteristics	Product Code	Model	Product Code	Model	Product Code	Model
RS422	640101	DLA-06D3	641301	DLAS-06D3	641401	DLATS-06D3
Profibus-FMS, RS232, Batibus, RS485, Fieldbus-H1, Interbus	640201	DLA-12D3	641302	DLAS-12D3	641402	DLATS-12D3
Profibus-DP, LONworks	640221	DLA-12DBC	-	-	-	-
4-20 mA	640301	DLA-24D3	641303	DLAS-24D3	641403	DLATS-24D3
Profibus-PA	640302	DLA-48D3	641304	DLAS-48D3	641404	DLATS-48D3
Fieldbus-H2, Fipway, WorldFIP	640421	DLA-48DBC	-	-	-	-
Configuration	1pair + shield					
Nominal line voltage	6V up to 48V					
Max. line current	300mA					
Nominal discharge current	5kA					
Maximum discharge current	20kA					
Mounting	DIN rail					



CS Drives



- Easy to use Compatible with all actual keypads.
- Supporting high-speed communication RS485 communication as standard, supporting Modbus®/RTU and Mitsubishi protocol
- Shorter start up time with easy setup Easy to configure via FR Configurator2, which is free software and can be downloaded from the My Mitsubishi website.
- Reduced wiring check time the wiring can be checked easily by lifting the control terminal cover, which makes maintenance easier.
- Easy wiring to the control circuit Spring clamp terminals provide high reliability and easy wiring.



CS Drive 200V

Product Code	Part Number	Description
325716	FR-CS82S-025-60	Inverter; Rated Power: 0.4kW; 1x 200–240V; Rated Current: 2.5A; IP20
325717	FR-CS82S-042-60	Inverter; Rated Power: 0.75kW; 1x 200–240V; Rated Current: 4.2A; IP20
325718	FR-CS82S-070-60	Inverter; Rated Power: 1.5kW; 1x 200–240V; Rated Current: 7A; IP20
325719	FR-CS82S-100-60	Inverter; Rated Power: 2.2kW; 1 x 200–240V; Rated Current: 10A; IP20

CS Drive 400V

Product Code	Part Number	Description
325720	FR-CS84-012-60	Inverter; Rated Power: 0.4kW; 3x 380–480V; Rated Current: 1.2A; IP20
325721	FR-CS84-022-60	Inverter; Rated Power: 0.75kW; 3x 380–480V; Rated Current: 2.2A; IP20
325722	FR-CS84-036-60	Inverter; Rated Power: 1.5kW; 3x 380–480V; Rated Current: 3.6A; IP20
325724	FR-CS84-080-60	Inverter; Rated Power: 3.7kW; 3x 380–480V; Rated Current: 8A; IP20
325723	FR-CS84-050-60	Inverter; Rated Power: 2.2kW; 3x 380–480V; Rated Current: 5A; IP20
325745	FR-CS84-120-60	Inverter; Rated Power: 5.5kW; 3x 380–480V; Rated Current: 12A; IP20
325746	FR-CS84-160-60	Inverter; Rated Power: 7.5kW; 3x 380–480V; Rated Current: 16A; IP20
325747	FR-CS84-230-60	Inverter; Rated Power: 11kW; 3x 380–480V; Rated Current: 23A; IP20
325748	FR-CS84-295-60	Inverter; Rated Power: 15kW; 3x 380–480V; Rated Current: 29.5A; IP20

FX5 PLC



- Fastest CPU in class
- Onboard data logging to local memory or external memory card
- Onboard Web server that supports HTML programming—build your own web interface to your PLC
- FTP capability—FTP data direct from the PLC
- 16 Digital In
- 16 Digital Out
- 2 Analogue In
- 1 Analogue Out
- Onboard Ethernet communications port
- Onboard RS485 (supports Melsec Inverter Comms / Modbus RTU)
- Supports a variety of expansion cards

FX5 PLC Ordering Information

Product Code	Part Number	Description
280489-AAF	FX5U-32AAF	FX5U CPU AC 100 - 240V; 16 Inputs DC24V; 16x Relay; 3x Analogue; Eth.; RS485
297437-AAF	FX5U-32AAF-TDS	FX5U CPU DC 16 Inputs; 16 Transistor Outputs; 3 x Analogue; Eth; RS - 485; sink
297438-AAF	FX5U-32AAF-TDSS	FX5U CPU DC 24V; 16 Inputs; 16 x Transistor; Source; 3x Analogue; Eth.; RS485
280490-AAF	FX5U-32AAF-TES	FX5U CPU AC 100 - 240V; 16 Inputs DC 24V; 16x Trans; 3x Analogue; Eth.; RS485; sink
280491-AAF	FX5U-32AAF-TESS	FX5U CPU AC 100 - 240V; 16 Inputs DC 24V; 16x Trans; 3x Analogue; Eth.; RS485; source
297436-AAF	FX5U-32AAF-RDS	FX5U CPU DC 16 Inputs; 16 Relay Outputs; 3x Analogue; Eth; RS - 485
280492	FX5U-64MR/ES	FX5U CPU AC 100 - 240V; 32 Inputs DC 24V; 32x Relay; 3x Analogue; Eth.; RS485
280493	FX5U-64MT/ES	FX5U CPU AC 100 - 240V; 32 Inputs DC 24V; 32x Trans; 3x Analogue; Eth.; RS485; sink
280494	FX5U-64MT/ESS	FX5U CPU AC 100 - 240V; 32 Inputs DC 24V; 32x Trans; 3x Analogue; Eth.; RS485; source
301923	FX5U-64MR/DS	FX5U CPU DC 32 Inputs; 32 Relay Outputs; 3x Analogue; Eth; RS - 485
301924	FX5U-64MT/DS	FX5U CPU DC 32 Inputs; 32 Transistor Outputs; 3x Analogue; Eth; RS - 485; sink
301945	FX5U-64MT/DSS	FX5U CPU DC 32 Inputs; 32 Transistor Outputs; 3x Analogue; Eth; RS - 485; source

FX5 PLC Cards Ordering Information

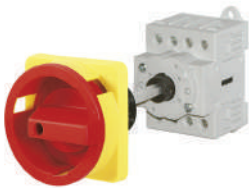
Product Code	Part Number	Description
280505	FX5-16EX/ES	FX5 Extension I/O 16 Input DC 24V
280502	FX5-16EYR/ES	FX5 Extension I/O 16 Output Relay
283559	FX5-4AD-ADP	FX5 Analogue input; 4ch
334430	FX5-4AD	FX5; Analogue Input Module; 4 channels
312297	FX5-8AD	FX5; Analogue Input Module; Pt100 / Ni100 / K / J / T / B / R / S; 8 channels
280498	FX5-8EX/ES	FX5 Extension I/O 8 Input DC 24V
283560	FX5-4DA-ADP	FX5 Analogue output; 4ch
325715	FX5-4DA	FX5; Analogue Output Module; 4 channels
280499	FX5-8EYR/ES	FX5 Extension I/O 8 Output Relay
280501	FX5-8EYT/ESS	FX5 Extension I/O 8 Output Transistor Source

ZBK Switch Disconnectors Panel Mount (AC)



Product Code	Poles	Product Code	Poles	Amps	Description
ZBK20EHN4A3	3	ZBK20EHN4A4	4	20	ZBK On-off switch panel mounting with padlock-able IP66
ZBK25EHN4A3	3	ZBK25EHN4A4	4	25	ZBK On-off switch panel mounting with padlock-able IP66
ZBK40EHN4A3	3	ZBK40EHN4A4	4	40	ZBK On-off switch panel mounting with padlock-able IP66
ZBK63EHN4A3	3	ZBK63EHN4A4	4	63	ZBK On-off switch panel mounting with padlock-able IP66
ZBK80EHN4A3	3	ZBK80EHN4A4	4	80	ZBK On-off switch panel mounting with padlock-able IP66
ZBK125EHN4A3	3	ZBK125EHN4A4	4	125	ZBK On-off switch panel mounting with padlock-able IP66

ZBK Switch Disconnectors Base Mount (AC)



Product Code	Poles	Product Code	Poles	Amps	Description
ZBK20VZVHN4A3	3	ZBK20VZVHN4A4	4	20	ZBK On-off switch panel mounting with padlock-able IP66
ZBK25VZVHN4A3	3	ZBK25VZVHN4A4	4	25	ZBK On-off switch panel mounting with padlock-able IP66
ZBK40VZVHN4A3	3	ZBK40VZVHN4A4	4	40	ZBK On-off switch panel mounting with padlock-able IP66
ZBK63VZVHN4A3	3	ZBK63VZVHN4A4	4	63	ZBK On-off switch panel mounting with padlock-able IP66
ZBK80VZVHN4A3	3	ZBK80VZVHN4A4	4	80	ZBK On-off switch panel mounting with padlock-able IP66
ZBK125VZVHN4A3	3	ZBK125VZVHN4A4	4	125	ZBK On-off switch panel mounting with padlock-able IP66

ZBK Switch Disconnectors Enclosed IP65 (AC)



Product Code	Poles	Product Code	Poles	Amps	Description
ZBK20PFHN4A3	3	ZBK20PFHN4A4	4	20	ZBK On-off switch plastic enclosure padlock-able IP65
ZBK25PFHN4A3	3	ZBK25PFHN4A4	4	25	ZBK On-off switch plastic enclosure padlock-able IP65
ZBK40PFHN4A3	3	ZBK40PFHN4A4	4	40	ZBK On-off switch plastic enclosure padlock-able IP65
ZBK63PFLHN4A3	3	ZBK63PFLHN4A4	4	63	ZBK On-off switch plastic enclosure padlock-able IP65
ZBK80PFLHN4A3	3	ZBK80PFLHN4A4	4	80	ZBK On-off switch plastic enclosure padlock-able IP65
ZBK125PFLHN4A3	3	ZBK125PFLHN4A4	4	125	ZBK On-off switch plastic enclosure padlock-able IP65

ZBK Disconnecter Accessories (AC)



Product Code	Description
ZBK1H11	Auxiliary 1N/O + 1N/C
ZBKN40V	Neutral for 25-40 Amps switch disconnector

Enclosed Switch Disconnectors S5 (AC)



Product Code	Amps	Poles	Description
CIS25C01603NB	160	3P + N	Switch In Metallic Enclosure S5, Protection rating IP65
CIS25C02503NR	250	3P + N	Switch In Metallic Enclosure S5, Protection rating IP65
CIS25C03153NR	315	3P + N	Switch In Metallic Enclosure S5, Protection rating IP65
CIS25C04003NC	400	3P + N	Switch In Metallic Enclosure S5, Protection rating IP65
CIS25C08003NR	800	3P + N	Switch In Metallic Enclosure S5, Protection rating IP65
With external pad lockable handle.			

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

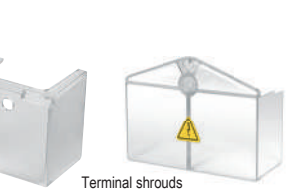
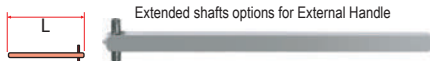


- Shaft included with every Handle
- Conforms to IEC60947-3 Available from 40 Amp to 6300 Amp
- 3-pole & Neutral (Fully rated 4th/Neutral Pole)
- New Ergonomic Weatherproof Defeatable Handle
- Pad lockable in Off Position
- Door Interlock Handle in On Position

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
S5-10003NC0	1000 Amp	3P+N

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

Accessories

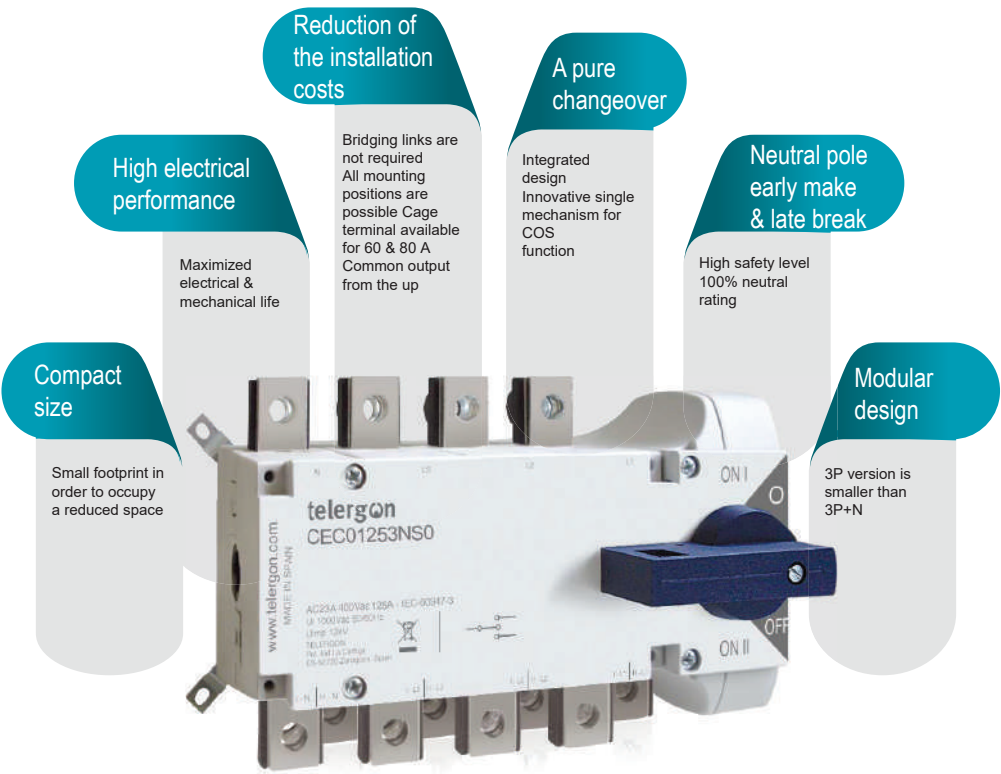


Product Code	Amperage AC21
DS-SA01	40A–200A Door Interlocked Handle & 177mm (L) Shaft
DS-SA11	250A–400A Door Interlocked Handle & 227mm (L) Shaft
DS-LA21	630A–800A Door Interlocked Handle & 195mm (L) Shaft
DS-LA31	1000A Door Interlocked Handle & 186mm (L) Shaft
DS-EP05	40A–200A Extension Shaft 387mm (L)
DS-EP15	250A–400A Extension Shaft 535mm (L)
DS-EP24	500A–1000A Extension Shaft 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



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



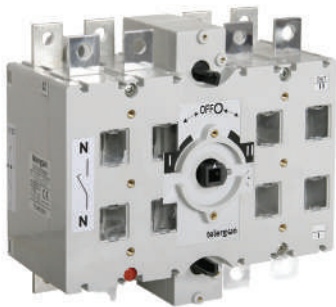
Product Code	Description	Poles
DCELAB1	External Handle	-
D5LSI01	Direct Handle	-
DS-EP04 (L: 250mm)	Accessories: Shaft Extension	-
DS-EP05 (L: 387mm)	Accessories: Shaft Extension	-
DCEAUB1	Auxiliary Contacts 1NO + 1N/C	-
DCECUB2	Phase barriers	3P+N

Changeover Switches (AC)



- 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

3P+N Base Mount Changeover Switches



Product Code	Poles	Product Code	Poles	Amperage AC21
S5F01253NS0	4	S5F01253PS0	3	125 Amp
S5L01603NS0	4	S5L01603PB0	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

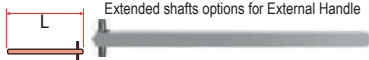
Available up to 3150 Amp. | Terminal Shrouds for 40A to 160A Switches. | Not Required as Touch Proof Terminals.*
Terminal Shrouds, Order 2 Input Shrouds and 1 Output Shrouds per switch. | For larger switches please enquire.

Accessories

External Handle Blue with
standard shaft included



Extended shafts options for External Handle



Terminal shrouds



Direct Handle

Auxiliary
Switch

Product Code	Amperage AC21
D5LLA01	125-160A Door interlock handle & 177mm shaft
DCCLA11	200-400A Door interlock handle & 227mm shaft
DCCLA21	500-800A Door interlock handle & 195mm shaft
DCCLA31	1000-1250A 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
DCCCU12	200A-400A Output Terminal Shroud
DCCCU22	630A-800A Output Terminal Shroud
DCCCU32	1000A Output Terminal Shroud
D5LSI01	125A-200A Direct Handle
DCCLI11	200A-400A Direct Handle
DCCLI21	500A-800A Direct Handle
DCCLI31	1000A Direct Handle
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

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

telergon



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



Direct Handle



External Handle



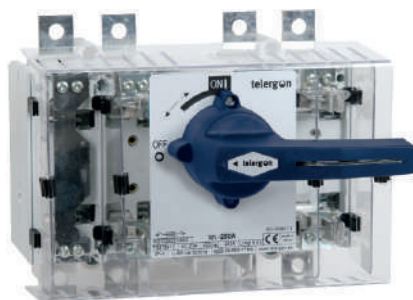
Terminal Shrouds



Auxiliary Switch

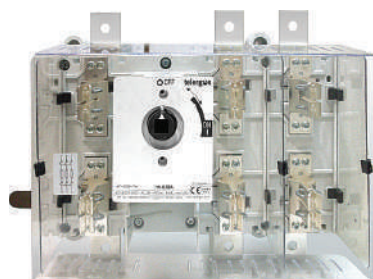
Product Code	Amperage AC21
D5LSI02	125A–200A Direct Handle
D5LLI12	250A–400A Direct Handle
D5LLI22	500A–630A Direct Handle
D5LLA01	125A–200A External Handle, including shaft L:177mm
D5LLA11	250A–400A External Handle, including shaft L:277mm
D5LLA21	500A–630A External Handle, including shaft L:239mm
DS-AU11	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

Fuse Switches (AC)



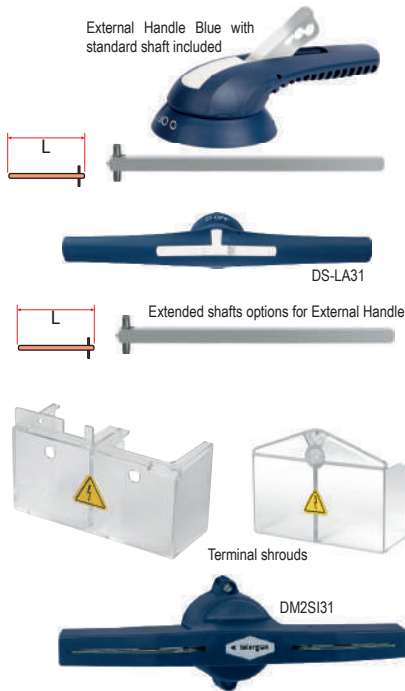
- 32 Amp to 800 Amp
- New Ergonomic Weatherproof Handle
- Pad lockable in Off Position
- 3-pole & Neutral (Fully rated 4th/Neutral Pole)
- Door Interlock Handle in On Position
- Shaft included with every Handle

M11 & M21 3P+N Base Mount Fused Switches



Product Code	AMPERAGE AC21	BS FUSE TYPE	Direct Handle
M1100323NBBA0	32 Amp	A1	DM1SI01
M1100633NBBB0	63 Amp	A2 - A3 (25mm)	DM1SI01
M1101003NBB00	100 Amp	A2 - A3	DM1SI01
M2101603NSB0	160 Amp	A4	DM2SI11
M2102003NSB0	200 Amp	B1 - B2	DM2SI11
M2102503NSB0	250 Amp	B1 - B2	DM2SI11
M2103153NSB40	315 Amp	B1 - B3	DM2SI21
M2104003NSB50	400 Amp	B1 - B4	DM2SI21
M2106303NSB70	630 Amp	C1 - C2	DM2SI31
M2108003NSB80	800 Amp	C1 - C3	DM2SI31

M11 & M21 Accessories



Product Code	AMPERAGE AC21
DS-SA02	32A–100A Door Interlocked Handle & 250mm Shaft (L)
DS-SA11	250A–400A Door Interlocked Handle & 227mm (L) Shaft
DS-LA22	250A–400A Door Interlock handle & 239mm shaft (L)
DS-LA31	630A–800A Door Interlocked Handle & 186mm Shaft (L)
DS-EP05	32A–160A Extension shaft 250mm (L)
DS-EP14	160A–250A Extension shaft 375mm (L)
DS-EP23	250A–800A Extension shaft 345mm (L)
DM2CU13	160A–250A Terminal Shroud
DM2CU23	315A–400A Terminal Shroud
DM2CU33	630A–800A Terminal Shroud
DM1SI01	32A–160A Direct Handle
DM2SI11	160A–250A Direct Handle
DM2SI21	250A–400A Direct Handle
DM2SI31	630A–800A Direct Handle

Terminal Shrouds for 32A to 100A Switches Not Required as Touch Proof Terminals | Terminal Shrouds, Order 1 set for Input and 1 Set for Output | Red & Yellow Handles and Defeatable Handles also available

Switch Disconnectors Din Rail Mounting Modular Padlockable Handle



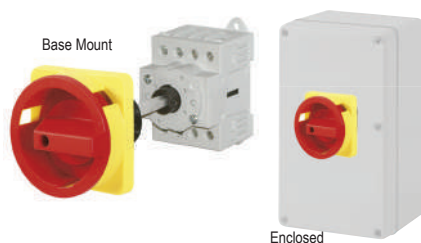
Product Code	Amps	Description
ZBK20SMAHN1A3	20	On-off switch DIN rail mounting modular padlock-able handle IP40, 3-pole
ZBK25SMAHN1A3	25	On-off switch DIN rail mounting modular padlock-able handle IP40, 3-pole
ZBK40SMAHN1A3	40	On-off switch DIN rail mounting modular padlock-able handle IP40, 3-pole
ZBK63SMAHN1A3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



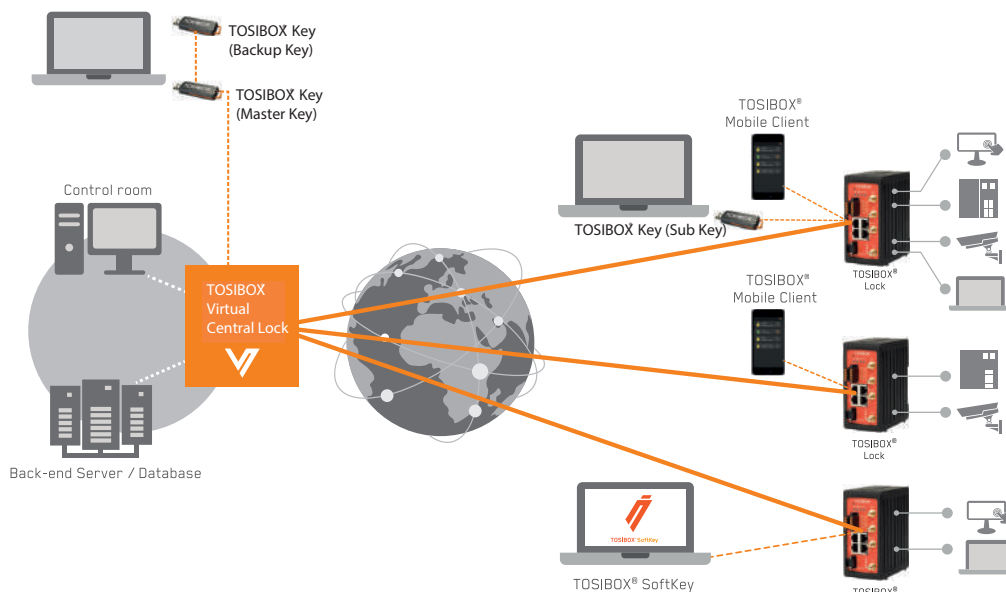
Base Mount		Enclosed	
Product Code	Description	Product Code	Description
ZBK25VZVHN4A8	Base mount/rear mount switch disconnector, padlockable handle, IP66, 25 Amps, 8-pole	ZBK25PFLHN4A8	Enclosed switch disconnector, padlockable handle, IP65, 25 Amps, 8-pole
ZBK40VZVHN4A8	Base mount/rear mount switch disconnector, 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
ZBK1H11	Auxiliary 1N/O + 1N/C
ZBKN40V	Neutral for 25–40 Amps switch disconnector, 8-pole
ZBKN80V	Neutral for 80 Amps 8-pole switch disconnector

How TOSIBOX works



TOSIBOX Locks & Accessories



Product Code	Description	Information
TBL15	TOSIBOX Lock 150	• 3x RJ-45 LAN connection, 10/100 Mb/s, auto-negotiation (MDI / MDI-X), • 10–30V DC $\pm 10\%$ (reverse polarity protected), • Supported 3G/4G USB modems: TOSIBOX® 3G modem, TOSIBOX® 4G modem
TBL2EU	TOSIBOX Lock 200	• 3x RJ-45 LAN connection, 10/100 Mb/s, auto-negotiation (MDI / MDI-X), • DC input power jack 5.5/2.1mm, 8–27V DC $\pm 10\%$, reverse polarity protected • PoE input 8–27V DC (WAN port), PoE output
TBL5iA	TOSIBOX Lock 500i	• 3x RJ-45 LAN connection, 10/100 Mb/s, auto-negotiation (MDI / MDI-X), • 12–48V DC (+/-20%), reverse polarity protected, • Frequency Bands (4G LTE): B1, B3, B5, B7, B8, B18, B19, B21, B8, B38, B39, B40, B41 • Dual SIM
TBK2	TOSIBOX key 200	Physical USB key
TB4GM8EU	TOSIBOX 4G modem	USB powerRed 4G modem that connects to lock
TB-GSMW01	TOSIBOX POS Antenn	TOSIBOX Antenna extension for 4G modem or Lock Wifi

TOSIBOX Softkey



Product Code	Description	Information
TBSKL1	TOSIBOX Softkey x1	Software version of key for one device
TBSKL5	TOSIBOX Softkey x5	Software version of key for 5 devices
TBSKL10	TOSIBOX Softkey x10	Software version of key for 10 devices
TBMC1	TOSIBOX Mobile client x1	TOSIBOX APP for devices

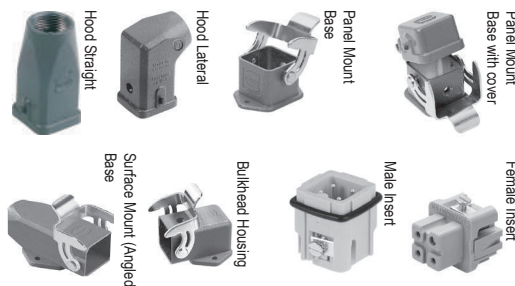
TOSIBOX Starter Kits

Product Code	Description	Information
TBSKIT150	TOSIBOX Lock 150 Starter Kit	TOSIBOX Lock 150 + Key 200 + Softkey x1
TBSKIT150MEU	TOSIBOX Lock 150 Starter Kit	TOSIBOX Lock 150 + Key 200 + Softkey x1 + 4G Modem
TBSKIT500A	TOSIBOX Lock 500i Starter Kit	TOSIBOX Lock 500i + Key 200 + Softkey x1

Heavy Duty Multipole Connectors

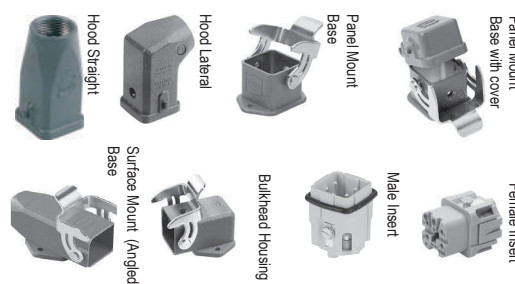
The HARTING Technology Group is skilled in the fields of electrical, electronic and optical connection, transmission and networking, as well as in manufacturing, mechatronics and software creation. The Group uses these skills to develop customised solutions and products such as connectors for energy and data transmission applications 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



Product Code	Description	Size
19200031440	4-pin Straight lateral, M20	3A
19200031640	4-pin Hood Lateral, M20 (90°)	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



Product Code	Description	Size
19200031440	5-pin hood straight, M20	3A
19200031640	5-pin hood lateral, M20 (90°)	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

6-pin Plugs | Size = HAN 6B



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



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	-



Inserts Crimped Han DD® (Male)

	Product Code	Insert	No. of Contacts	Identification of contacts	Wire Gauge	Termination	Size
 09160243001 09160423001 09160723001 09161083001	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 09160423101 09160723101 09161083101	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



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



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, Had D

FLEX Kabel

Heavy Duty Connectors | Screw Terminal | 4 pin plugs



Product Code	Size / Description
70MH-GTANL-A01B100	4 Pin Hood straight M20 single lever
70MH-GAANL-B000A00	4 Pin Panel mount Base single lever
70MH-GAAAL-B000000	4 Pin Surface mount Base M20 single lever
70MH-ES003-AS02010	4 Pin Male Insert
70MH-EB003-AS02010	4 Pin Female Insert

Heavy Duty Connectors | Screw Terminal | 6 pin plugs



Product Code	Size / Description
70MH-GTDNL-A02B000	6 Pin Hood Side Entry M20 single lever
70MH-GTDNL-A01B000	6 Pin Hood Single clip, top entry, M20 single lever
70MH-GTDNL-B000000	6 Pin Panel mount base Single clip single lever
70MH-ES006-DS03020	6 Pin Male insert
70MH-EB006-DS03020	6 Pin Female insert

Heavy Duty Connectors | Screw Terminal | 10 pin plugs



Product Code	Size / Description
70MH-GTENQ-A02B000	10 Pin hood, double clip, side entry, M20
70MH-GTENQ-A01B000	10 Pin hood, double clip, top entry, M20
70MH-GAENQ-B000000	10 Pin panel mount base, double clip
70MH-GSENQ-B01C000	10 Pin surface mount base, double clip, M25
70MH-ES010-ES03020	10 Pin male insert (screw)
70MH-EB010-ES03020	10 Pin female insert (screw)

Heavy Duty Connectors | Screw Terminal | 16 pin plugs



Product Code	Size / Description
70MH-GTFNQ-A02C000	16 Pin hood, double clip, side entry, M25
70MH-GTFNQ-A01C000	16 Pin hood, double clip, top entry, M25
70MH-GAFNQ-B000000	16 Pin panel mount base, double clip
70MH-GSFNQ-BO1C000	16 Pin surface mount base, double clip, M25
70MH-ES016-FS03020	16 Pin male insert (screw)
70MH-EB016-FS03020	16 Pin female insert (screw)

Heavy Duty Connectors | Screw Terminal | 24 pin plugs



Product Code	Size / Description
70MH-GTGNQ-A02C000	24 Pin hood, double clip, side entry, M25
70MH-GTGNQ-A01C000	24 Pin hood, double clip, top entry, M25
70MH-GAGNQ-B000000	24 Pin panel mount base, double clip M25
70MH-GSGNQ-B01C000	24 Pin surface mount base, double clip M25
70MH-ES024-GS03020	24 Pin male insert (screw)
70MH-EB024-GS03020	24 Pin female insert (screw)

Digital Timer Eliro® | Multifunction Digital Timer



Features

- Compact 17.5mm Wide
- Multi Function: (8 or 18) Non Signal & Signal based functions
- Multi-Voltage: 24 - 240V AC / DC
- Wide Timing Range: 0.1s to 999 Hr
- 3 Digit LCD for Preset time and Run time
- Option to select Up/Down counting
- Tamper proof with key lock feature

Technical Information

Product Code		V0DDTS	V0DDTS1
Functions		1) ON Delay 2) Cyclic OFF/ON 3) Cyclic ON/OFF 4) Signal ON/OFF 5) Signal OFF Delay 6) Interval 7) Signal OFF/ON 8) One Shot Output	1) ON Delay 2) Cyclic OFF/ON 3) Cyclic ON/OFF 4) Impulse on Energizing 5) Accumulative Delay on Signal 6) Accumulative Delay on Inverted Signal 7) Accumulative Impulse on Signal 8) Signal ON Delay 9) Inverted Signal ON Delay 10) Signal OFF Delay 11) Impulse ON/OFF 12) Signal OFF/ON 13) Leading Edge Impulse 1 14) Leading Edge Impulse 2 15) Trailing Edge Impulse 1 16) Trailing Edge Impulse 2 17) Delayed Impulse 18) Inverted Signal ON Delay
Supply Voltage		24-240V AC / DC	24-240V AC / DC
Timing Range		0.1s to 999h	0.1s to 999h
Output	Relay Output	1 C/O	1 C/O
	Contact Rating	8A @ 240V AC / 24V DC (Resistive)	8A @ 240V AC / 24V DC (Resistive)
LED Indication		Red LED Relay ON	Red LED Relay ON
Dimension (W x H x D)		18 x 85 x 76mm	18 x 85 x 76mm

Programmable Digital Timer Eliro® | Programmable Multifunction Timer



Features

- Digital 7-Segment display Supply Voltage range of 110–240V AC
- Input Signal Sensing range of 85–265V AC/100 265V DC & 20–60V AC/DC
- Inbuilt library of 33 functions covering majority applications
- Easy steps to program customised functions
- Suitable for Panel and Base/DIN mounting
- Two separate Channel outputs with selectable Timer modes
- Wide timing range - 0.1 Sec. to 999 Days
- Tamper proof with key lock feature
- Provision to edit Preset time during Run time
- Provision to save two independent functional Profiles (P1 & P2)

Technical Information

Product Code		V7DFTS3
Functions		1) On delay 2) On delay constant supply type 2 3) On delay constant supply type 3 4) On delay (control switch resettable) 5) Signal on delay 6) Inverted signal on delay 7) Inverted signal on delay type 2 8) Signal off delay 9) Off delay const. supply type 2 10) Cyclic on/off 11) Cyclic off /on 12) Asymmetric cycle pulse start 13) Asymmetric recycler pulse start type 2 14) Signal on off delay 15) Signal on off delay type 2 16) Signal off /on (new) 17) Impulse on energizing 18) Impulse on/off 19) Accumulative delay on signal 20) Accumulative delay on inverted signal 21) Accumulative impulse on signal 22) Leading edge impulse 23) Leading edge impulse 2 24) Trailing edge impulse 25) Trailing edge impulse 2 26) Delayed impulse 27) Delayed impulse type 2 28) Delayed pulse (constant supply) 29) Delayed pulse (remote trig.) 30) Delayed pulse (const. supply type 1) 31) On pulse (control switch resettable) 32) On pulse (supply reset)mode 33) Leading edge bi-stable or step relay 34) Forward - Reverse Mode with total time 35) Forward - Reverse Mode without total time
Supply Voltage		110–240V AC
Timing Range		0.1s to 999 days
Timing Accuracy		± 0.01%
Output	Relay Output	2 C/O
	Contact Rating	5A for NO & 3A for NC @ 250VAC/30VDC (Resistive.)
Dimension (W x H x D)		48 x 48 x 92.5mm
Weight (unpacked)		160g
Mounting		Panel / Flush Mountable



Electronic Timer - Series Micon® 175 | Multifunctional Timer



Features

- Multi Function: 10 Different (Non Signal & Signal based) Modes
- Wide Voltage range for both AC & DC
- Wide Time range: 0.1s - 100h
- LED Indications for Power and Relay status
- Independent settings for both ON Time & OFF Time
- Low Power Consumption

Technical Information

Product Code		1CMDT0	12WDT0C
Supply Voltage		12–240V AC/DC	240V AC / 24V AC/DC
Timing Range		0.1s to 100h	0.3s to 30h
Output	Relay Output	1 C/O	1 C/O
	Contact Rating	8A @ 240V AC / 24V DC (Resistive)	8A @ 240V AC / 24V DC (Resistive)
LED Indication		Red LED Relay ON	Red LED Relay ON
Dimension (W x H x D)		18 x 85 x 76mm	18 x 85 x 76mm
Weight (unpacked) Approx.		70g	70g
Mounting		DIN Rail	DIN Rail

Electronic Timer - Series Micon® 225 - Signal Based Multi - Function



Features

- Multi-function with Signal Start and Supply Start.
- 16 Timing Functions selected by DIP switch.
- Two independent relay outputs with either both relays timed or one timed and one instantaneous.
- Wide Input Signal & Supply range - 24–240V AC/DC.
- Wide Timing Range - 0.1s to 120 days.
- High timing accuracy.
- LED indicators for Power Supply & Relay Status.
- 22.5mm DIN Mount Housing.

Technical Information

Product Code		2A8DT6
Supply Voltage		110–240V AC
Supply Variation		-20% to +10%
Output	Relay Output	1 C/O (Delayed) & 1 C/O (Configurable as either Delayed or Instant)
	Contact Rating	5A @ 240V AC / 28V DC (Resistive)
Set Time		0.1 seconds to 120 Days

Digital Time Switches Crono® and Pulse®



Features

- Precise time programming for Daily/Weekly/Pulse switching
- 25 ON/OFF programs
- Weekend Exclusion (FRI SAT or SAT SUN) and Weekly OFF programming
- LED Indication of Relay status
- 12/24h display formats
- 6 Years Battery reserve
- Simple Reset & Manual override
- Settable DST & Keypad Lock Feature
- Comes in two variants 1 second and 1 minute

Technical Information

Product Code		67DDT0	67DDT9
Model		Crono	Pulse
Supply Voltage		110–240V AC	110–240V AC
Minimum Switching Time		1min.	1s
Number of Operating Modes		5	3
Description of Modes		• AUTO - Program Run • ON AUTO - Instant ON up to next Auto Event • AUTO OFF - Instant OFF up to next Auto Event • ON - Continuous ON • OFF - Continuous OFF	• AUTO - Program Run • ON - Continuous ON • OFF - Continuous OFF
Display		3 Lines Text LCD	3 Lines Text LCD
Clock Accuracy		± 2 s/day max. over the Operating Temperature range	
Power Reserve from Factory		6 Years	6 Years
Output	Relay Output	1 C/O	1 C/O
	Contact Rating	16A (For 'NO') & 5A (For 'NC') @ 240V AC / 24V DC (Resistive), Inductive (cos φ = 0.6): - 6A @ 250VA	
Dimension (W x H x D)		36 x 90 x 65mm	36 x 90 x 65mm
Weight (unpacked) Approx.		110g	110g
Mounting		Base / DIN rail	Base / DIN rail

Astronomical Time Switch Astro® + Mini



T2DDT7



T3DDT0

Feature

- Astronomical Time Switch in 35mm.
- Latitude/Longitude precise to the minute with time zone.
- Sunrise/Sunset or Twilight rise set trigger modes.
- Ease of Programming & Navigation.
- Password protection
- DST, Offset, OFF Hours, Weekly OFF features.
- 12/24 Hour display format.
- 6 years Battery reserve.
- Easy Manual Override & Keypad Lock feature.
- Ideal for Outdoor & Street lighting applications

Technical Information

Product Code	T2DDT7	T3DDT0
Supply Voltage	110–240V AC	110–240V AC (3 Phase, 4 Wire)
Programming	Based on Latitude/Longitude precise to the minute with time-zone.	Based on Latitude/Longitude precise to the minute with time-zone. (Modbus)
Trigger Modes	Sunrise/Sunset or Twilight Rise/Set	Sunrise/Sunset or Twilight Rise/Set
Offset	00 minutes to 99 minutes (Programmable)	1 minutes to 23hr 59 minutes (Programmable)
OFF Hours	Programmable	Programmable
Weekly Off	User Defined	User Defined
Number of Operating Modes	3	3
Description of Modes	• AUTO - As per user defined program settings • ON AUTO - Instant ON up to next Auto Event • AUTO OFF - Instant OFF up to next Auto Event	• AUTO - As per user defined program settings • ON AUTO - Instant ON up to next Auto Event • AUTO OFF - Instant OFF up to next Auto Event
Minimum Switching Time	1 min.	1 min. (1s for Pulse)
Display	3 Lines Text LCD	Backlit LCD
Clock Accuracy	± 2 s/day max. over the Operating Temperature range	± 1 s/day max. over the Operating Temperature range
Power Reserve from Factory	6 Years	6 Years
Output Relay Output	1 C/O	3 N/O independently
Contact Rating	16A (For 'NO') & 5A (For 'NC') @ 240V AC / 24V DC (Resistive), Inductive (cos φ = 0.6) :- 6A @ 250VA	8A @ 240V AC & 5A @ 30V DC (Resistive)
Dimension (W x H x D)	36 x 90 x 65mm	72 x 90 x 65mm
Weight (unpacked)	110g	208g
Mounting	Base / DIN rail	Base / DIN rail
Degree of Protection	IP20 for Terminals, IP40 for Enclosure, 50 On/Off programs, 10 holidays remote	IP20 for Terminals, IP40 for Enclosure

Digital Hour Meter & Counter

Features

- Wide supply voltage range: 9-30V DC, 85-265 V AC/DC
- Suitable for Hour Meter & Counter (Up/Down) application
- Preset & Alarm facility for both Hour Meter & Counter
- 7 Digit LCD with luxurious green backlight
- Relay & MOSFET Output with Over Load detection
- Wide input signal sensing range 0.01Hz to 20KHz
- Prescaling & Alarm facility for Rate Indicator & Totaliser



Technical Information

Product Code	Z2221N0G2FT00	
Signal Voltage Range	85–265V AC & 100–265V DC	
Signal Isolation	2VA / 1W	
Output type	Relay: 1 NO, Contact Rating: 5A(Res.) @ 250V AC / 30V DC Contact Material: Ag Alloy"	
Display	7 digit LCD , 6.5mm Height, 12 O' Clock, Transmissive	
Hour Meter Functions	Accuracy	± 2sec per Day
	Ranges	Hrs : Min : Sec (999:59:59), Hrs : Min. (99999:59), Hrs (9999999), Min. (99999999), Sec (9999999)
Counter Functions	Input Signal	For hour counting detection, signal has to be present for min. 3msec & signal has to be absent for 20 min.
	Accuracy	100%
	Range	1 to 9999999.999
	Decimal Point Position(max.)	3
Input	Pre-scaler	4 Digit
	Switching Freq.(max.)	10 Hz for AC and 40 Hz for DC
Signal	Pulse Width min.	50ms ON/50ms OFF for AC, 12.5ms ON/12.5ms OFF for DC
Mounting	Flush mounting on panel cut-out	
Panel Cut-out	22mm X 44.8mm	
Number of Keys	2 Set key and RST key	



RS232 to RS485 / RS 422 Converter



Features

- Input power supply range 9V DC to 26V DC
- Isolated RS485/RS422 on terminal block
- RS232 with DB9 female connector
- Auto direction control for RS485-2W transmission
- Galvanic Isolation of 1500V for RS485/RS422
- Supports Baud rate up to 230Kbps
- Internal 15kV ESD protection both RS232 and RS485/RS422
- LED Indication for transmit, receive signal communication traffic

Technical Information

Product Code	28B21A0
Connector (RS 232 Port)	D type 9 pin Female
Serial line protection (RS 232 Port)	Internal 15kV ESD
No. of Ports	1
RS 422	TX+, TX-, RX+, RX
RS 485	D+, D-
Serial line Protection	15kV ESD
Isolation	1500V Galvanic
Parity	None, Even, Odd, Space, Mark
Data Bits	5,6,7,8
Stop Bits	1,1.5,2
Speed	300 bps to 230 Kbps
Input Supply Voltage	9.4–26.4V DC
Dimension (W x H x D)	36 x 90 x 52.3mm
Mounting	Base / DIN rail

Isolated Relay Output Modules



Features

- Provides effective 3 way Isolation between supply, input switch & relay output.
- Provides isolation of dissimilar circuits.
- Enables control of multiple loads when only one relay output is available.
- Isolated Relays are mainly used in fire safety applications that interface with HVAC system, elevator controls and access control doors. It can also be integrated with PLC systems.

Technical Information

Product Code	IRLA02S	IRLA04S
Function	Protection Relay	Protection Relay
Supply Voltage	85–265V AC	85–265V AC
Output	Relay	Relay
	Contact Material	Contact Material
	1 C/O, 8A (Res.) @ 240V AC / 30V DC	1 C/O, 8A (Res.) @ 240V AC / 30V DC
	AgNi / AgSnO ₂ , Isolated output with two channel 2 C/O	AgNi / AgSnO ₂ , Isolated output with four channel 4 C/O
Mechanical Life Expectancy	3x 10 ⁷ Operations	3x 10 ⁷ Operations
Power Consumption	3VA	3.8VA

Signal Transducer



Features

- Input / Output configuration selected via DIP switch combinations
- Choice of multiple analogue input-output configurations
- Provides 3-way galvanic isolation of 3.75kV
- Fast output Response Time (<100ms)
- Sleek 22.5mm wide

Technical Information

Product Code	2SC3D11CC3
Supply Voltage	24V DC
Input Signal	0–10V DC, 2–10V DC, 0–20mA DC, 4–20mA DC
Input Impedance	Voltage I/P - 100K Ohm approx. Current I/P - 100 Ohm approx.
Output Signal	0–10V DC, 2–10V DC (min. 1 kOhm load) 0–20mA DC, 4–20mA DC (max. 500 Ohm load)
Accuracy	1% of full Scale
Offset	± 5% of full scale Adjustable
Gain	± 10% of full scale Adjustable
Linearity	<0.02% of full scale
Dimension (W x H x D)	22.5 x 83 x 100.5mm
Mounting	Base / DIN rail

Voltage Monitoring Series SM 175



Features

- Multi-Voltage: 3 Phase 3 Wire @ 208–480V AC and 3 Phase 4 Wire @ 120–277V AC
- Can be configured for 3 Phase 3 Wire or 3 Phase 4 Wire system
- Protects against Phase Loss, Phase Reversal & Phase Asymmetry
- Selectable Under Voltage / Over Voltage & Asymmetry
- LED Indication for all Faults & for change in settings during run time for better security
- Adjustable Time Delay
- 1 C/O Configuration

Technical Information

Product Code		MAG03D0424
Supply Voltage		208 to 480V AC (3P,3W) - 120 to 277V AC (3P,4W)
Trip Settings	Phase Loss	Yes
	Phase Sequence	Yes
	Phase Asymmetry	10% Fixed
	Under Voltage	2% to 22%
	Over Voltage	2% to 22%
	Hysteresis (Phase Asy.)	2.7% Fixed
	Hysteresis (UV/OV)	2% Fixed
Power Consumption (Max.)		16VA @ 415V AC
Time Delay	ON Delay	(0 to 15 Sec) settable / 5 sec (selectable DIP switch)
	Trip Time (OFF Delay)	5 sec / (0 to 15 Sec) settable (selectable DIP switch) 100ms max for Phase loss & Phase Sequence
Output	Relay Output	1 C/O
	Contact Rating	5A @ 250V AC / 30V DC (Resistive)
Dimension (W x H x D)		18 x 90 x 66.5mm
Mounting		Base / DIN rail

Voltage Monitoring Series

Features

- Protects against Phase Loss, Phase Reversal & Phase Asymmetry
- Can be configured for 3 Phase 4 Wire or 1 Phase system
- Selectable Over Voltage / Under Voltage Trip level
- Selectable Time Delay
- LED Indications for Power and Fault conditions
- Voltage Sensing principle
- 1 C/O or 2 C/O Configuration



Product Code		MD21DF	MG73BF	MAC04D0100
Model		SM 175	SM 500	SM 500 Neutral Loss Protection
Description		Phase Loss & Sequence with Selectable OFF Delay, 1 C/O	240V AC, UV / OV & SPP with Selectable OFF Delay (0.5 to 15 sec), 2 C/O	415V AC, Neutral Loss Protection with Phase and Voltage Control, 2 C/O
Supply Voltage		208 - 480V AC, (3 Phase 3 Wire)	240V AC (1 Phase & 3 Phase, 4 Wire)	415V AC (Ph-Ph); 3 Phase, 4 Wire
Settable Nominal Voltage		208 - 220 - 380 - 400 - 415 - 440 - 480V AC	-	-
Trip Levels	Phase Loss	Yes	Yes	Yes
	Phase Sequence	Yes	Yes	Yes
	Phase Asymmetry	-	10%	94V ± 4V (Ph-Ph)
	Under Voltage	-2% to -20%	55% to 95%	55% to 95%
	Over Voltage	+2% to +20%	105% to 125%	105% to 125%
Hysteresis		-	-	7V (± 2V)
ON Delay		5s	5s	5s ± 1s (Fixed)
Trip Time (OFF Delay)		0.5 to 15s (Selectable)	0.5 to 15s (Selectable)	For Phase failure phase Imbalance Under voltage / Over Voltage
Relay Output		1 C/O	2 C/O	2 C/O
Contact Rating		5A @ 250V AC / 30V DC (Resistive)	5A @ 250V AC / 28V DC (Resistive)	5A @ 250V AC / 28V DC (Resistive)

PID Temperature Controller Series PR 69 | PiD Temperature Controller



Features

- Universal Input
- Configurable Output combination
- Configurable: Band, Deviation, Sensor break & Loop break alarms
- Single/Dual acting PID controllers with 5 Control modes
- Auto-tuning PID with provision for Soft-Start 193
- 6 Segment Ramp & Soak profile with Power Failure resumption modes
- Rapid Set Point change feature
- RS 485 Communication
- Bumpless Auto-Manual transfer
- IP20 (for Terminals & Enclosure) IP40 (for Front Panel only)

Technical Information

Product Code	151A13B1
Supply Voltage	110–240V AC
Control Action	ON/OFF (Symmetric / Asymmetric), PID (Single / Dual Acting)
Tuning Method	Auto Tuning / Manual Tuning
Temperature sensors / Inputs	Thermocouple: J, K, E, S, B, R; RTD: PT100 - 3 wire compensation; Analogue Signal DC: (0–50mV, 0–60mV, 12–60mV)
Measurement Range	Sensor J: 0 to 700°C, Sensor K: 0 to 1300°C, Sensor E: 0 to 600°C, Sensor R: 0 to 1750°C, Sensor S: 0 to 1750°C, Sensor B: 250 to 1820°C, Sensor PT100 3 wire: -200 to 700°C
Resolution	0.1°C for RTD, J,E & 1° for S,B,K & 0.001°C for mV signals
Output 1	Relay: SPST, 8A @ 240V AC / 28V DC
Output 2	Relay: SPST, 5A @ 240V AC / 28V DC
Output 3	SSR: 12V DC, 24mA, Short Circuit Protection
Ramp Soak Feature	6 Segment Ramp Soak Profile
RS 485 Communication	RS 485 Communication

ON-OFF Temperature Controller Series PR 43 | Basic



Features

- Highly Accurate Performance.
- Luxurious Single 3-digit LED Display.
- Wide supply range: 110-240VAC (Un), -20 to +10% of Un.
- Front keypad with 4 keys.
- Thermocouple (J & K)/RTD 3-wire (Pt-100) sensor inputs.
- Control Modes: Proportional, ON-OFF Asymmetric, ON-OFF Symmetric.
- °C temperature unit selectable
- Control Output: Relay & SSR Drive (Individual products)

Technical Information

Product Code	151G11B
Supply Voltage	110 - 240V AC
Control Action	ON/OFF (Symmetric / Asymmetric) & Proportional
Temperature sensors / Inputs	Thermocouple: J, K ; RTD: PT100 - 3 wire compensation;
Measurement Range	Sensor J: -5°C to 750°C, Sensor K: -20°C to 850°C, Sensor PT100 3 wire: - 100°C to 650°C
Output 1	Relay: 1 C/O 5A @ 240V AC / 30V DC

PT-100 Temperature Control Relay



Features

- Wide operating Supply Range 24V to 240V AC/DC.
- Two analog outputs of 0 to 10V DC.
- Sensor Fault detection (open/short) indication through LED's as well as Analog outputs.
- LED Indications for power ON and relay ON status display.
- Adjustable wide temperature range from -50°C to 300°C through DIP switches.
- Auto/Manual reset mode selectable through DIP switch.
- Relay Normal/Inversion mode selectable through DIP switch.
- High load switching capacity of output up to 10A.

Technical Information

Product Code	47A3D412
Supply Voltage	24V to 240V AC/ DC (±15%)
Temperature Drift	Max. 0.05°C/°C
Temperature Ranges	-50°C to 50°C, 0°C to 100°C, 100°C to 200°C, 200°C to 300°C
Set Point	0%-20%-40%-60%-80%-100%
Hysteresis	2%-5%-8%-11%-14%-17%-20%
Contact Arrangement	1 C/O
Contact Ratings	10A @ 250V AC / 30V DC, 4KV Isolation between Coil & Contact.
Response Time(Trip Delay)	minutes 600ms to 1 sec.
Measured Point (Y1)	(0-10) V DC ± 200mV
Set Point (Y2)	(0-10) V DC ± 100mV - In case of sensor Fault (Open/Short) Measured Point output (Y1) is 12V DC.

Temperature Control Relay



Features

- Wide ambient Temperature monitoring & controlling range with inbuilt temperature sensor.
- Protection Relay against variations of the ambient temperature set point (StH & StL)
- NO-5A and NC - 3A
- 3 digit LCD display for Real time Temperature Indication.
- User adjustable offset (-10°C to +10°C)
- LED indication for Relay Trip.
- Relay on/off

Technical Information

Product Code	41A111AR
Number of set points	Double SP
Supply Voltage	110 - 240V AC, -20% to +10%
Sensor	Inbuilt Temperature Sensor
Display Resolution	0.1°C
Accuracy	± 3°C Max.
Temperate Measurement	-10°C to +55°C

Switched Mode Power Supply

Features

- Excellent Load & Line Regulation
- High Noise Immunity & Low Ripple
- No Load Power Consumption of less than 0.5W
- Overload & Short Circuit Protection
- High Efficiency of Operation
- Suitable for Temperatures up to 55°C
- Small Form Factor
- Peak Power Capacity
- Compact Design with DIN Mounting

Technical Information



Product Code	24BS24AD4E	24BS241D2F	24BS24BD1F
Supply Voltage	110–240V AC, -30% to +15%	110–240V AC, -30% to +15%	110–240V AC, -30% to +15%
Voltage	24V DC	24V DC	24V DC
Rated Current	2.5A	1A	0.5A
Rated Power	60W	24W	12W
Current Range	2.5A	1A	0.5A
Output Voltage Accuracy	± 1%	± 1%	± 1%
Line Regulation	1%	1%	1%
Load Regulation	1%	1%	1%
Ripple & Noise	150mV (P-P)	150mV (P-P)	150mV (P-P)
Over Voltage Protection	26V–38V	26V–38V	26V–38V
Over Load Capacity	160% of rated output (Max. 10s)	160% of rated output (Max. 10s)	160% of rated output (Max. 10s)

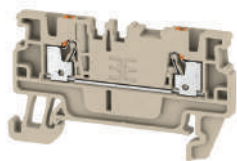
Three Phase Indicator



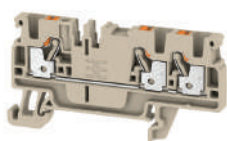
Technical Information

Product Code	MM3ND
Supply Voltage	240V AC
Power	1.8W
Number of Indicators	3 (Red)
Display Resolution	0.1°C
Size	17.5 x 90 x 65mm
Temperate Measurement	-25°C to +80°C
Mounting	DIN rail

A-Series Feed Through Terminals



TYPE A2C



TYPE A3C



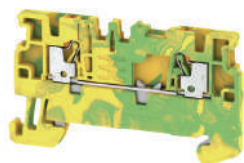
TYPE A4C

A-Series Push In Technology Terminals

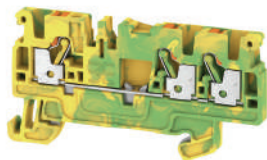
Product Code	Description
1552790000	1.5mm ² Feed-through terminal, PUSH IN, 500V, 17.5A, Dark Beige, A2C
1552740000	1.5mm ² Feed-through terminal, PUSH IN, 500V, 17.5A, Dark Beige, A3C
1552690000	1.5mm ² Feed-through terminal, PUSH IN, 500V, 17.5A, Dark Beige, A4C
1521850000	2.5mm ² Feed-through terminal, PUSH IN, 800V, 24A, Dark Beige, A2C
1521740000	2.5mm ² Feed-through terminal, PUSH IN, 800V, 24A, Dark Beige, A3C
1521690000	2.5mm ² Feed-through terminal, PUSH IN, 800V, 24A, Dark Beige, A4C
2051180000	4mm ² Feed-through terminal, PUSH IN, 800V, 32A, Dark Beige, A2C
2051240000	4mm ² Feed-through terminal, PUSH IN, 800V, 32A, Dark Beige, A3C
2051500000	4mm ² Feed-through terminal, PUSH IN, 800V, 32A, Dark Beige, A4C
1992110000	6mm ² Feed-through terminal, PUSH IN, 800V, 41A, Dark Beige, A2C
1991820000	6mm ² Feed-through terminal, PUSH IN, 800V, 41A, Dark Beige, A3C
1991780000	6mm ² Feed-through terminal, PUSH IN, 800V, 41A, Dark Beige, A4C (no end plate required)
2490360000	10mm ² Feed-through terminal, PUSH IN, 1000V, 57A, Dark Beige, A2C
2490520000	10mm ² Feed-through terminal, PUSH IN, 1000V, 57A, Dark Beige, A3C
2494000000	16mm ² Feed-through terminal, PUSH IN, 1000V, 76A, Dark Beige, A2C
2494090000	16mm ² Feed-through terminal, PUSH IN, 1000V, 76A, Dark Beige, A3C
2551510000	35mm ² Feed-through terminal, PUSH IN, 1000V, 125A, Dark Beige, A2C (No end plate needed)

A-Series Earth Terminal Blocks

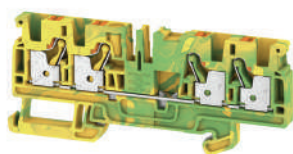
Product Code	Description
1552680000	1.5mm ² PE terminal, PUSH IN, Green/Yellow, 500V, Clamping Range 0.14 / 1.5mm ² , A2C
1552670000	1.5mm ² PE terminal, PUSH IN, Green/Yellow, 500V, Clamping Range 0.14 / 1.5mm ² , A3C
1552660000	1.5mm ² PE terminal, PUSH IN, Green/Yellow, 500V, Clamping Range 0.14 / 1.5mm ² , A4C
1521680000	2.5mm ² PE terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.14 / 2.5mm ² , A2C
1521670000	2.5mm ² PE terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.14 / 2.5mm ² , A3C
1521540000	2.5mm ² PE terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.14 / 2.5mm ² , A4C
2051360000	4mm ² PE terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.5 / 4mm ² , A2C
2051410000	4mm ² PE terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.5 / 4mm ² , A3C
2051560000	4mm ² PE terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.5 / 4mm ² , A4C
1991810000	6mm ² PE terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.5 / 6mm ² , A2C
1991850000	6mm ² PE terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.5 / 6mm ² , A3C
2490440000	10mm ² PE terminal, PUSH IN, Green/Yellow, 1000V, Clamping Range 0.5 / 10mm ² , A2C
2490590000	10mm ² PE terminal, PUSH IN, Green/Yellow, 1000V, Clamping Range 0.5 / 10mm ² , A3C
2494010000	16mm ² PE terminal, PUSH IN, Green/Yellow, 1000V, Clamping Range 0.5 / 16mm ² , A2C
2494020000	16mm ² PE terminal, PUSH IN, Green/Yellow, 1000V, Clamping Range 0.5 / 16mm ² , A3C
2551520000	35mm ² PE terminal, PUSH IN, Green/Yellow, 1000V, Clamping Range 2.5 / 35mm ² , A2C



TYPE A2C



TYPE A3C



TYPE A4C

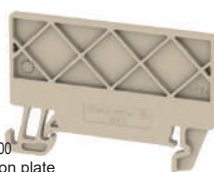
A-Series Feed Through Terminals



2490380000
End plate



1991920000
End Bracket



2488970000
Seperation plate



2489090000
Seperation plate



2489110000
Seperation plate



2489100000
Seperation plate



2497250000
2 way Cross Connector



1985490000
4 way Cross Connector



1527620000
5 way Cross Connector



1527690000
10 way Cross Connector



1527720000
20 way Cross Connector

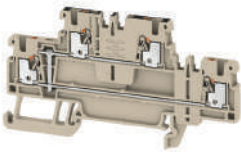
A-Series Terminal Accessories | Push In Technology Terminals

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

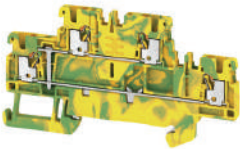
Product Code	Description
2469370000	1.5mm², Double-tier terminal, PUSH IN, 500V, 16A, Dark Beige, A2T
2469400000	1.5mm², Double-tier terminal, PUSH IN, 500V, 16A, Dark Beige, A2T, Levels cross-connected internally
1547610000	2.5mm², Double-tier terminal, PUSH IN, 800V, 24A, Dark Beige, A2T
1547640000	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

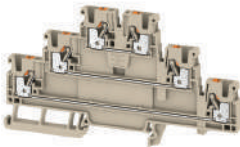
Product Code	Description
2469410000	1.5mm², Earth Double-tier terminal, PUSH IN, Green/Yellow, 500V, Clamping Range 0.14/ 1.5mm², A2T
1547680000	2.5mm², Earth Double-tier terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.14/ 2.5mm², A2T
2539990000	4mm², Earth Double-tier terminal, PUSH IN, Green/Yellow,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



2469410000

A-Series Three Tier Modular Terminal

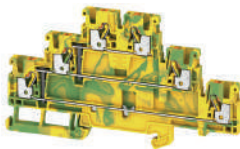
Product Code	Description
2428510000	2.5mm², Triple-tier terminal, PUSH IN, 800V, 22A, Dark Beige, A3T
2428540000	2.5mm², Triple-tier terminal, PUSH IN, 800V, 22A, Dark Beige, A3T, Levels cross-connected internally
2428530000	2.5mm², Triple-tier terminal, PUSH IN, 800V, 22A, Dark Beige, A3T Earth Function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



2428510000

A-Series Three Tier Modular Earth Terminal

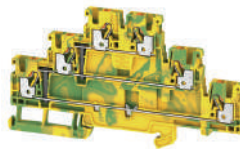
Product Code	Description
2428550000	2.5mm², Earth Triple-tier terminal, PUSH IN, Green/Yellow, 800V, Clamping Range 0.14 / 2.5mm², A3T



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, 4mm ² , 250V, 6.3A, Black without Led Indication



2429860000

A-Series Test – Disconnect Terminals

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



1989800000

A-Series Test – Disconnect Accessories

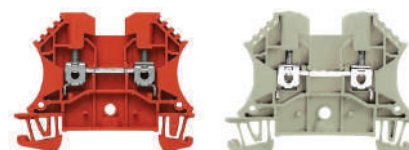
Product Code	Description
1521530000	A-Series Test Disconnect End Plate, 2C, Dark Beige
1989970000	A-Series Test Disconnect End Plate, 3C, Dark Beige
1989980000	A-Series Test Disconnect End Plate, 4C, Dark Beige



1989970000

W-Series Feed Through Terminals

Screw Connection Technology Terminals



1020040000

1020000000



1020010000

1036800000



1020090000

1020080000



1037300000

1024500000

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



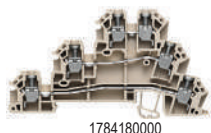
1037300000



1846030000

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



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

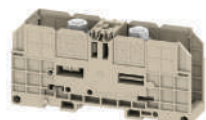
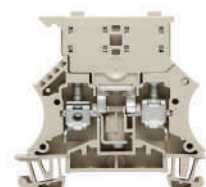
Product Code	Description	Technical Details
1855610000	WTR 2.5 Beige (disconnect terminal)	Imax 14A / Umax 800V / 2.5mm ²
8731640000	WTR 2.5 Blue (disconnect terminal)	Imax 14A / Umax 800V / 2.5mm ²
1050000000	End plate Beige	WAP 2.5–10, Beige
1050080000	End plate Blue	WAP 2.5–10, Blue
1693880000	Cross 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



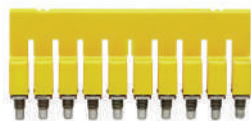
W-Series Feed Through Terminals

Weidmüller


The Interface Partner

W-Series Accessories

Product Code	Description
1053660000	W-SeriesCross Connect WQV 2.5mm ² 2 Way, Rated current 32A
1053860000	W-SeriesCross Connect WQV 2.5mm ² 4 Way, Rated current 32A
1053960000	W-SeriesCross Connect WQV 2.5mm ² 5 Way, Rated current 32A
1054460000	W-SeriesCross Connect WQV 2.5mm ² 10 Way, Rated current 32A
1577570000	W-SeriesCross Connect WQV 2.5mm ² 20 Way, Rated current 32A
1051960000	W-SeriesCross Connect WQV 4mm ² 2 Way, Rated current 41A
1054660000	W-SeriesCross Connect WQV 4mm ² 4 Way, Rated current 41A
1057860000	W-SeriesCross Connect WQV 4mm ² 5 Way, Rated current 41A
1052060000	W-SeriesCross Connect WQV 4mm ² 10 Way, Rated current 41A
1052360000	W-SeriesCross Connect WQV 6mm ² 2 Way, Rated current 57A
1054860000	W-SeriesCross Connect WQV 6mm ² 4 Way, Rated current 57A
1062660000	W-SeriesCross Connect WQV 6mm ² 5 Way, Rated current 57A
1052260000	W-SeriesCross Connect WQV 6mm ² 10 Way, Rated current 57A
1052560000	W-SeriesCross Connect WQV 10mm ² 2 Way, Rated current 76A
1055060000	W-SeriesCross Connect WQV 10mm ² 4 Way, Rated current 76A
1052460000	W-SeriesCross Connect WQV 10mm ² 10 Way, Rated current 76A
1053260000	W-SeriesCross Connect WQV 16mm ² 2 Way, Rated current 101A
1055260000	W-SeriesCross Connect WQV 16mm ² 4 Way, Rated current 101A
1053360000	W-SeriesCross Connect WQV 16mm ² 10 Way, Rated current 101A
1053060000	W-SeriesCross Connect WQV 35mm ² 2 Way, Rated current 125A
1055460000	W-SeriesCross Connect WQV 35mm ² 4 Way, Rated current 125A
1053160000	W-SeriesCross Connect WQV 35mm ² 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
1059000000	W-SeriesEnd Stop for TS35 Rail
1061200000	W-SeriesEnd Stop for TS35 Rail
0292460000	Group Marker 19,5mm, Wide Marker, SCHAT5
1631930000	Group Marker 9,5mm, Slim Marker, SCHAT5S
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



1054460000 | Cross Connector with screws



1905150000



1050000000



1784210000



1880450000



1059000000



0383560000



1061200000



0292460000



1065100000



1064660000

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 1 & 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

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



7760056106



7760056107



Printing Systems



1324380000



2599430000

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

Consumables Printjet Advanced



1338720000

Product Code	Description
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



1027110000

Product Code	Description
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 THM MMP | Economy Printer



1331600000



1302920000



2005090000

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



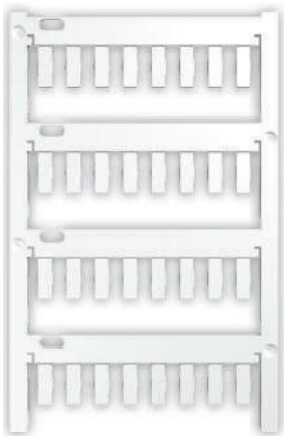
Terminal Markers | Printjet Advanced



1609801044

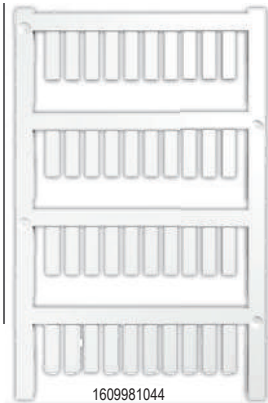
Product Code	Description	Technical Data	Packing Qty
1609801044	DEK 5/5 MC-10 NEUT. WS	WEIDMULLER 5 x 5mm	200
1609820000	DEK 5/6 MC-10 NEUT.WS	WEIDMULLER 5 x 6mm	200
1609840000	DEK 5/6.5 MC NEUT.WS	WEIDMULLER 5 x 6.5mm	180
1856740000	DEK 5/8 MC NEUT.WS	WEIDMULLER 5 x 8mm	64

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.			

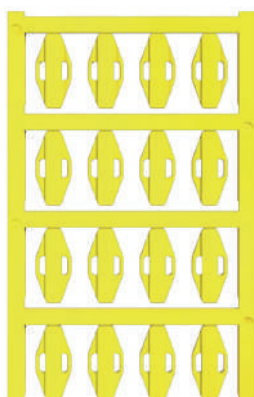
Terminal Markers WS | Printjet Advanced



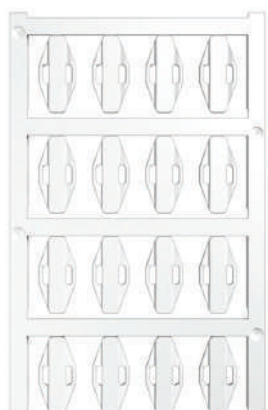
1635000000

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

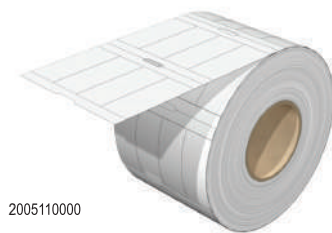
THM Markers | Economy Printer

Primer Required For Cleaning Prior To Printing

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



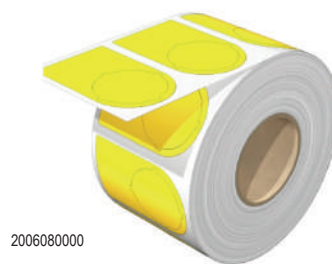
2005110000



2005110000



2005340000



2006080000



2005450000

Slotted Cable Trunking (Narrow Slot) – Economy



Product Code	Description (W x H)	Length*	Product Code	Description (W x H)	Length*
ONKA-7180	25 x 30mm Narrow slot trunking	2m, 84L	ONKA-7177	60 x 40mm Narrow slot trunking	2m, 40L
ONKA-7181	25 x 40mm Narrow slot trunking	2m, 84L	ONKA-7185	60 x 60mm Narrow slot trunking	2m, 24L
ONKA-7182	25 x 60mm Narrow slot trunking	2m, 48L	ONKA-7188	60 x 80mm Narrow slot trunking	2m, 24L
ONKA-7183	40 x 40mm Narrow slot trunking	2m, 60L	ONKA-7187	80 x 60mm Narrow slot trunking	2m, 24L
ONKA-7184	40 x 60mm Narrow slot trunking	2m, 36L	ONKA-7178	80 x 80mm Narrow slot trunking	2m, 24L
ONKA-7186	40 x 80mm Narrow slot trunking	2m, 40L	ONKA-7179	100 x 60mm Narrow slot trunking	2m, 24L

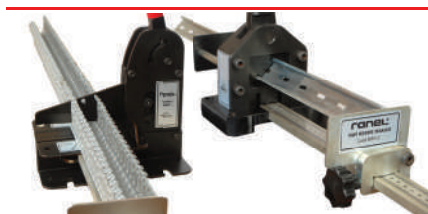
Cover included | *1 Slotted cable trunking is 2m length and **L is the quantity found in a box.

Slotted Cable Trunking (Covers only)



Product Code	Description	Length
ONKA-7290	25mm (Width) Slotted Trunking covers only	2m
ONKA-7291	40mm (Width) Slotted Trunking covers only	2m
ONKA-7292	60mm (Width) Slotted Trunking covers only	2m
ONKA-7293	80mm (Width) Slotted Trunking covers only	2m
ONKA-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-P	Twin	Insulated twin cord end terminal 2x 1mm, Red	500
ONKA-8166-P	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

MRK Series Screw Rail Terminal Blocks



Screw Connection Rail Terminal Blocks

Product Code	Model	Description	Contact	Cable strip L.	Torque	Voltage	Current	Colour	Pcs
ONKA-1012	MRK2.5	Screw Connection	CK45	10mm	0,4Nm	750V	24A	Grey	100
ONKA-1022	MRK4	Screw Connection	CK45 Steel	10mm	0,5Nm	750V	32A	Grey	100
ONKA-1032	MRK6	Screw Connection	CK45 Steel	12mm	0,8Nm	750V	41A	Grey	100
ONKA-1042	MRK10	Screw Connection	CK45 Steel	12mm	0,8Nm	750V	57A	Grey	100
ONKA-1132	MRK16	Screw Connection	CK45 Steel	18mm	2,0Nm	750V	76A	Grey	50
ONKA-1062	MRK35	Screw Connection	CK45 Steel	18mm	2,0Nm	750V	125A	Grey	30
ONKA-1072	MRK50	Screw Connection	DKP	18mm	6,0Nm	750V	150A	Grey	20
ONKA-1082	MRK70	Screw Connection	DKP	20mm	6,0Nm	750V	192A	Grey	20
ONKA-1092	MRK95	Screw Connection	DKP	20mm	6,0Nm	1000V	232A	Grey	10
ONKA-1102	MRK120	Screw Connection	DKP	20mm	6,0Nm	1000V	269A	Grey	10

Body material PA6.6 | Bridge material Copper | Temperature -40°C to 140°C | * Built in end plate incorporated in terminals.



Type Double Rail Terminal Blocks | Screw Type

Product Code	Model	Description	Contact	Cable strip L.	Torque	Voltage	Current	Colour	Pcs
ONKA-1612	MRK-D2,5	Type Double Rail	CK45 Steel	9mm	0,4Nm	750V	24A	Grey	50

Body material PA6.6 | Bridge material Copper | Temperature -40°C to 140°C



Screw Connection Fused Rail Terminal Blocks | 5 x 20mm Fuse

Product Code	Model	Description	Contact	Cable strip L.	Torque	Voltage	Current	Colour	Pcs
ONKA-1322	MRK-S6	Screw Connection fused without LED	CK45 Steel	10mm	0,8Nm	750V AC/DC	6,3A	Grey	100
ONKA-1352	MRK-S6	Screw Connection fused with LED	CK45 Steel	10mm	0,8Nm	24V AC/DC	6,3A	Grey	100
ONKA-1402	MRK-S6	Screw Connection fused with LED	CK45 Steel	10mm	0,8Nm	220V AC/DC	6,3A	Grey	100

Body material PA6.6 | Bridge material Copper | Temperature -40°C to 140°C | Fuses ordered separately



Screw Connection Earth Rail Terminal Blocks

Product Code	Model	Description	Contact	Cable strip L.	Torque	Voltage	Current	Colour	Pcs
ONKA-1291	MTK2.5	Earth Rail	CK45 Steel	9mm	0,4Nm	750V	-	-	100
ONKA-1293	MTK4	Earth Rail	CK45 Steel	9mm	0,5Nm	750V	-	-	100
ONKA-1294	MTK10	Earth Rail	CK45 Steel	10mm	0,8Nm	750V	-	-	100
ONKA-1295	MTK16	Earth Rail	CK45 Steel	16mm	1,2Nm	750V	-	-	50
ONKA-1296	MTK35	Earth Rail	CK45 Steel	16mm	1,2Nm	750V	-	-	30

Body material PA6.6 | Bridge material Copper | Temperature -40°C to 140°C

Accessories for MRK Series Screw Rail Terminal Blocks | Cross Connector | Stopper | Group Sticker | Bridge

	Description	Product Code Cross Connector	Section (mm/Way)	pcs	Product Code Stopper	Product Code Group Sticker
	Accessory for MRK2.5 Screw Connection model	ONKA-1928	2,5/10	30	ONKA-1202	-
	Accessory for MRK4 Screw Connection model	ONKA-1933	4/10 way	30	ONKA-1202	ONKA-1232
	Accessory for MRK6 Screw Connection model	ONKA-1938	6/10 way	15	ONKA-1202	ONKA-1232
	Accessory for MRK10 Screw Connection model	ONKA-1943	10/10 way	15	ONKA-1202	ONKA-1232
	Accessory for MRK16 Screw Connection model	ONKA-2265	16/10 way	10	ONKA-1202	ONKA-1232
	Accessory for MRK35 Screw Connection model	ONKA-2274	35/10 way	10	ONKA-1202	ONKA-1232
	Accessory for MRK50 Screw Connection model	-	-	-	ONKA-1202	ONKA-1232
	Accessory for MRK70 Screw Connection model	-	-	-	ONKA-1202	ONKA-1232
	Accessory for MRK95 Screw Connection model	-	-	-	ONKA-1202	ONKA-1232
	Accessory for MRK120 Screw Connection model	-	-	-	ONKA-1202	ONKA-1232
	Accessory for MRK-D2,5 Type Double Rail Terminal Blocks model. To complete set order Bridge with product code 1622	ONKA-1928	2,5/10	30	ONKA-1202	ONKA-1232
	Accessory for MRK-S 6 Screw Connection Fused Rail Terminal Blocks	-	-	-	ONKA-1202	ONKA-1232
	Accessory for MTK 2,5 Screw Connection Earth Rail Terminal Blocks	-	-	-	ONKA-1202	ONKA-1232
	Accessory for MTK 4 Screw Connection Earth Rail Terminal Blocks	-	-	-	ONKA-1202	ONKA-1232
	Accessory for MTK 10 Screw Connection Earth Rail Terminal Blocks	-	-	-	ONKA-1202	ONKA-1232
	Accessory for MTK 16 Screw Connection Earth Rail Terminal Blocks	-	-	-	ONKA-1202	ONKA-1232
	Accessory for MTK 35 Screw Connection Earth Rail Terminal Blocks	-	-	-	ONKA-1202	ONKA-1232

MRK and OPK Series

	Product Code	Type	Body	Screw	Temperature	Pcs
	ONKA-1232	Stopper With Group Sticker	PA	Steel	-40 °C, +140 °C	100
	ONKA-1202	Screwless Stopper	PA	Stainless Steel	-40 °C, +140 °C	100

Group Marker | Holder

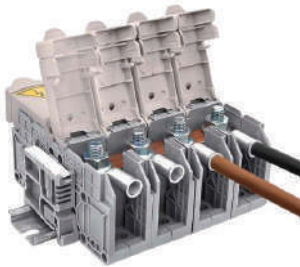
	Product Code	Body	Temperature	Pcs
	ONKA-1482	PC	-40 °C, +140 °C	100

MRK Series Separation Plate



Product Code	Body	Temperature	Pcs	Dimensions (W x H)
ONKA-0582	PA	-40 °C, +140 °C	25	52 x 48mm

MRK Series Stud Terminal Blocks For Cable Lugs (With Cover)



Product Code	Section	Voltage	Current	Bolt	Dimensions
ONKA-2302	25mm²	1000V	101A	M6	107 x 50,8 x 35 x 40 x 27 x 58,5 x 76,5 x 16,3mm
ONKA-2322	35mm²	1000V	125A	M8	107 x 50,8 x 35 x 40 x 27 x 58,5 x 76,5 x 16,3mm
ONKA-2342	50mm²	1000V	150A	M8	107 x 50,8 x 35 x 40 x 27 x 58,5 x 76,5 x 16,3mm
ONKA-2362	70mm²	1000V	192A	M8	131,5 x 60,8 x 35 x 44,7 x 31,5 x 68,5 x 86,2 x 17,3mm
ONKA-2382	95mm²	1000V	232A	M8	131,5 x 60,8 x 35 x 44,7 x 31,5 x 68,2 x 86,2 x 17,3mm
ONKA-2402	120mm²	1000V	269A	M10	139,5 x 70 x 35 x 60 x 41,4 x 79 x 94,6 x 17,3mm
ONKA-2422	150mm²	1000V	309A	M12	139,5 x 70 x 35 x 60 x 41,4 x 79 x 94,6 x 17,3mm
ONKA-2442	185mm²	1000V	353A	M12	163,5 x 77,5 x 35 x 60 x 55 x 92 x 96 x 26,4mm
ONKA-2462	240mm²	1000V	415A	M12	163,5 x 77,5 x 35 x 60 x 55 x 92 x 96 x 26,4mm
Material: PA6.6 Body, Leg & Cover Steel Bolts & Nuts Bridge Copper					

Accessories for MRK Series Stud Terminal Blocks



Product Code	Descriptions	Temperature	Body	Pcs
ONKA-1202	Stopper, Stainless Steel	-40°C, +140°C	PA	100
ONKA-1232	Group Sticker	-40 °C, +140 °C	PA	100
ONKA-9770	Marking	-40 °C, +140 °C		300
ONKA-4440	Marking	-40 °C, +140 °C		720
ONKA-4442	Marking	-40 °C, +140 °C		
ONKA-9540	Marking	-40 °C, +140 °C		500



Disconnect Terminal



Product Code	Descriptions	Temperature	Body	Pcs
ONKA-1316	6mm disconnect terminal	-40°C, +140°C	PA	100

KombiSIGN 71 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

(LED) Permanent Light Element / Standard | Integrated



Product Code	Voltage	Product Code	Voltage	Colour
644.100.75	24V DC	644.100.68	230V AC	Red
644.200.75	24V DC	644.200.68	230V AC	Green
644.300.75	24V DC	644.300.68	230V AC	Yellow
644.400.75	24V DC	644.400.68	230V AC	Clear
644.500.75	24V DC	644.500.68	230V AC	Blue

Buzzer Element



Product Code	Description
645.800.75	85dB, 25 RNA, IP65, continuous or pulse tone, 24V DC
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

KombiSIGN 72 Signal Towers | 70mm Diameter



Your benefits

There is no need to compromise with the KombiSIGN 72, because this product combines quick installation, excellent visibility and the highest level of flexibility. This saves time and money with regard to installation and order logistics.

- In ClassicLOOK to suit all machine surfaces
- Clearly visible from all positions thanks to the OmniVIEW lens with no blind spots
- Easy, intuitive installation—incorrect assembly is practically impossible (Poka Yoke)
- IP65

Optical Elements TwinFLASH (LED Permanent or Blinking) 24V AC / DC



Product Code	Colour	Description
647.110.75	Red	Optical lens change function via DIP-switch for permanent to blinking
647.210.75	Green	Optical lens change function via DIP-switch for permanent to blinking
647.310.75	Yellow	Optical lens change function via DIP-switch for permanent to blinking
647.430.75	White	Optical lens change function via DIP-switch for permanent to blinking
647.510.75	Blue	Optical lens change function via DIP-switch for permanent to blinking

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.

KombiSIGN 40–Optical Signal Elements (40mm Diameter)



Your benefits

There is no need to compromise with the KombiSIGN 40, because WERMA has combined quick installation, excellent visibility and the highest level of flexibility in this product. This saves time and money with regard to installation and order logistics.

- No more blind spots with the Omniview lens DesignLOOK and ClassicLOOK provide the appropriate signal tower for your application
- TwinLIGHT and TwinFLASH combine two light effects in one element
- Change with DIP-switch from one to another e.g. TwinFLASH = blink or permanent
- IP69K

Modular Lense | ClassicLOOK LED (Intergrated) & DesignLOOK



Product Code	Type	Product Code	Type	TwinFlash*	Voltage	Dimensions
634.110.75	ClassicLOOK	634.130.75	DesignLOOK	Red	24V AC/DC	40 x 58.6mm
634.210.75	ClassicLOOK	634.230.75	DesignLOOK	Green	24V AC/DC	40 x 58.6mm
634.310.75	ClassicLOOK	634.330.75	DesignLOOK	Yellow	24V AC/DC	40 x 58.6mm
634.430.75	ClassicLOOK	634.430.75	DesignLOOK	White	24V AC/DC	40 x 58.6mm
634.510.75	ClassicLOOK	634.530.75	DesignLOOK	Blue	24V AC/DC	40 x 58.6mm

*Permanent or blinking. | Can be set via DIP-switch.

Multicolour | 7 Possible Colours In Single Element



Product Code	Type	Voltage
634.450.55	Clear	24V DC
Permanent		

KombiSIGN 40–Optical Signal Elements (Siren) | ClassicLOOK



Product Code	Tone Siren	Dimensions (Ø x Height)	Sound Output	Tone Type	Voltage	Current Consumption
635.800.75	2	40 x 45mm	85dB	Continuous or pulse tone, can be set via DIP-Switch	24V AC / DC	80mA
635.810.75	8	40 x 68mm	89–95dB, can be set via DIP-Switch	8 tones, can be set via DIP-Switch	24V AC / DC	200mA

KombiSIGN 40–Terminal Elements Accessories



630.810.00



630.810.00



630.820.00

Product Code Description ClassicLOOK

630.800.75	Terminal element, Push in Terminals
630.810.00	KombiSIGN 40 ClassicLOOK adapter for base mounting
630.820.00	KombiSIGN 40 ClassicLOOK adapter for single hole mounting
630.830.00	KombiSIGN 40 ClassicLOOK adapter for tube mounting
975.845.10	KombiSIGN 40 Aluminium rod, diameter 25mm, 100mm length

KombiSIGN 40 - Accessories



630.630.03



630.630.02

630.630.01

Product Code	Description
960.630.03	Extension tube
960.630.02	Bracket for assembly on aluminum profiles
960.630.01	Bracket for concealed cable entry

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

Permanent / Traffic Light Beacon (E27)



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.

Permanent / Traffic Light Beacon



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

Installation Buzzer



Product Code	Voltage	Dimensions (Ø x Height)	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

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

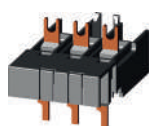
Contactors For Switching Motors, Screw-Type Connection



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	○ I	2 switch positions, latching (90°)	Metal
3SU1052-2BC60-0AA0	○ I	2 switch positions, momentary contact type (45°), Spring return	Metal
3SU1052-2BL60-0AA0	○ I II	3 switch positions, latching (2x45°), Spring return to center	Metal
3SU1052-2BM60-0AA0	○ I II	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	Auxiliary (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 lite – The low-cost basic power supply| Single Phase



Product Code	Output Voltage / Current	Input Rated Voltage	Dimensions
6EP1332-1LB00	DC 24 V / 2.5 A, PSU100L	1AC 120 / 230V (AC 93 ... 132V / 187 ... 264V)	32.5 x 125 x 120mm
6EP1333-1LB00	DC 24 V / 5 A, PSU100L		50 x 125 x 120mm
6EP1334-1LB00	DC 24 V / 10 A, PSU100L	1 AC 120/240 V (AC 85 ... 264 V / DC 88 ... 370 V)	70 x 125 x 120mm
6EP1336-1LB00	DC 24 V / 20 A, PSU100L		110 x 125 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
6AV6647-0AH11-3AX0	KP300 Basic mono PN, black and white LCD, 3", profinet interface.
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)



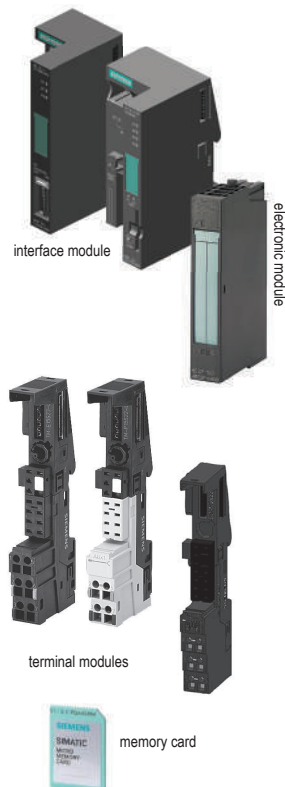
SIMATIC NET | Industrial Ethernet Fast Connect cables with plugs 4 x 2



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



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 DC24V/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

CPU



base unit



digital module

analogue input module



analogue output module



bus adapter



communication module



memory card



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 - 25 mm 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

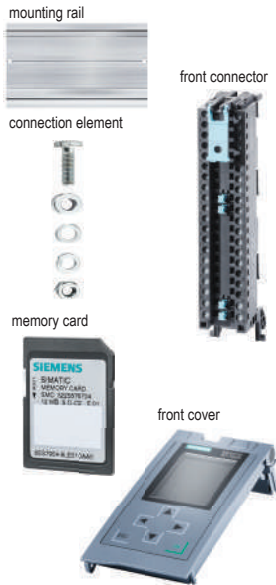
Product Code	Description
6ES7540-1AD00-0AA0	CM PtP, RS232 BA
6ES7540-1AD00-0AB0	CM PtP, RS232 HF
6ES7541-1AB00-0AA0	CM PtP, RS422/485 BA
6ES7541-1AB00-0AB0	CM PtP, RS422/485 HF
6GK7542-5DX00-0XE0	CM 1542-5, PB DP master (PROFIBUS)-The communication module CM 1542-5 extends the SIMATIC S7-1500 control 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



Front plug-in module

Connection cable

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 (0.5mm ² with screw connection), 2.5m
6ES7922-5BC50-0HC0	Front plug with 40 single cores halogen-free (0.5mm ² with screw connection), 2.5m
6ES7922-5BD20-0UC0	Front plug with 40 single cores UL/CSA certified (0.5mm ² with screw connection), 3.2m
6ES7922-5BC50-0AB0	Front plug with 20 single cores (0.5mm ² with screw connection), 2.5m
6ES7922-5BC50-0HB0	Front plug with 20 single cores halogen-free (0.5mm ² with screw connection), 2.5m
6ES7922-5BD20-0UB0	Front plug with 20 single cores UL/CSA certified (0.5mm ² 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. Colors, 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)
6SL3210-5BE13-7UV0	0.37kW	0.5hp	1.3A	FSA without fan	150 x 90 x 145.5mm
6SL3210-5BE15-5UV0	0.55kW	0.75hp	1.7A	FSA without fan	150 x 90 x 145.5mm
6SL3210-5BE17-5UV0	0.75kW	1.0hp	2.2A	FSA without fan	150 x 90 x 145.5mm
6SL3210-5BE21-1UV0	1.1kW	1.5hp	3.1A	FSA with one fan	166 x 90 x 145.5mm
6SL3210-5BE21-5UV0	1.5kW	2.0hp	4.1A	FSA with one fan	166 x 90 x 145.5mm
6SL3210-5BE22-2UV0	2.2kW	3.0hp	5.6A	FSA with one fan	166 x 90 x 145.5mm
6SL3210-5BE23-0UV0	3.0kW	4.0hp	7.3A	FSB with one fan	160 x 140 x 164.5mm
6SL3210-5BE24-0UV0	4.0kW	5.0hp	8.8 / 8.24A	FSB with one fan	160 x 140 x 164.5mm
6SL3210-5BE25-5UV0	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
6SL3210-5BB22-2UV0	2.2kW	3.0hp	11.0 A	FSC with one fan	182 x 184 x 169mm
6SL3210-5BB23-0UV0	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 D 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 D 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 D 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 D 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...0.16 A	LC1D09...D38
LRD02	Class 10A	0.16...0.25 A	LC1D09...D38
LRD03	Class 10A	0.25...0.40 A	LC1D09...D38
LRD04	Class 10A	0.40...0.63 A	LC1D09...D38
LRD05	Class 10A	0.63...1 A	LC1D09...D38
LRD06	Class 10A	1...1.7 A	LC1D09...D38
LRD07	Class 10A	1.6...2.5 A	LC1D09...D38
LRD08	Class 10A	2.5...4 A	LC1D09...D38
LRD10	Class 10A	4...6 A	LC1D09...D38
LRD12	Class 10A	5.5...8 A	LC1D09...D38
LRD14	Class 10A	7...10 A	LC1D09...D38
LRD16	Class 10A	9...13 A	LC1D12...D38
LRD21	Class 10A	12...18 A	LC1D18...D38
LRD22	Class 10A	16...24 A	LC1D25...D38
LRD32	Class 10A	23...32 A	LC1D25...D38
LRD35	Class 10A	30...38 A	LC1D32 and D38
LRD3361	Class 10A	55...70 A	D50...D95
LRD3363	Class 10A	63...80 A	D65...D95
LRD3365	Class 10A	80...104 A	D80 and D95

Tesys D 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	Motor Power	Breaking Capacity	Rated Short-circuit	Motor 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 D GV2 Manual Starter

Rotary handle Thermal-magnetic motor circuit 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	Magnetic 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 D GV2 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 D GV2 & GV3 Accessories



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

Tesys D 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 D 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

EasyPact TVS | 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 **EasyPact TVS**.

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

EasyPact TVS 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	

EasyPact 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

EasyPact TVS Thermal Overload Relays



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



EasyPact TVS Thermal Overload Relays Accessories



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

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, 45 mm pitch
LV563401	4P	600A	EasyPact CVS600 NA, 45 mm pitch

EasyPact CVS Accessories | 400/630



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



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 Aux 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

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

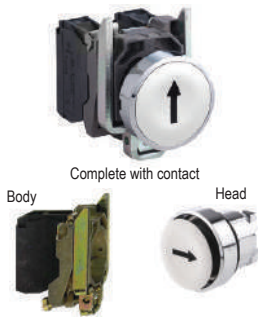
Booted Flush Mounting Pushbuttons Unmarked | Screw clamp terminals



Complete with contact

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 separately



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 separately

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 separately

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	Product Code	Voltage	Product Code	Voltage	Colour
ZBVB1	24V AC/DC	ZBVG1	110...120V AC	ZBVM1	230...240V AC	White
ZBVB3	24V AC/DC	ZBVG3	110...120V AC	ZBVM3	230...240V AC	Green
ZBVB4	24V AC/DC	ZBVG4	110...120V AC	ZBVM4	230...240V AC	Red

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	Ø60 mm 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



Cable solutions

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



Marking YSLYJZ05004B - FLEXKABEL 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 (Braided Screen)



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

Application:

Shielded wiring cable for measuring and controlling suitable for tool machinery, conveyor belts and production lines, for installations of air conditioning and in steel production plants and rolling mills. Flexible use with medium mechanical stresses, without tensile stress or forced movements in dry, moist and wet rooms as well as outdoor (fixed installation). Is not suitable to be used directly underground or as underwater cable. Cores have been numbered in such a way that the numbers are easily readable, even if the cable has been unsheathed a few cm. Core numbers have been underlined to avoid confusion. Earth wire is located in the outer layer. The black outer sheath is made with special PVC resistant to the ultra violet radiations.



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 0.64mm ² Purple (Fixed installation)	8.0mm	74.0kg / km	500m

**LAPPKABEL**

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)

**LAPPKABEL**

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)



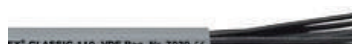
Product Code	Cores	Drum Length	Outer Diameter
1119614	4G 10 (3+E)	500m	16.2mm
1119615	5G 10(4+E)	500m	18.1mm

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

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

ART ETHERLINE® Y Flex CAT.5e 4x2xAWG26/7

ONIC LIYCY (TP)



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

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

Metal Conduits Flexible Insulated (Black & Orange) Ribbed

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.
360141710-BLACK	360141710-ORANGE	13.5mm	M16	25M	TSP16/BL	TSP16/O	R-ESR-M2
360161710-BLACK	360161710-ORANGE	15.5mm	M20	25M	TSP20/BL	TSP20/O	R-ESR-M3
360211710-BLACK	360211710-ORANGE	20.5mm	M25	25M	TSP25/BL	TSP25/O	R-ESR-M4
360262013-BLACK	360262013-ORANGE	25.5mm	M32	10M	TSP32/BL	TSP32/O	R-ESR-M5
360352013-BLACK	360352013-ORANGE	35mm	M40	10M	TSP40/BL	TSP40/O	R-ESR-M6

Straight Fixed Glands Steel

Product Code	Gland Exit	External Conduit Ø	Internal Conduit Ø	Description	Flexkabel Conduit Ref.	Product Code
R-ESR-M2	M16	M16x1.5	M13.5	Fixed glands, straight	360141710	R-SLK-G1.M2
R-ESR-M3	M20	M20x1.5	M15.5	Fixed glands, straight	360161710	R-SLK-G2.M3
R-ESR-M4	M25	M25x1.5	M20.5	Fixed glands, straight	360211710	R-SLK-G3.M4
R-ESR-M5	M32	M32x1.5	M25.5	Fixed glands, straight	360262013	R-SLK-G4.M5
R-ESR-M6	M40	M40x1.5	M35	Fixed glands, straight	360352013	R-SLK-G5.M6

Locknuts included.

**Straight Swivel Glands Steel**

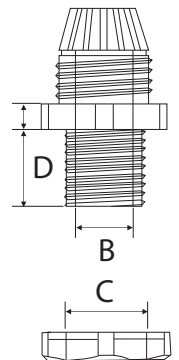
Product Code	Gland Exit	External Conduit Ø	Internal Conduit Ø	Description	Flexkabel Conduit Ref.	Product Code
R-EDR-M2	M16	M16x1.5	M13.5	Swivel glands, straight	360141710	R-DSLK-G2.M2
R-EDR-M3	M20	M20x1.5	M15.5	Swivel glands, straight	360161710	R-DSLK-G3.M3
R-EDR-M4	M25	M25x1.5	M20.5	Swivel glands, straight	360211710	R-DSLK-G4.M4
R-EDR-M5	M32	M32x1.5	M25.5	Swivel glands, straight	360262013	R-DSLK-G5.M5
R-EDR-M6	M40	M40x1.5	M35	Swivel glands, straight	360352013	R-DSLK-G6.M6

Locknuts included.

**Metric Thread 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
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
For RAL 9005****Description**

M12-IBL	Black Insert for M12 gland
M16-IBL	Black Insert for M16 gland
M20-IBL	Black Insert for M20 gland
M25-IBL	Black Insert for M25 gland
M32-IBL	Black Insert for M32 gland
M40-IBL	Black Insert for M40 gland
M63-IBL	Red Insert for M63 gland

Vent Plugs**Product Code****Size****Colour**

M12-Vent	M12 x 1.5	RAL 7035
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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
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Uni Split Gland**Gland Splittable****Product Code****Connection**

USG22554PC	M25 x 1.5 (Gland body splittable), IP67
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**Lock nut splittable**

1420/225GGM	M25 x 1.5 (Locknut splittable), IP67
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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-12M16	M16 straight cable gland	M16
PAGOB-17M20	M20 straight cable gland	M20
PAGOB-17M25	M25 straight cable gland	M25
PAGOB-23M25	M25 straight cable gland	M25
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)



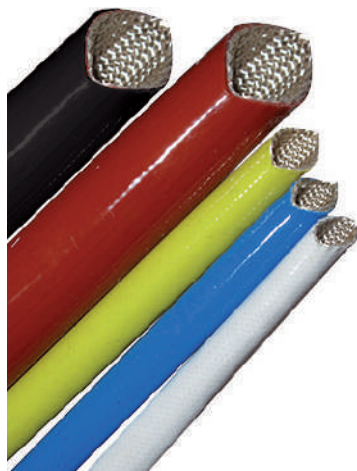
Product Code	Nominal Width	Internal Diameter	External Diameter	Qty.
PPRTB-17	17 nw	15,1mm (int.)	21,3mm (out)	50m
PPRTB-24	24 nw	24mm (int.)	31,5mm (out)	50m
PPRTB-29	29 nw	26,6mm (int.)	34,4mm (out)	25m
Other sizes / diameters are available, please enquire.				



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 1.5 x 6MM BLACK	6mm	Working temperature: from -60°C to +250°C, Black	100m
SCS1.5 x 8MM	8mm	Working temperature: from -60°C to +250°C, Red	100m
SCS1.5 x 10MM	10mm	Working temperature: from -60°C to +250°C, Red	100m
SCS 1.5 x 10MM BLACK	10mm	Working temperature: from -60°C to +250°C, Black	100m
SCS1.5 x 12MM	12mm	Working temperature: from -60°C to +250°C, Red	100m
SCS 1.5 x 12MM BLACK	12mm	Working temperature: from -60°C to +250°C, Black	100m
SCS1.5 x 16MM	16mm	Working temperature: from -60°C to +250°C, Red	50m
SCS1.5 x 20MM	20mm	Working temperature: from -60°C to +250°C, Red	50m
SCS 1.5 x 20MM 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
SCS1.5 x 40MM	40mm	Working temperature: from -60°C to +250°C, Red	30m
SCS3Kv-40MM	40mm	Working temperature: from -60°C to +250°C, Red	30m
SCS3Kv-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

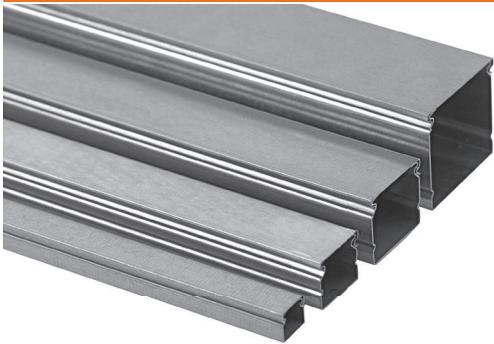
Temperature range (-60°C to +450°C)

Pinchweld Rubber



Product Code	Diameter	Description	Coil
PR118	1–6mm	Pinchweld Rubber	Per/M

PIK-Trunking



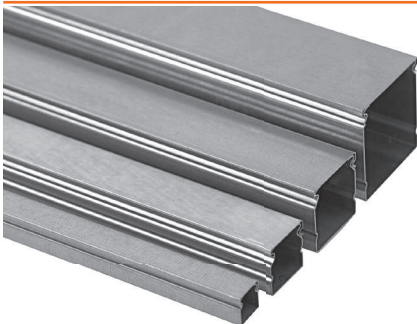
Description

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)



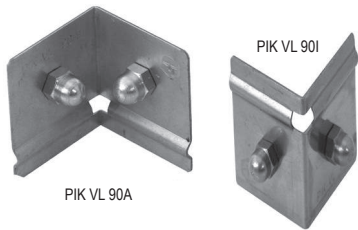
Product Code	Description	Length
PIK 15/15 S	15 x 15mm	2m
PIK 30/30 S	30 x 30mm	2m
PIK 40/40 S	40 x 40mm	2m
PIK 60/60 S	60 x 60mm	2m
PIK 60/40 S	60 x 40mm	2m
PIK 80/60 S	80 x 60mm	2m
PIK 100/60 S	100 x 60mm	2m
PIK 120/60 S	120 x 60mm	2m
PIK 150/60 S	150 x 60mm	2m
PIK 200/60 S	200 x 60mm	2m
*Galvanised steel.		

PIK Cover Only



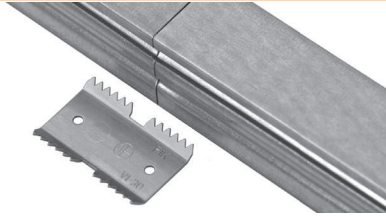
Product Code	Description	Length
PIK D 15/15 S	15 x 15mm	2m
PIK D 30/30 S	30 x 30mm	2m
PIK D 40/40 S	40 x 40mm	2m
PIK D 60/60 S	60 x 60mm	2m
PIK D 60/40 S	60 x 40mm	2m
PIK D 80/60 S	80 x 60mm	2m
PIK D 100/60 S	100 x 60mm	2m
PIK D 120/60 S	120 x 60mm	2m
PIK D 150/60 S	150 x 60mm	2m
PIK D 200/60 S	200 x 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



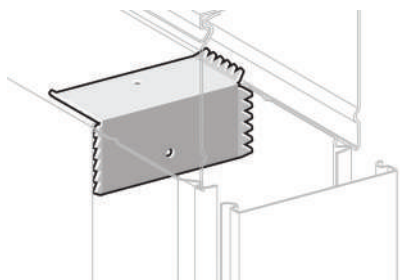
Product Code	Description
PIK EK 15/15	TPE, 15 x 15mm, sold per each
PIK EK 30/30	TPE, 30 x 30mm, sold per each
PIK EK 40/40	TPE, 40 x 40mm, sold per each
PIK EK 60/60	TPE, 60 x 60mm, sold per each
PIK EK 60/40	TPE, 60 x 40mm, sold per each
PIK EK 80/60	TPE, 80 x 60mm, sold per each
PIK EK 100/60	TPE, 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



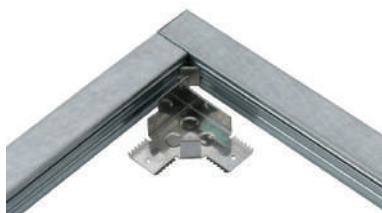
Product Code	Description
PIK KSSV 30	TPE, 15 x 12mm opening
PIK KSSV 40	TPE, 20 x 19mm opening
PIK KSSV 60	TPE, 35 x 39mm opening
The plastic edge protection protects the cables and lines against damage by the sheet edges at the lateral openings.	

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.	

Shield Clamp On Clip Foot



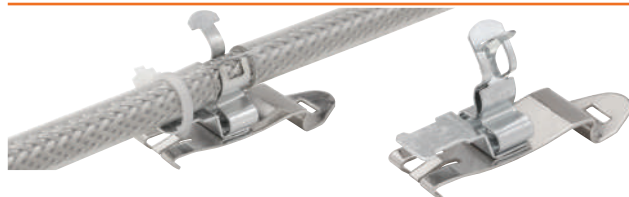
Description: The shield clamp on clip foot can be snapped onto a 35mm DIN rail without the use of tools. Just press the cable shield into the shield clamp to achieve a safe contact.

Advantages: Constant contact with cable shield due to spring pressure.

Ordering Information

Product Code	Item Description	Shield Diameter	PU
1030-011	SKH 3-12	3-12mm, Shield clamp multi	10

Shield Clamp On Clip Foot With Strain Relief

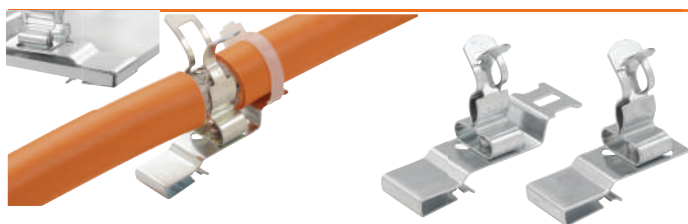


Advantages: Constant contact with cable shield due to spring pressure. Excellent conductance of high-frequency interferences. Strain relief by using a cable tie on the cable sheath.

Ordering Information

Product Code	Item Description	Shield Diameter	PU
1031-011	SKHZ 3-12	3-12mm, Shield clamp Multi	10

HEBOCLIP Uno For Busbar Or Sheet Edge



Description: Snap the HEBOCLIP Uno into place on the 10 x 3mm busbar or sheet edge and push the cable shield into the shield clamp. A secure hold is achieved because of the special profile. The clip is also available for 10 x 1.5mm busbars or varying sheet thickness.

Ordering Information

Product Code	Item Description	Shield Diameter	PU
1025-112	HSEZ 3-6	3-6mm, with strain relief	10
1025-128	HSE 3-12	3-12mm	10

Shield Clamp For Direct Assembly

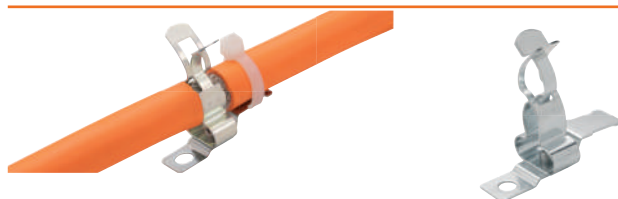


Advantages: Direct assembly with an M4 or M5 screw

Ordering Information

Product Code	Item Description	Shield Diameter	PU
1022-311	SKD 4 3-12	M4, shield diameter 3-12mm	10

Shield Clamp For Direct Assembly With Strain Relief



Advantages: Direct assembly with an M4 or M5 screw

Ordering Information

Product Code	Item Description	Shield Diameter	PU
1022-211	SKDZ 4 3-12	M4, shield diameter 3-12mm	10

M8 / M12 Mounting Clip For Direct Assembly Stackable

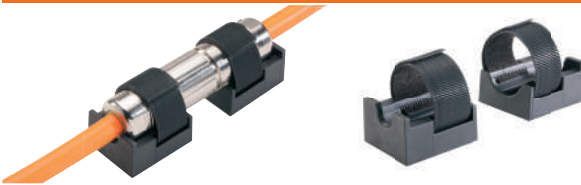

Description:

The Mounting clip for direct assembly serves as an installation support for the secure fixing of industrial connectors. It is available in two sizes for M8 or M12 connectors. The clip can be mounted with a cylinder screw. Following this, the M8 or M12 connector is simply pressed in from above.

Ordering Information

Product Code	Item Description	Detailed Description	PU
3014-102	SHD 8 4	For M8 connectors, for boring M4	10
3014-104	SHD 12 4	For M12 connectors, for boring M4	10

M17 / M23 Mounting Bracket Big


Description:

The Mounting Bracket Big for direct assembly serves as an installation help for the secure fixing of M17- and M23-connectors. Two brackets can be mounted with a M6 cylinder screw to insert the connector between the stops of the brackets. Following this, the hook-and-loop tape is strapped around the connector, then plugged through the duct of the bracket and fastened.

Ordering Information

Product Code	Item Description	Detailed Description	PU
3014-210-145	SHBD 17/23 6	Boring for M6, set consists of two brackets	5

Hook-And-Loop Tape


Description:

Hook-and-loop tape of polypropylene in high quality can be reused hundreds of times. The tape on reel can be cut to the required length, **self-extinguishing according to UL94-V2**.

Ordering Information

Product Code	Item Description	Dimension	PU
11-KE10025FRT	Hook-and-loop tape on reel FRT	10mm	25m
11-KE20025FRT	Hook-and-loop tape on reel FRT	20mm	25m
11-KE30025FRT	Hook-and-loop tape on reel FRT	30mm	25m

HEBOFIX Base For Hook-And-Loop Tape

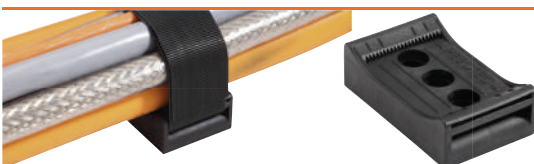

Advantages:

Variable length of the hook-and-loop tape, or already assembled with hook-and-loop tape. Provides a tangle-free and protective cable installation. Reusable. Cable bundles can be extended easily. Easy handling. Reduced risk of injuries compared to the use of cut off cable binders.

Ordering Information

Product Code	Item Description	Detailed Description	PU
3011-002	KBS 4–20 10	Clamping range 4–20mm, hook-and-loop tape 150 x 10mm, M4	10
3011-004	KBS 8–35 20	Clamping range 8–35mm, hook-and-loop tape 20mm, M4 or M5	10
3011-006	KBS 10–60 20	Clamping range 10–60mm, hook-and-loop tape 20mm, M4 or M5	10

HEBOFIX Base Big For Hook-And-Loop Tape


Advantages:

Direct assembly with an M4 or M5 screw

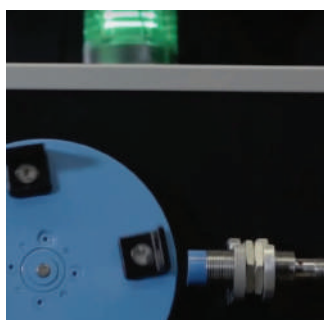
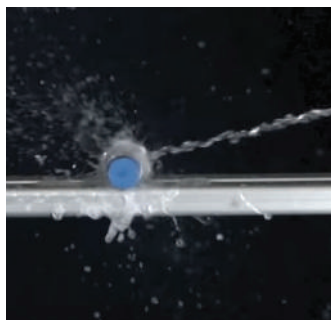
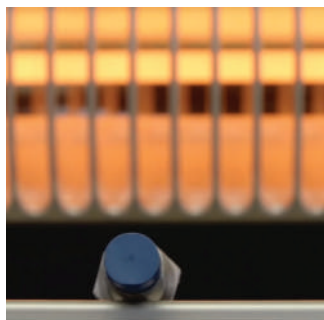
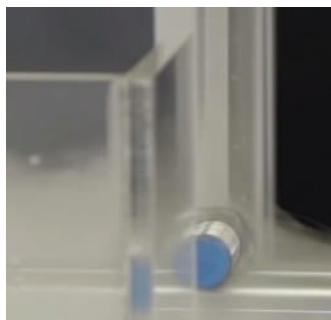
Ordering Information

Product Code	Item Description	Detailed Description	PU
3011-010	KBS 20–100 30	Clamping range 20–100mm, hook-and-loop tape 30mm, M6	10



Sensing & switching

IMB – Inductive Sensors (Standard)



Inductive sensors have to be tough enough to cope with anything that's thrown at them. So it's about time that one took the lead and showed the others how it's done. The IMB from SICK is both more resilient on the outside and more intelligent on the inside, boasting levels of chemical and mechanical resistance unmatched by any other device of the same construction, allowing it to withstand lubricants, oils, and coolants, as well as extreme temperatures and weather conditions. The IMB effortlessly defies the preconception that tough guys aren't very intelligent, with its ASIC technology and the option of communication via IO-Link: Making its switching as reliable as its exterior is rugged. It doesn't matter how extreme the conditions are at your installation location – from now on the focus is on the survival of the smartest rather than the fittest. We think that's intelligent.

Protected against water

- IP 68 and IP 69K enclosure rating due to sealing concept

Mechanically rugged

- High tightening torque and strength due to stainless steel housing

Resistant against cooling lubricant

- Resistant against all common cutting oils and cooling lubricant

Visual installation aid

- LED indicates when the secured Sensing range has been reached

Wide temperature range

- Digital temperature compensation with SICK-ASIC technology

Shock and vibration resistant

- Shock resistant up to 150g

Corrosion resistant

- Long-lasting due to stainless steel housing

IO-Link compatible

- Option of communicating via IO-Link 1.0

M4 | M5 Inductives



Product Code	Dimensions	Mounting	Rated Operating Distance	Assured Operating Distance	Voltage Range	Connection	Output
6042085	M4 x 22mm	Flush	0.6mm	0.46mm	10–30V DC	0.2 PUR 2 meter 3 wire (cable open ended)	PNP Normally Open
6020145	M4 x 22mm	Flush	0.6mm	0.46mm	10–30V DC	2M 3wire PUR (cable open ended)	PNP Normally Open
6049739	M5 x 38mm	Flush	1.5mm	1.2mm	10–30V DC	M8 3-pin	PNP Normally Open
6049735	M5 x 25mm	Flush	1.5mm	1.2mm	10–30V DC	2M 3wire PUR (cable open ended)	PNP Normally Open

M8 Inductives



Product Code	Dimensions	Mounting	Rated Operating Distance Sn	Assured Operating Distance	Voltage Range	Connection	Output
6020112	M8 x 29mm	Flush	1.5mm	1.2mm	10–30V DC	M8 3-pin	PNP Normally Open
1070168	M8 x 50mm	Flush	2mm	1.6mm	10–30V DC	M8 3-pin	PNP Normally Open
1072673	M8 x 60mm	Flush	2mm	1.6mm	10–30V DC	M12 4-pin	PNP Normally Open
1072592	M8 x 50mm	Non-Flush	4mm	3.2mm	10–30V DC	M8 3-pin	PNP Normally Open

M12 Inductives | IMB – Inductive Sensors



Product Code	Dimensions	Mounting	Rated Operating Distance Sn	Assured Operating Distance	Voltage Range	Connection	Output
1072763	M12 x 65mm	Flush	4mm	3.2mm	10–30V DC	M12 4-pin	PNP Normally Open
1067206	M12 x 71mm	Flush	2mm	1.6mm	25V AC–250V AC	M12 4-pin	PNP Normally Open
1072747	M12 x 45mm	Flush	4mm	3.2mm	10–30V DC	M12 4-pin	PNP Normally Open
1040780	M12 x 65mm	Non-Flush	8mm	6.4mm	10–300V DC	M12 4-pin	PNP Normally Open

A metal bracket with a circular hole and two slots.

Rugged and flat in 80 x 80mm housing. | Operating distance adjustable to 60mm. | Wire configurable NO or NC function. | Terminal or M12 connection. | DC and AC/DC versions available. | Size = 80 x 105 x 40mm.

Distance Sensor



- Wide measurement ranges up to 10, 20 or 50m in combination with different interfaces allow an easy and fast integration in any production environment
- Highly reliable and precise measurement helps to increase process quality and stability
- High measurement or switching frequencies enable a fast material flow
- Dx50 product family is based on a common platform, offering multiple performance levels, making it easy to accommodate future changes
- Intuitive setup via display or remote teach reduces installation time and costs
- Temperature range from -30°C to +65°C allows for outdoor use without additional cooling or heating
- Up to 40 klx ambient light immunity – allows for use in optically challenging environments

DT Distance Sensors

Product Code	Measuring Range	Target	Connector	Supply Voltage	Resolution	Digital Output	Analog Output
1044369	200mm to 10,000mm, 90% remission	Natural objects	Male connector, M12 5-pin	DC 10V to 30V	1mm	PNP	4mA to 20 Ma
	200mm to 6,500mm, 18% remission						≤ 100mA
	200 mm to 4,000mm, 6% remission						16 bit
1065661	200mm to 30,000mm, 90% remission	Natural objects	Male connector, M12 5-pin	DC 10V to 30V	0.1mm	Push-pull: PNP/NPN	Power output / voltage output
						Function	Output Q2 adaptable: Current output / Voltage output / Digital output / Q1 not / deactivated
	200mm to 17,000mm, 18% remission					Complementary digital outputs (Q, Q̄)	Current 4mA to 20mA, ≤ 450 Ω
	200mm to 10,000mm, 6% remission					Output Q2 adaptable: Current output / Voltage output / Digital output / Q1 not / deactivated	Voltage 0V to 10V, ≥ 50 Ω
							Resolution 16 bit

G6 Series | Photo-Electric Sensors



Product Code	Description	Details	Sensing	Type	Connector	Principle	Dimensions (W x H x D)
1051781	GTE6-P4212	Supply voltage: 10V DC to 30V DC, Switching output: PNP, Switching mode: Light/dark-switching, Switching mode selector: Selectable via light/dark selector	≤ 300mm	Proximity	M8 4-pin	Energetic	12 x 31.5 x 21mm
1052442	GTB6-P4212		5–250mm	Proximity	M8 4-pin	Background suppression	12 x 31.5 x 21mm
1051777	GL6-P4112		≤ 5m	Retro-reflective	M8 4-pin	Reflective	12 x 31.5 x 21mm
1060810	GL6G-P4212		≤ 5m	Retro-reflective	M8 4-pin	Transparent objects	12 x 31.5 x 21mm
1052450	GSE6-P4112		0–15m	Through beam	M8 4-pin	Through beam	12 x 31.5 x 21mm

G10 Series | Photo-Electric Sensors



Product Code	Description	Details	Sensing	Type	Principle	Dimensions (W x H x D)
1065867	GTE10-P4212	Supply voltage: 10V DC to 30V DC, Output type: PNP, Switching mode: Light/dark switching Switching mode selector: Selectable via light/dark selector, Connection type: M12 4-pin	20mm–1.300mm	Proximity	Energetic	20 x 50 x 39mm
1065857	GTB10-P4212		20mm–950mm	Proximity	Background suppression	20 x 50 x 39mm
1065887	GL10-P4212		0.08m–12m	Retro-reflective	Reflective	20 x 50 x 39mm
1065894	GL10G-P4252		0.3m–8m	Retro-reflective	Transparent objects	20 x 50 x 39mm
1065903	GSE10-P4212		0m–40m	Through beam	Through beam	20 x 50 x 39mm
2071259	BEF-G10UC01	Bracket for G10 Series				

GR18 Series | Photo-Electric Sensors



1058206

Reflectors

Product Code	Description	Details	Sensing	Type	Principle	Dimensions
1058200	GRTE18S-P2342	Supply voltage: 10V DC to 30V DC Switching output: PNP, M12 connector	5–550mm	Proximity	Energetic	M18 x 38mm
1058198	GRL18S-F2331		7.2m	Retro reflective	Reflective	M18 x 38mm
1059555	GRL18SG-F2332		7.2m	Retro reflective	Transparent objects	M18 x 38mm
1058206	GRL18SG-F233Y		7.1m	Retro reflective	Reflective	M18 x 38mm
1059549	GRSE18S-F2331		15m	Through-beam	Through beam	M18 x 38mm
5308446	BEF-WN-M18	Mounting bracket for GR series sensor				
4053358	BEF-WN-MH15-2V	Mounting ring				



Product Code	Description	Details	Temperature	Sensors	Dimensions
1012720	PL40A	Standard reflector, rectangular	–20°C to +65°C	General	37mm x 56 mm
5304812	P250	Standard reflector, rectangular	–20°C to +65°C	General	47mm x 47 mm
1003865	PL80A	Standard reflector, rectangular	–20°C to +65°C	General	80mm x 80 mm
5304549	C110A	Standard reflector, round	–20°C to +65°C	General	Ø 80mm

Reed Switch – RZT7



Product Code	Description	Function	Type	Connector	Sensing	Length	Voltage
1070848	RZT7-03ZRS-KP0	NO	T-SLOT	ACDC 3 wire, M8, 300mm	REED	29.5mm	10–30V DC
2022703	BEF-KHZ-ST1	Mounting bracket for cylinder with dovetail slot					
2046440	BEF-KHZ-TT2	Mounting bracket for mounting on SMC rails CDQ2 (T-slot)					
2077679	BEF-KHZ-RT-20	Mounting bracket on round body cylinder with piston diameter of 20mm, ambient temperature min 0°C to max 50°C					
2022702	BEF-KHZ-PT1	Mounting brackets for tie rod cylinder					

Capacitive Sensors – CM



Product Code	Description	Function	Type	Connector	Sensing	Length	Body Type	Voltage
6051030	CM12-08EBP-KC1	N/O & N/C	PNP/NPN	M12 4-pin	8mm	M12 x 1	Flush / Non-flush	10–30V DC
6020475	CM30-16BPP-KC1	N/O & N/C	PNP	M12 4-pin	16mm	M30 x 1.5	Flush	10–30V DC
5308447	BEF-WN-M12	Mounting bracket, M12 thread						
5308445	BEF-WN-M30	Mounting bracket, M30 thread						

Ultrasonic Sensors – UM



Product Code	Description	Function	Connector	Sensing	Length	Body Type	Voltage
6048390	UM18-21112A211	1x push-pull PNP/NPN (100mA)	M12 5-pin	30–250mm, 350mm	52.5mm	M18	10–30V DC
6037677	UM30-214114	2x NPN (200mA)	M12 5-pin	350–3,400mm, 5,000mm	102mm	M30	10–30V DC
6037667	UM30-214112	2x PNP (200mA)	M12 5-pin	350–3,400mm, 5,000mm	102mm	M30	10–30V DC
5308446	BEF-WN-M18	Mounting bracket for M18 housing					
5308445	BEF-WN-M30	Mounting bracket for M30 housing					

Encoders



- Reduced storage costs and downtime due to customer-specific programming
- Variety of different mechanical and electrical interfaces enable the encoder to be optimally adjusted to fit the installation situation
- Excellent concentricity even at high speeds
- High resolution of up to 16 bits ensures precise measurements
- Permanent and safe operation due to a high enclosure rating, temperature resistance and a long bearing lifetime
- Programmability via the PGT-08 programming software and the PGT-10-Pro display programming tool allow the encoder to be adapted flexibly and quickly according to customer needs
- Programmable zero pulse position simplifies installation

DFS 60 Encoders

Product Code	Shaft	Function	Connector	Pulses
1036720	10mm	4.5V to 32V, TTL/HTL programmable	M23	>10 000
1036721	10mm	4.5V to 32V, TTL/HTL programmable	M12 8-pin	>10 000
1036916	10mm Hollow Shaft	4.5V to 32V, TTL/HTL programmable	M12 8-pin	>10 000

DFS 60 - Accessories



Product Code	Description
5312982	Bellows coupling, shaft diameter 6mm / 10mm
5314178	Beam coupling, 8mm / 10mm max. shaft displacement radially ± 0.3 mm, axial ± 0.2 mm
5312983	Bellows coupling shaft diameter 10mm / 10mm
5312984	Bellows coupling, shaft diameter 10mm / 12mm
1072254	Programming tool for programmable SICK encoders DFS60
2046579	Female connector, M12 8-pin, straight to male connector, D-Sub, 9-pin, straight 0.5m
2046580	Female connector, M23 12-pin, straight to male connector, D-Sub, 9-pin, straight 0.5m

AFS / AFM60 SSI Absolute Encoders



Electrical interface: 4.5V ... 32V, SSI. | Grey, programmable. | Connection type: Connector M12 8-pin, radial. | Number of steps: $\leq 32,768$ | Programmable: I

Product Code	Description	Resolution	Shaft Diameter	Mechanical Interface
1037514	AFM60B-S1PC032768	32.768 x 4.096	6mm, 10mm	Solid shaft, Servo flange

SSI Absolute Encoder Accessories



Product Code	Type	Description
6032867	DOL -1208-G05MAC 1	Head A: female connector, M12 8-pin, straight Cable: shielded, 5m
2048439	DSL-2D08-G0M5AC 2	Head A: male connector, D-Sub, 9-pin, straight Head B: female connector, M12 8-pin, straight Cable: SSI, TPU, halogen-free, shielded, 0.5m
1036616	PGT-08-S	Programming Tool USB, for programmable SICK encoders AFS60, AFM60, DFS60, VFS60, DFF60 and wire draw encoders with programmable encoders

AFS/AFM60 Profinet Absolute Encoders



Electrical interface: PROFINET. | Connection type: 3x connector M12 4-pin, axial. | Number of steps: $\leq 262,144$. | Programmable: I

Product Code	Description	Resolution	Shaft diameter	Mechanical interface
1059039	AFM60A-S4NB018X12	262.144 x 4.096	10mm	Solid shaft with flat

Profinet Absolute Encoder Accessories



Product Code	Type	Head A	Head B	Cable
6007303	DO S-1204-W	Female connector, M12 4-pin, angled	-	Unshielded
6048180	Feedthrough female connector Ethernet RJ45	Female connector, M12 4-pin, D-coded	Female connector, RJ45, 8-pin	Ethernet, shielded cabinet through
6048262	STE -1204-WZ	Male connector, M12 4-pin, angled, D-coded	-	PROFINET, PROFINET, shielded

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

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



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



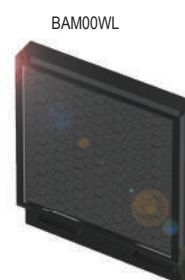
Product Code	BOD001F	BOD001P	BOD001W
Style	Block	Block	Block
PNP/NPN	PNP/NPN + 4–20mA	PNP/NPN + 4–20mA	PNP/NPN + 4–20mA
NO / NC	NO / NC	Auto	NO / NC
Wire	5-pin, Wire	5-pin, Wire	5-pin, Wire
Light	Laser	Laser	Laser
Range	150–2000mm	100–5000mm	200–10000mm
Connector	M12	M12	M12
Housing	Zinc, Die Casting	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	BOS012A	BOS01JK	BOS01L3
Style	M18	Block	Block, with Background Suppression	Block, with Background Suppression
Size	81.5mm	10.8 x 43.5 x 19.5mm	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	NO / NC	NO / NC
Wire	4-pin, 4 wire	4-pin, 3 wire	4-pin, 4 wire	4-pin, 4 wire
Light	LED	LED	Laser Red Light	LED, Red Light
Range	0–700mm	40–200mm	20–300mm	3–400mm
Connector	M12	M8	M8	M8
Housing	PBT	PBT	PBT	PBS
Frequency	1000Hz	500Hz	500Hz	500Hz
IP	67	67	67	67
Temp.	-25–57°C	-25–55°C	-20–55°C	-20–55°C

Product Code	BOS0124	BOS00JW	BOS00JZ
Style	Block	M18, with Background Suppression	M18
Size	10.8 x 43 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	Infra Red	LED	LED
Range	0–900mm	5–100mm	0–400mm
Connector	M8	M12	M12
Housing	PBT	PBT	PBT
Frequency	500Hz	1000Hz	1000Hz
IP	67	67	67
Temp.	-25–55°C	-25–55°C	-25–56°C



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

Pressure Transmitters



BSP0094

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

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 and 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

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)
10415	10A	Max. 250V AC, 300V DC	107 x 65 x 39mm
10416	20A	Max. 250V AC, 300V DC	107 x 65 x 39mm

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

Evolution – Three Phase 5–40A 24V DC | Power Supplies



Product Code	Input Voltage incl. Tolerance	Output Voltage	Amps	Dimension (H x W x D)
85000	3x 324–572V AC or 480–745V DC	120W 24V DC	5A	132 x 83 x 98mm
85001		240W 24V DC	10A	132 x 93 x 114mm
85002		480W 24V DC	20A	132 x 113 x 136mm
85004		960W 24V DC	40A	132 x 164 x 142mm

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
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
Auto Balancing	Yes (50/50)
Dimension (H x W x D)	90 x 70 x 80mm

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
3000-16013-310020	1 C/O contact	24V AC/DC	250V AC 6A	Screw Terminal

Optocoupler – Solid State Switching



Product Code	Type	Input Voltage	Max. Switching Voltage
52500	5A	24V DC	5–48V DC
52501	2A	24V DC	5–48V DC
52502	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 Classic



Product Code	Nominal Input Voltage	Channels	Current Adjustment	Dimension (H x W x D)
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

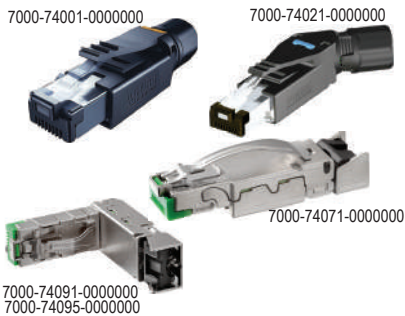
Xelity Unmanaged Ethernet Switch



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)
58811	6x RJ45	10-1000 Mbit	9.5–31.5V DC	24V DC	140 × 30 × 85.1mm
58810	4x RJ45	10-1000 Mbit	9.5–31.5V DC	24V DC	90 × 45 × 78mm
58812	8x RJ45	10-1000 Mbit	9.5–31.5V DC	24V DC	90 × 45 × 78mm

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)

Product Code	Port
8000-84400-0000000	M12 female 4-pole
8000-84500-0000000	M12 female 5-pole

Cap Only for Home Run Cable (Spring Clamp)

Product Code	Signals
8000-88549-0000000	1 Signal
8000-88549-0000000	2 Signal

Distribution Boxes Exact12 | 8-Port



Distribution Boxes (no caps)

Product Code	Port
8000-88400-0000000	M12 female 4-pole
8000-88500-0000000	M12 female 5-pole

Cap Only for Home Run Cable (Spring Clamp)

Product Code	Signals
8000-88549-0000000	1 Signal
8000-88549-0000000	2 Signal

Distribution Boxes PNP With Cap

Product Code
8000-88450-0000000
8000-88550-0000000

Distribution Boxes EXACT8 | Pluggable Housing

8000-88000-0000000



Product Code	Type	Port	Signals
8000-88000-0000000	8-port	M8 female, 3-pole	1 Signal
8000-80000-0000000	10-port	M8 female, 3-pole	1 Signal
Pluggable cap / cable still required, as per below.			

Pluggable Cap & Cable



Product Code	Type	General	Cable Type	Cable Length	Cable Colour
8000-88049-3570500	8-port	For 3-pole distribution block connectivity	PUR / PVC	5m	Grey
8000-88049-3571000	8-port	For 3-pole distribution block connectivity	PUR / PVC	10m	Grey
8000-80049-3850500	10-port	For 3-pole distribution block connectivity	PUR / PVC	5m	Grey
8000-80049-3851000	10-port	For 3-pole distribution block connectivity	PUR / PVC	10m	Grey

M12 Port Plug



Product Code	Type
58627	Hex Nut

M8 Port Plug



Product Code	Type
3858627	Hex Nut

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



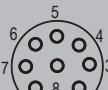
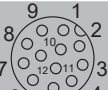
Product Code	Poles	Length	Jacket	Cable Type
7000-12021-6140500	4-pole	5m	Black	PVC
7000-12021-6141000		10m	Black	PVC
7000-12021-6240500		5m	Black	PUR / PVC
7000-12021-6241000		10m	Black	PUR / PVC
7000-12041-6150500	5-pole	5m	Black	PVC
7000-12041-6151000		10m	Black	PVC
7000-12041-6250500		5m	Black	PUR / 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 As- sembly & 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



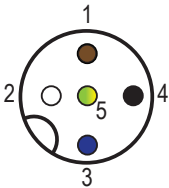
Product Code	Poles	Jacket Color	Cable Type	Length
7000-12181-6130500	3-pole	Black	PVC	5m
7000-12181-6230500		Black	PUR / PVC	5m
7000-12221-6140200	4-pole	Black	PVC	2m
7000-12221-6140500		Black	PVC	5m
7000-12221-6141000		Black	PVC	10m
7000-12221-6141500		Black	PVC	15m
7000-12221-6142000		Black	PVC	20m
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
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

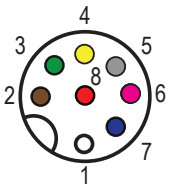
AWG	30	28	26	24	22	21	20
mm ²	0.05	0.08	0.14	0.25	0.34	0.38	0.5
AWG	18	17	16	14	12	10	8
mm ²	0.75	1	1.5	2.5	4	6	10

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	4-pole	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
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

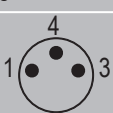
M12 LED Female 90°



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

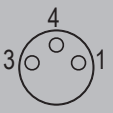
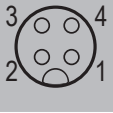
Single Ended M8 | Male Straight



Product Code	Poles	Jacket Color	Cable Type	Length
7000-08001-6100300		Black	PVC	3m
7000-08001-6100500		Black	PVC	5m
7000-08001-6101000		Black	PVC	10m
7000-08001-6102000		Black	PVC	20m
7000-08011-6110300		Black	PVC	3m
7000-08011-6110500		Black	PVC	5m
7000-08011-6111000		Black	PVC	10m
7000-08011-6112000		Black	PVC	20m

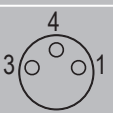
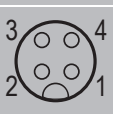
Single Ended M8 | Female Straight



Product Code	Poles	Jacket Color	Cable Type	Length
7000-08041-6100300		Black	PVC	3m
7000-08041-6100500		Black	PVC	5m
7000-08041-6101000		Black	PVC	10m
7000-08041-6102000		Black	PVC	20m
7000-08041-6110300		Black	PVC	3m
7000-08041-6110500		Black	PVC	5m
7000-08041-6111000		Black	PVC	10m
7000-08041-6112000		Black	PVC	20m

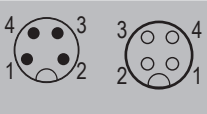
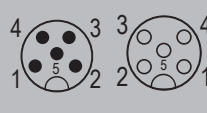
Single Ended M8 | Female 90



Product Code	Poles	Jacket Color	Cable Type	Length
7000-08081-6100300		Black	PVC	3m
7000-08081-6100500		Black	PVC	5m
7000-08081-6101000		Black	PVC	10m
7000-08081-6110300		Black	PVC	3m
7000-08081-6110500		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		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		0.6mm	Black	PVC
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 - MQ12 7072 - xtreme 7700 - TPE										0 - Yellow 2 - Grey 6 - Black				0030 = .3m 0060 = .6m 0100 = 1m 0150 = 1.5m 0200 = 2m 0300 = 3m 0500 = 5m 0750 = 7.5m 1000 = 10m			
										1 - PVC 2 - PUR/PVC 3 - PUR 5 - Robotic							

Bulk Cable | Shielded and Unshielded



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



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-C0505-6550000	5	PUR	500m	approx. 5.0mm	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

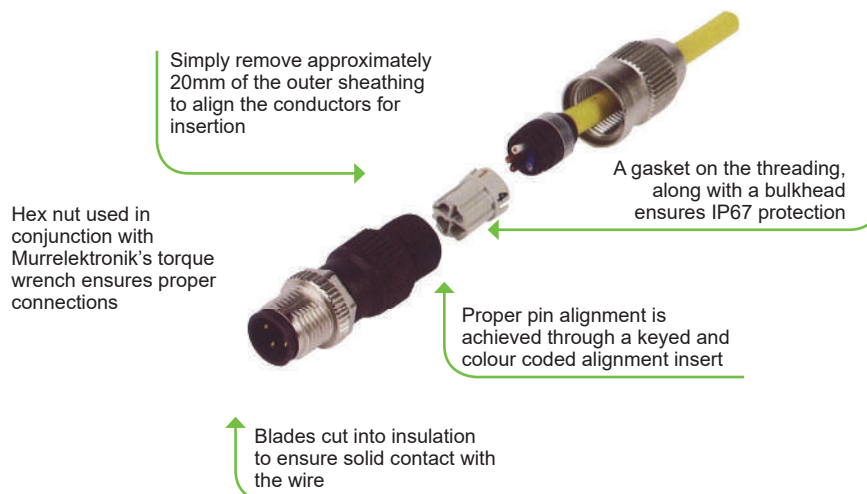


Product Code	Type	Pole	Wire Diameter (AWG)
7000-12701-0000000	Male	4	Max. 0.75mm ² (18)
7000-12721-0000000	Male	5	Max. 0.75mm ² (18)
7000-12901-0000000	Female	4	Max. 0.75mm ² (18)
7000-12741-0000000	Male (6-8mm entry)	4	Max. 0.75mm ² (18)
7000-12761-0000000	Male	5	Max. 0.75mm ² (18)
7000-12961-0000000	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)
7000-08381-0000000	Female	4	0.25–0.5mm ² (24–20)

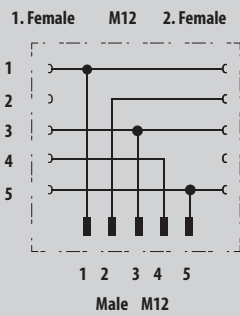
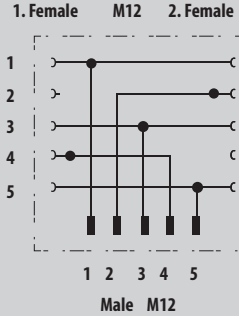
Field Wireable Connectors | M8 Screw Terminal Straight



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	Male	3	0.14–0.5mm ² (26–20)
7000-08631-0000000	Male	4	0.14–0.5mm ² (26–20)

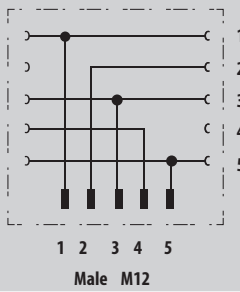
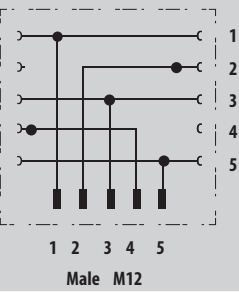
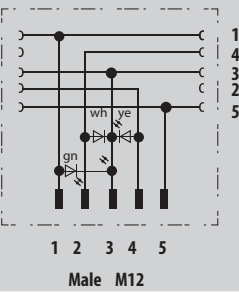
T-Splitter | M12 – 12



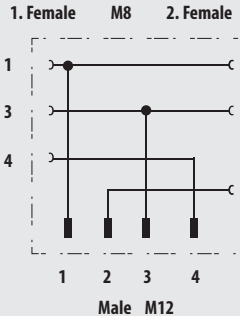
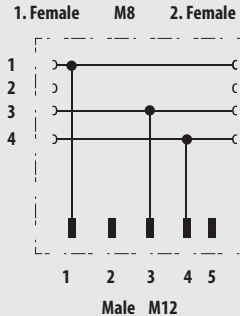
Product Code	7000-41121-0000000	7000-41181-0000000
Pole	5	5
Circuit Diagram	1. Female M12 2. Female  Male M12	1. Female M12 2. Female  Male M12
Circuit	Standard	Standard with Signal Bridge

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

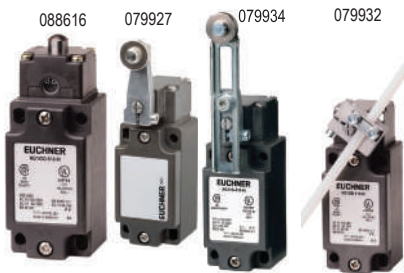
Fully Potted
Resistant to shock and vibration

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)



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.



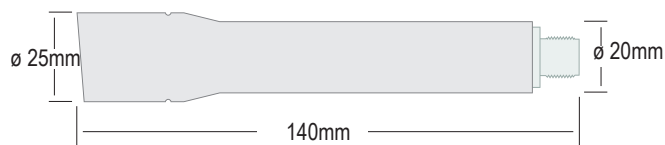
HD Laser | Visual Line, Cross and Point Laser



- 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 HYL	1mW	60cm / 90cm	1	1
	LAP 3 HDX	LAP 3 HYL	3mW	60cm / 90cm	1	1
	LAP 5 HDX	LAP 5 HYL	5mW	60cm / 90cm	1	2
	LAP 10 HDX	LAP 10 HYL	10mW	60cm / 90cm	2	2M
	LAP 15 HDX	LAP 15 HYL	15mW	60cm / 90cm	2	2M
	LAP 30 HDX	LAP 30 HYL	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

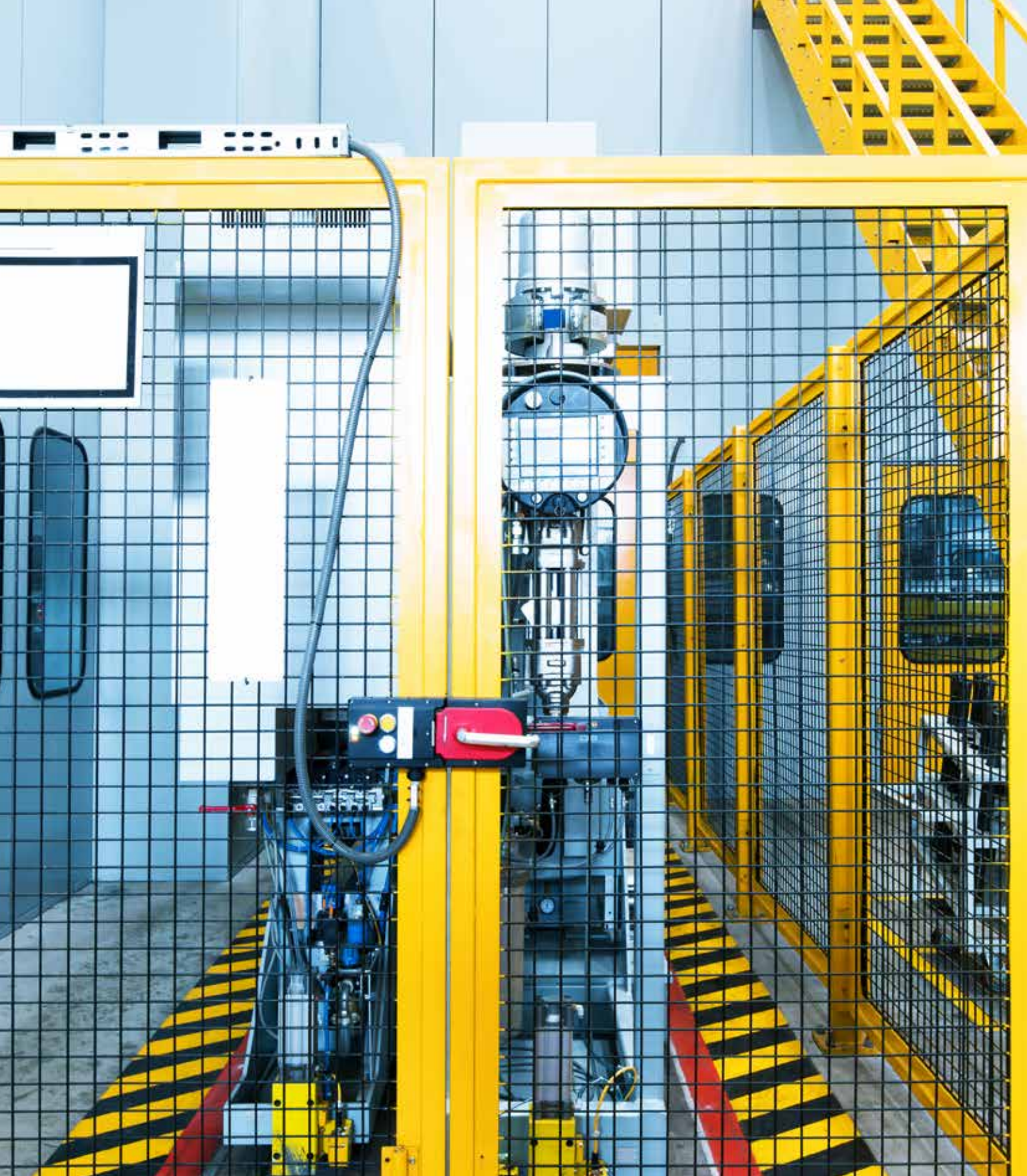


Product Code	Description
24BS24AD4E	2.5 Amp power supply
	60 Watt power supply
	Input: 110–240V AC Output: 240V DC

Connector | Accessories



Product Code	Description
7000-12981-000000	4-pin, 90° degree, M12 Connector



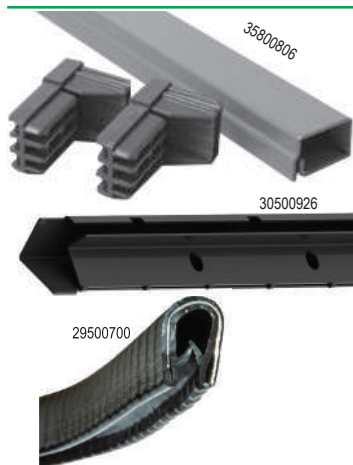
Safety automation

ST20 Mesh Panel



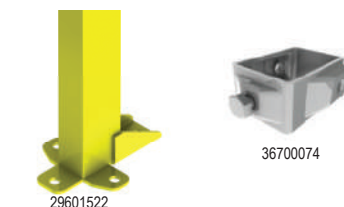
Product Code	Colour	Description
20020606	Black RAL 9005	Meshpanel ST20 2050 x 200mm
20030606	Black RAL 9005	Meshpanel ST20 2050 x 300mm
20050606	Black RAL 9005	Meshpanel ST20 2050 x 500mm
20070606	Black RAL 9005	Meshpanel ST20 2050 x 700mm
20080606	Black RAL 9005	Meshpanel ST20 2050 x 800mm
20100606	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 is tested to withstand an impact of 1600 joule (100kg hitting the fence at 20km/h). Other colours available on request.		

ST20 Cut Profile | End Profile | Edge Cover



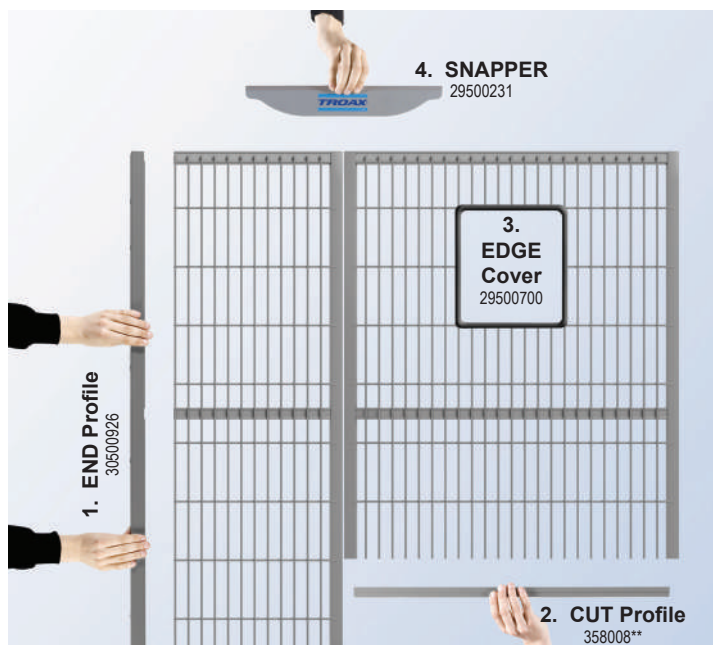
Product Code	Colour	Description
35800806	Black RAL 9005	Cut profile UR/ST20 L=200mm
35800816	Black RAL 9005	Cut profile UR/ST20 L=300mm
35800876	Black RAL 9005	Cut profile UR/ST20 L=500mm
35800826	Black RAL 9005	Cut profile UR/ST20 L=700mm
35800836	Black RAL 9005	Cut profile UR/ST20 L=800mm
35800846	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	Galvanised	Kit Bracket Smart Fix. Consists of 2 brackets per kit.

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 been joined together. Includes one upper and one lower profile.

Many other accessories available. Please enquire.

MicroScan 3 (Safety scanner)



At a glance

- Type 3 (IEC 61496), PL d (EN ISO 13849), SIL 2 (IEC 61508)
- Flexible Field Sets
- safeHDDM technology
- Rugged design
- 275° scan angle
- Safety Range up to 9m
- Monitoring Range up to 64m
- Smart connectivity
- Intuitive operation

Benefits

- Easy integration – standard system connections, intuitive software configuration and on-board interface
- Reduction of downtimes – robust detection (safeHDDM), fast replacement
- Flexibility – bigger scanning angle, flexible safety, warning, and contour detection fields
- Robust detection with safeHDDM – high reliability against dust, ambient light, and screen contamination
- Easy diagnostics – multiple high-vis status LEDs, multi-color display text readouts and push-button selection
- Reduced costs and work time

Microscan Safety Scanner



1067360



1083012

MicroScan3 Core Type Safety Scanners

Product code	Safety Range	Type	Application Notes
1067360	4000mm	MICS3-AAAZ40AZ1	Use with RLY3-OSSD1 safety relay
1067875	5500mm	MICS3-AAAZ55AZ1	Use with RLY3-OSSD1 safety relay
2073156	-	MICSX-ABIZZZZZ1	Scanner head
6024917	-	UE10-3OS2D0	Safety relay
1085343	RLY33-OSSD1 (for use with IO-type scanner) system relay		

System Cables

Product code	Descriptions
2079315	Straight Connector 5m
2079316	Straight Connector 10m

ProfiNet Type Safety Scanners

Product code	Safety Range	Type
1083012	4000mm	MICS3-ACAZ40PZ1P01
1083010	5500mm	MICS3-ACAZ55PZ1P01
1094459	9000mm	MICS3-ACAZ90PZ1P01

System Cables (ProfiNet)

Product code	Descriptions
2099626	Straight Connector 5m (power only – order network cables separately)
2099627	Straight Connector 10m (power only – order network cables separately)

MicroScan3 Accessories



System Cables (IO)

Product code	Descriptions
2073851	Mounting Kit 1a – Basic Bracket
2073852	Mounting Kit 2a – Swivel
2074184	Mounting Kit 2b – Swivel, with extra clearance for network plugs
2102289	Heavy duty floor mounting kit (complete)
6042517	USB-A to mini-USB Configurations Cable

S30 Safety Scanners



Features

- Large protective field range of 7 m enables a large variety of applications
- Safety technology – with no loss of productivity
- Quick recommissioning via configuration memory
- Modular expansions, low wiring effort and additional functions such as the simultaneous monitoring of up to four protective fields using a SICK safety controller via EFI
- Easy installation, commissioning and maintenance for stationary and mobile applications
- Decades of proven safety technology guarantee maximum reliability and availability – even under difficult conditions
- Simple alignment and reliable operation in vertical mode

Ordering Information

Product Code	Description
1028935	S3000 advanced 4m, sensing distance, safety scanners
1023547	S3000 advanced 5.5m, sensing distance, safety scanners
1023891	S3000 advanced 7m, sensing distance, safety scanners

S30 Scanner Accessories



Product Code	Description
2027173	System plug cable: 10m, 13-wire
2023797	System plug only, wireable
2015623	Mounting bracket for direct mounting, from the rear, on wall or machine, not adjustable
2027180	Front screen replacement kit with replacement seal and screws

DeTec 2 and DeTec4 Core, Light Curtains (Safety)



Type 2 & 4 (IEC 61496), PL c (EN ISO 13849)

At a glance

- Protective operation
- Absence of blind zones: Resolution of 14mm or 30mm
- Protective field height of 300mm to 2100mm
- Automatic range measurement of up to 10m
- Ambient operating temperature of -30°C to +55°C
- Enclosure rating IP65 / IP67

Features

- Simple assembly with innovative mounting and no blind zones
- Quick commissioning thanks to integrated LED display and automatic range measurement of up to 10m
- Simply safe: rugged and reliable thanks to enclosure rating IP67 and an ambient operating temperature down to -30°C, enabling use in harsh ambient conditions

Intelligently standardized

- M12 5-pin provide cost reductions
- Basic function without any configuration effort enables quick replacement when servicing is required

Detec2 (Class 2)



Product Code Sender	Sender Type	Product Code Receiver	Receiver Type	PFH	Resolution	Range
1213163	C2C-SA03010A10000	1213188	C2C-EA03010A10000	300mm	14mm	0–7m
1213189	C2C-SA04510A10000	1213190	C2C-EA04510A10000	450mm	14mm	0–7m
1213191	C2C-SA06010A10000	1213192	C2C-EA06010A10000	600mm	14mm	0–7m
1213193	C2C-SA07510A10000	1213194	C2C-EA07510A10000	750mm	14mm	0–7m
1213195	C2C-SA09010A10000	1213196	C2C-EA09010A10000	900mm	14mm	0–7m
1213197	C2C-SA10510A10000	1213198	C2C-EA10510A10000	1050mm	14mm	0–7m
1213183	C2C-SA12010A10000	1213199	C2C-EA12010A10000	1200mm	14mm	0–7m
1215643	C2C-SA13510A10000	1216120	C2C-EA13510A10000	1350mm	14mm	0–7m
1216121	C2C-SA15010A10000	1216122	C2C-EA15010A10000	1500mm	14mm	0–7m
1216123	C2C-SA16510A10000	1216124	C2C-EA16510A10000	1650mm	14mm	0–7m
1216125	C2C-SA18010A10000	1216126	C2C-EA18010A10000	1800mm	14mm	0–7m
1216127	C2C-SA19510A10000	1216128	C2C-EA19510A10000	1950mm	14mm	0–7m
1216129	C2C-SA21010A10000	1216130	C2C-EA21010A10000	2100mm	14mm	0–7m
1213200	C2C-SA03030A10000	1213184	C2C-EA03030A10000	300mm	30mm	0–10m
1213202	C2C-SA04530A10000	1213203	C2C-EA04530A10000	450mm	30mm	0–10m



Detec2 (Class 2) (Continued)



Product Code Sender	Sender Type	Product Code Receiver	Receiver Type	PFH	Resolution	Range
1213204	C2C-SA06030A10000	1213205	C2C-EA06030A10000	600mm		
1213206	C2C-SA07530A10000	1213207	C2C-EA07530A10000	750mm		
1213208	C2C-SA09030A10000	1213209	C2C-EA09030A10000	900mm		
1213210	C2C-SA10530A10000	1213211	C2C-EA10530A10000	1050mm	30mm	0–10m
1213212	C2C-SA12030A10000	1213213	C2C-EA12030A10000	1200mm		
1213214	C2C-SA13530A10000	1213215	C2C-EA13530A10000	1350mm		
1213216	C2C-SA15030A10000	1213217	C2C-EA15030A10000	1500mm		
1213218	C2C-SA16530A10000	1213219	C2C-EA16530A10000	1650mm		
1213220	C2C-SA18030A10000	1213221	C2C-EA18030A10000	1800mm	30mm	0–0m
1213222	C2C-SA19530A10000	1213223	C2C-EA19530A10000	1950mm		
1213201	C2C-SA21030A10000	1213164	C2C-EA21030A10000	2100mm		

DeTec4 Core, Light Curtains (Safety)

Detec4 (Class 4)



Product Code Sender	Sender Type	Product Code Receiver	Receiver Type	PFH	Resolution	Range
1211450	C4C-SA03010A10000	1211463	C4C-EA03010A10000	300mm	14mm	0–7m
1211469	C4C-SA04510A10000	1211470	C4C-EA04510A10000	450mm		
1211471	C4C-SA06010A10000	1211472	C4C-EA06010A10000	600mm		
1211473	C4C-SA07510A10000	1211474	C4C-EA07510A10000	750mm		
1211475	C4C-SA09010A10000	1211515	C4C-EA09010A10000	900mm		
1211476	C4C-SA10510A10000	1211477	C4C-EA10510A10000	1050mm	14mm	0–7m
1211478	C4C-SA12010A10000	1211479	C4C-EA12010A10000	1200mm		
1211480	C4C-SA13510A10000	1211481	C4C-EA13510A10000	1350mm		
1211482	C4C-SA15010A10000	1211483	C4C-EA15010A10000	1500mm		
1211484	C4C-SA16510A10000	1211485	C4C-EA16510A10000	1650mm		
1211486	C4C-SA18010A10000	1211487	C4C-EA18010A10000	1800mm	14mm	0–7m
1211488	C4C-SA19510A10000	1211489	C4C-EA19510A10000	1950mm		
1211490	C4C-SA21010A10000	1211491	C4C-EA21010A10000	2100mm		
1211462	C4C-SA03030A10000	1211464	C4C-EA03030A10000	300mm	30mm	0–10m
1211492	C4C-SA04530A10000	1211493	C4C-EA04530A10000	450mm		
1211494	C4C-SA06030A10000	1211495	C4C-EA06030A10000	600mm		
1211496	C4C-SA07530A10000	1211497	C4C-EA07530A10000	750mm		
1211498	C4C-SA09030A10000	1211516	C4C-EA09030A10000	900mm		
1211499	C4C-SA10530A10000	1211500	C4C-EA10530A10000	1050mm	30mm	0–10m
1211501	C4C-SA12030A10000	1211502	C4C-EA12030A10000	1200mm		
1211503	C4C-SA13530A10000	1211504	C4C-EA13530A10000	1350mm		
1211505	C4C-SA15030A10000	1211506	C4C-EA15030A10000	1500mm		
1211507	C4C-SA16530A10000	1211508	C4C-EA16530A10000	1650mm		
1211509	C4C-SA18030A10000	1211510	C4C-EA18030A10000	1800mm	30mm	0–10m
1211511	C4C-SA19530A10000	1211512	C4C-EA19530A10000	1950mm		
1211513	C4C-SA21030A10000	1211514	C4C-EA21030A10000	2100mm		

DeTec2 and DeTec4 Core Accessories

Connecting Cables (M12 5-pin, Female)



Product Code	Description
2095618	YF2A15-050UB5XLEAX Socket straight with 5m cable, open end
2095619	YF2A15-100UB5XLEAX Socket straight with 10m cable, open end
2095614	YF2A15-200UB5XLEAX Socket straight with 20m cable, open end
2095621	YF2A15-300UB5XLEAX Socket straight with 30m cable, open end

Connecting Cables (M12 5-pin, Female)



Product Code	Description
2095773	YG2A15-050UB5XLEAX Socket angled with 5m cable, open end
2095774	YG2A15-100UB5XLEAX Socket angled with 10m cable, open end

Coupling Device



Product Code	Description
6030664	DSC-1205T000025KM0 T-connector

Mounting Brackets (DETEC2 + DETEC4)



Product Code	Description
2066614	BEF-1SHABPKU4 4 pieces, FlexFix bracket, plastic (set)
2066048	BEF-3SHABPKU2 2 pieces, QuickFix bracket (set)

Power Supply Units



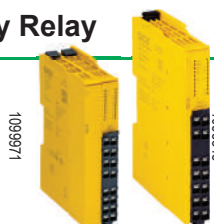
Product Code	Description
7028789	Power Supply, Class II, 100-240VAC/24V/50W
7028790	Power Supply, Class II, 120-240VAC/24V/95W

Alignment Aid



Product Code	Description
1015741	Laser alignment aid AR60
4070854	Adapter (for alignment tool)

Safety Relay



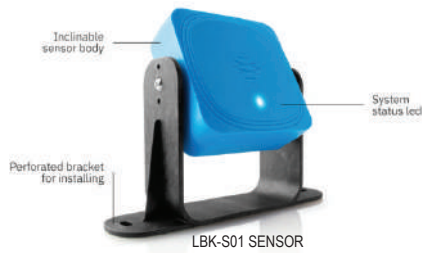
Product Code	Description
1099971	RLY3-OSSD400 (E-stop) 24V DC Supply, 3x N/O for safety, 1x N/C for monitoring, 1x N/C for EDM
1085343	RLY3-OSSD100 (E-stop) (Spring-type terminals available on request) 24 VDC Supply, 2x N/O for safety, 1x N/C for monitoring
1085346	RLY3-HAND100 (two hand)(Spring terminals), 24V DC supply, 4 inputs for connecting two devices, both with N/O + N/C, 2 enabling outputs and 1 diagnostic

Config Cable



Product Code	Description
6034574	DSL-8U04G02M025KM1, M8 4-pin to USB-A, 10m, 4 wire, programming cable

Sensor

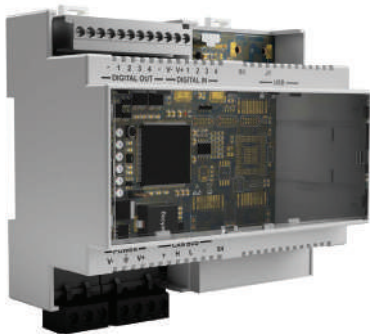


LBK-S01 SENSOR



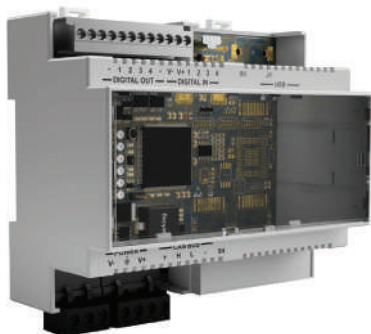
Product Code	LBK-S01 SENSOR
Connectors	2 5-pin M12 connectors (1 male and 1 female)
CAN bus termination resistance	120 Ω (not supplied, to be installed with termination connector)
Power supply	12V DC $\pm$ 20%, through controller
Degree of protection	IP67
Material	Sensor case: PA66 Bracket: PA66 and glass fiber (GF)
Frequency	Working band: 24–24, 25 GHz (24.05 - 24.25 for UK and FR) Transmission power: $\leq$ 13 dBm - Modulation: FMCW
Sensing field and Installation height	Wide FOV configuration: 110° Horiz. 30° Vert., Height: 0 to 3m Narrow FOV configuration: 50° Horiz. 15° Vert., Height: 0 to 3m
Model	LBK-S01 Smart Sensor 100 Series
Product Code	90202011
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 $\pm$ 20%, through controller
Power consumption	1,2 W
Degree of protection	IP67

Control Unit



Model	ISC-03 Control Unit 200 SERIES Digital I/O
Product Code	90304011
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 mm ² Max Current: 4A with 1 mm ² cables
Model	ISC-02 Control Unit 200 SERIES Eth and digital I/O
Product Code	90303011
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 mm ² Max Current: 4A with 1 mm ² cables

Control Unit



Model	ISC-B01 Control Unit 200 SERIES Fieldbus, Eth and digital I/O
Product Code	90301011
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: 1 A (no OSSD)
Consumption	Max. 5 W
Assembly	DIN guide
Degree Of Protection	IP20
Terminals	Section: 1 mm ² Max Current: 4A with 1 mm ² cables

Sensor / Sensor Cable CANBus, PVC, 5-poles, Totally Shielded



Product Code	In Side	Out Side	Length
N/A	Connector M12, female, A-coded, angled 90°	Connector M12, female, A-coded, angled 90°	3m
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
N/A	Connector M12, female, A-coded, angled 90°	Connector M12, female, A-coded, angled 90°	15m
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
N/A	Connector M12, female, A-coded, angled 90°	Free wires	10m
N/A	Connector M12, female, A-coded, angled 90°	Free wires	15m
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

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	24VDC Safety Relay 3 N/O & 1 N/C with screw terminal

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

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

095371 095373 095375 095367

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	-
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NZ Series: Metal Safety Limit Switches



090968 090934 089629

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	-
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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
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EUCHNER

More than safety.

NZ.VS Gate Safety Switch

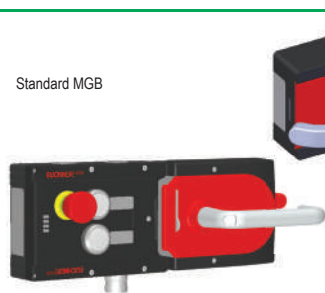
Product Code	Description	Dimensions
082122	NZ.VZ, 2NC + 2NO, M20 gland entry, Gate Safety Switch	115 x 32 x 40mm
082123	NZ.VZ, 3NC + 2NO, M20 gland entry, Gate Safety Switch	115 x 42 x 40mm
084905	NZ.VZ, 2NC, M12, 5-pin, Gate Safety Switch	115 x 42 x 40mm
24V DC switching		

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

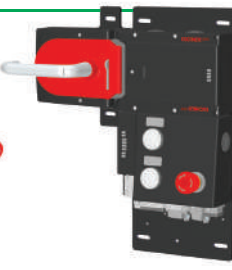
Standard MGB



Compact MGBS



Profinet MGB

**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

Standard MGB

Product Code	Description
121191	MGB Right Door (Complete set) guard locking by solenoid force with 3 controls or indicators, Emergency stop, RC 18 Connector
121194	MGB Left Door (Complete set)
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

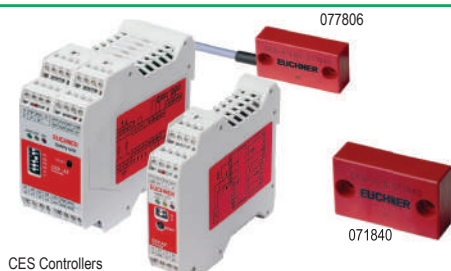
Accessories MGBS

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 safety switches TP ensure that guards remain in the closed position until a hazardous movement, e.g. an over-traveling main spindle, has come to a standstill. Similarly, opening of the guard during a process is prevented.

Thanks to their slim design, they are ideal for universal mounting on profile rails. Safety switches TP have reinforced plastic housings. They thus provide ideal installation opportunities for the automation, assembly and handling technology sectors.

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

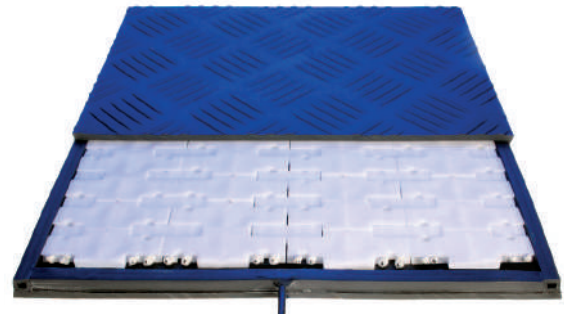
TP Accessories

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



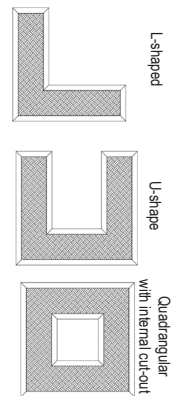
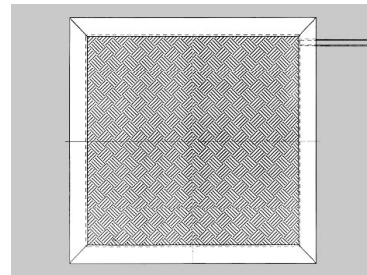
Haake's Safety Mats HSM® are built up of mechanically opening N/C contacts connected in series, in the form of a contact mat – similar to the unique Haake Contact Chain®. When stepping on the Safety Mat, the wedge elements separate at least one of the contact elements. The current circuit is broken. 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

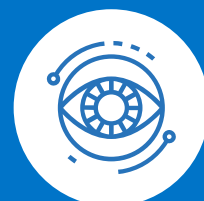
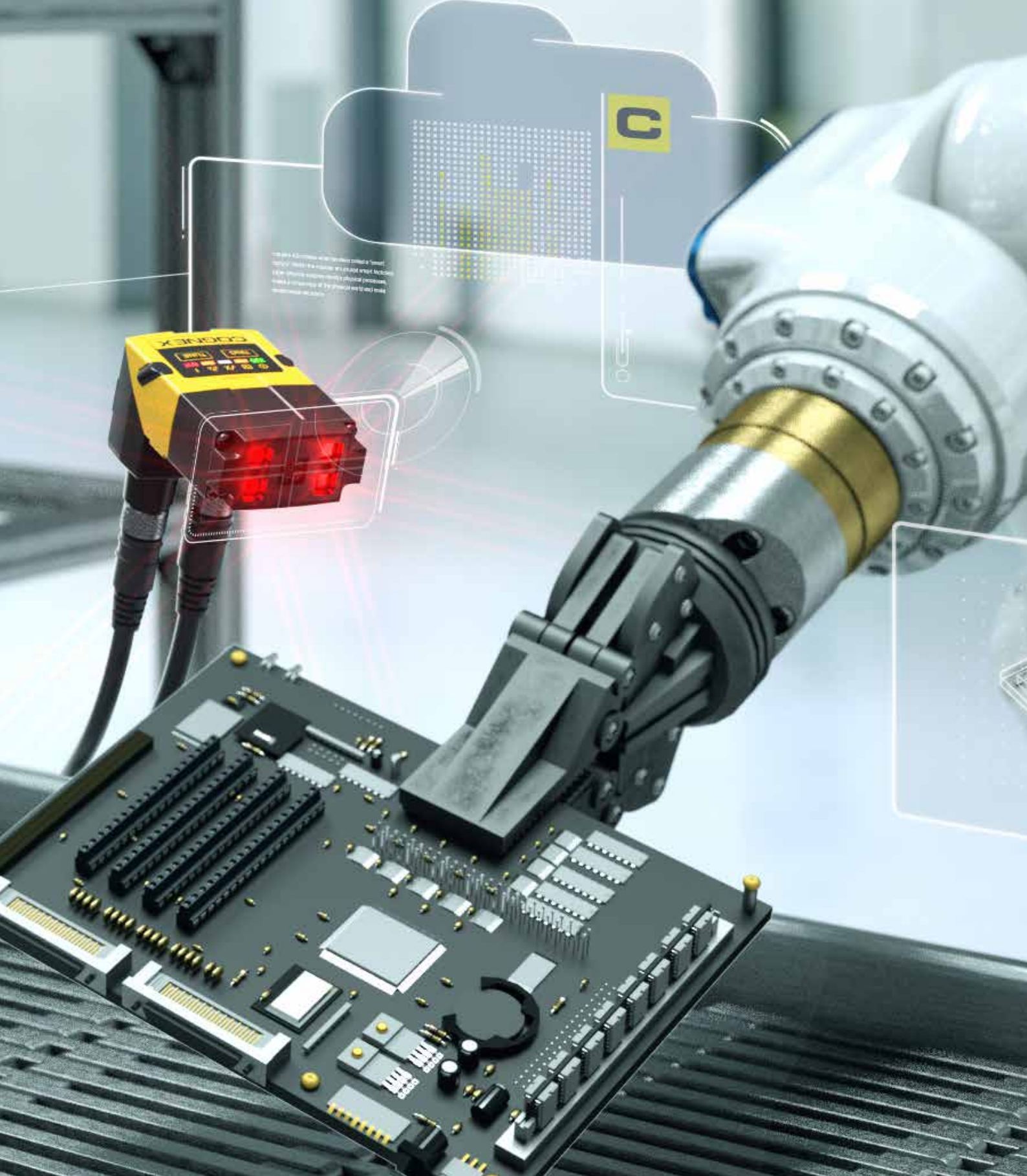


Product Code	Description
3050.1303N	End cap with circumferential edge
3031.1306B	Electrical termination switching strip with resistor
3020.1301B	Connection cable 1m (open end)
3020.1305B	Connection cable 5m (open end)
3020.1306B	Connection cable 10m (open end)
2x End caps 1x termination switch + 1x connection 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



Machine vision & identification

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.

3D Laser Profilers

Cognex In-Sight laser profilers and 3D vision systems provide ultimate ease of use, power, and flexibility to achieve reliable and accurate measurement results for the most challenging 3D applications.

Mobile Terminals

The MX series of vision-enabled mobile terminals leverage the latest iOS and Android smartphones in a rugged housing, tough enough to stand up to the most challenging environments, all while providing superior 1D, 2D, and DPM code read rates.

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.

Powertrain System Applications

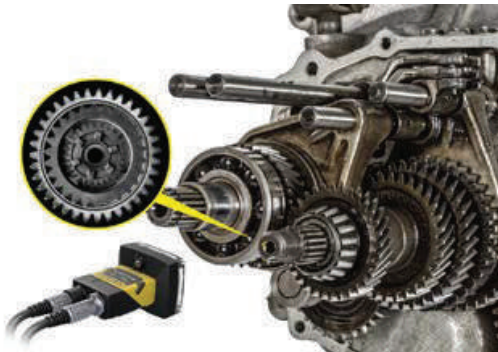
Machine Vision confirms the presence of critical powertrain components such as clutch packs, carriers, constant velocity joints, valve bodies, pistons, seals, and snap rings to maximize quality and minimize recalls. Manufacturers use Cognex vision technology to ensure parts are assembled correctly, conform to strict tolerances, and are traced throughout the supply chain.

Transmission Module Identification



Vision systems identify transmission module components prior to assembly.

Transmission Assembly Verification



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 tires. Robust, high speed wheel identification systems reliably read codes regardless of placement and orientation. Optical character recognition enables tire manufacturers to read even deformed characters with accuracy. 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



3D laser displacement sensors verify treads' critical dimensions.

Wheel and Tire Assembly



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.

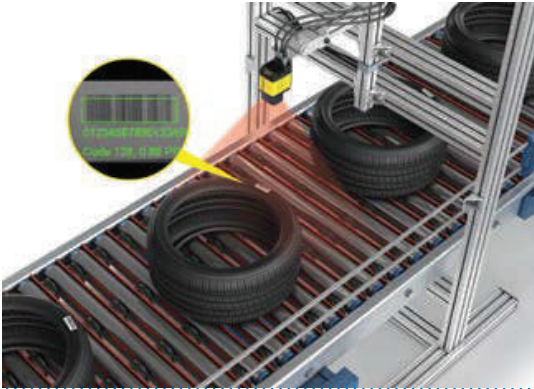
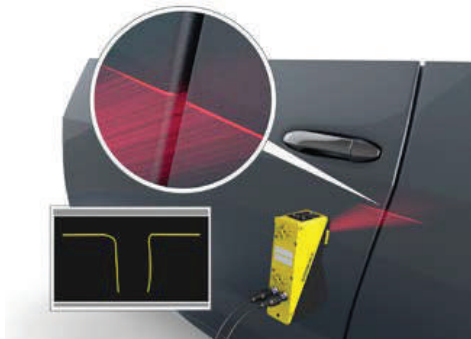


Image-based barcode readers read codes on tires regardless of orientation or line speed.

Chassis Systems Applications

2D and 3D vision systems gauge chassis parts with high accuracy 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 and detect part defects in the racks before defective parts are picked up by a robot which eliminates defective parts being welded together.

Gap and Flush Inspection



Laser profilers assess the height and alignment of assembled vehicle doors and bodies.

Steering 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



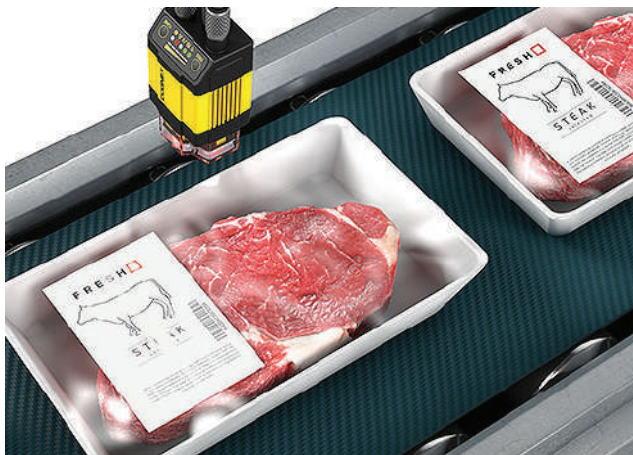
Verify tamper seal integrity



Check for date or batch code presence



Ensure label print integrity



Assembly Verification

Identifying assembly defects early saves significant time and money, especially when a single failure can affect an entire batch. Vision-guided quality checks ensure completeness and consistency while robotic pick-and-place capabilities speed up 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



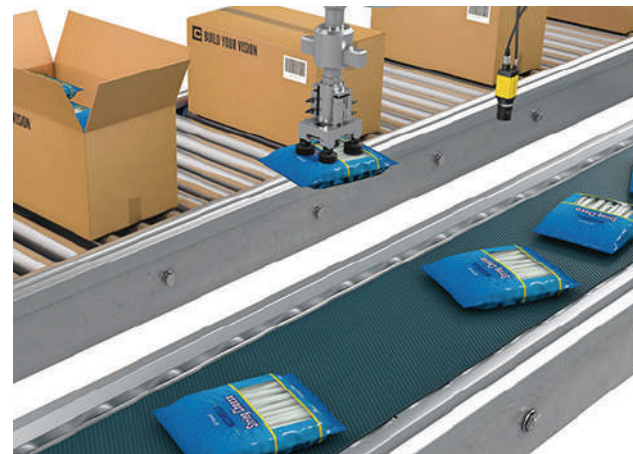
Ensure accurate liquid fill levels

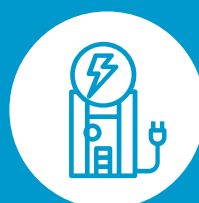


Detect missing items



Enable vision-guided robotic pick and place





Power solutions

VX Series, Line-interactive 600/1000/1500VA



Features

- The integrated AVR (Automatic Voltage Regulation) stabilizes the output voltage for better power quality
- Excellent microprocessor control enables accurate detection of power frequency for higher reliability
- Wide input voltage range allows the UPS to work in harsh electrical environments and reduces battery discharging time
- Batteries are automatically recharged even when the UPS is in off mode and the UPS can start without mains (Cold- Start)
- UPS is able to restart automatically while utility power is recovering
- Surge protection defends your critical load against damage
- Supplied with IEC output power cable for convenient connection to your load
- Several standard IEC 320 output sockets simplify the connectivity to computer and IT peripherals
- Compact size saves more space for critical equipment
- Standard USB communication port enhances monitoring and manageability
- Touch screen LCD for a clear display of UPS information
- Advanced UPS management software provides remote shutdown and control

The above features are for EMEA models.

Delta UPS–Agilon Family

Technical Specification

	Product Code	VX-600VA	VX-1000VA	VX-1500VA
	Power Rating	600VA / 360W	1000VA / 600W	1500VA / 900W
Input	Nominal Voltage	230V AC	230V AC	230V AC
	Voltage Range	170–280V AC (full load)	170–280V AC (full load)	170–280V AC (full load)
	Frequency Range	45–65Hz	45–65Hz	45–65Hz
Output	Voltage	230V AC $\pm$ 10% (Battery mode)		
	Frequency Range	50/60Hz $\pm$ 1 Hz	50 / 60Hz $\pm$ 1 Hz	50/60Hz $\pm$ 1 Hz
	Waveform (Batt. Mode)	Simulated Sinewave	Simulated Sinewave	Simulated Sinewave
	Receptacle	IEC 320 C13 x4	IEC 320 C13 x4	IEC 320 C13 x6
Battery	Battery Type & Number	12V / 7 Ah x1	12V / 7Ah x2	12V / 9Ah x2
	Recharge Time	6–8 hours to 90%	6–8 hours to 90%	6–8 hours to 90%
	Cold Start	Yes	Yes	Yes
Indicator		LCD	LCD	LCD
Communication Interfaces	Standard	USB Port x1	USB Port x1	USB Port x1
Environment	Operating Temperature	0–40°C	0–40°C	0–40°C
	Altitude	0–1000m	0–1000m	0–1000m
	Relative Humidity	0–95% (non-condensing)	0–95% (non-condensing)	0–95% (non-condensing)
Audible Noise		< 40dB	< 40dB	< 45dB
Conformance	Safety	CE	CE	CE
Physical	Dimensions (W x D x H)	101 x 279 x 142mm	130 x 320 x 182mm	130 x 320 x 182mm
	Net Weight	4.4kg	8.2kg	10.4kg

All specifications are subject to change without prior notice.

Amplon Family, R Series, Single Phase, 1/2/3 kVA (Extended Runtime Model)



Features

- True online double-conversion topology provides zero transfer time to ensure maximum protection of the equipment
- Watch-dog design of the DSP (Digital Signal Processor) increases reliability
- Cold-start capability provides temporary battery power when the utility power is out
- Operating temperature tolerance up to 50°C ensures critical loads' continuity
- The Maintenance Bypass Box offers load continuity during battery replacement or other upgrades
- Compact dimensions meet the needs of different rack cabinets
- Convertible rack and tower configuration in 2U size cabinet
- Excellent local communications through rotatable LCD display
- Intelligent management software connectivity via RS232, min.i slot or USB port
- Wide input voltage range reduces the chance of using the battery and extends battery life
- Intelligent battery management sustains battery life and performance
- High output power factor 0.9 provides more real power to critical loads
- High input power factor (pf > 0.99) and low harmonic distortion (iTHD < 3%) save upstream investment
- Up to 93% AC-AC efficiency and 96% efficiency in ECO mode results in marked energy cost savings
- Fan speed control by load level and room temperature optimises performance
- Optional charger up to 8A for long backup application

	Product Code	UPS102R2002N035	UPS202R2002N035	UPS302R2002N035
	Power Rating	1kVA / 0.9kW	2kVA / 1.8kW	3kVA / 2.7kW
Input	Nominal Voltage	200* / 208* / 220 / 230 / 240V AC		
	Voltage Range	175–280V AC (full load); 80–175V AC (50–100% load)		
	Frequency	40–70Hz	40–70Hz	40–70Hz
	Power Factor	> 0.99 (full load)	> 0.99 (full load)	> 0.99 (full load)
	Current Harmonic Distortion	< 3%	< 3%	< 3%
Output	Power Factor	0.9	0.9	0.9
	Voltage	200* / 208* / 220 / 230 / 240V AC		
	Frequency	50/60Hz ± 0.05Hz	50/60Hz ± 0.05Hz	50/60Hz ± 0.05Hz
Efficiency	AC - AC	91%	Up to 93%	Up to 93%
Battery	Battery Voltage	24V DC	48V DC	72V DC
	Charge Current	4A (up to 8A with optional inbuilt charger)		
Audible Noise**		< 40dB	< 43dB	< 43dB
Display		LCD display and LED indicators		
Communication Interfaces	Standard	Mini Slot x 1, RS-232 Port x1, USB Port x1		
Physical	Dimensions (W x D x H)	440 x 335 x 88mm	440 x 430 x 88mm	440 x 430 x 88mm
	Weight	5.3kg	9.0kg	9.1kg
Environment	Operating Temperature	0–50°C***	0–50°C***	0–50°C***
	Relative Humidity	5–95% (non-condensing)	5–95% (non-condensing)	5–95% (non-condensing)

When the UPS is de-rated to 90% of its capacity.

** If the UPS is running at < 75% load and in room temperature.

*** When the operating temperature is at 40–50°C, the UPS will be de-rated to 80% of its capacity. The above specifications are for EMEA models.

Technical Specification

All specifications are subject to change without prior notice.

Amplon Family, RT Series, Single Phase 1/2/3 kVA



Features

- True online double-conversion topology and zero transfer time to battery ensure high reliability
- Watch-dog design of DSP (Digital Signal Processor) increases reliability
- Cold-start capability provides temporary battery power when the utility power is out
- Fan failure detection alerts users to failed fans
- Hot swappable batteries ensure continuous operation even when batteries are being replaced
- Optional external battery pack for easy scaling of longer backup time
- High output power factor 0.9 provides more real power to critical loads
- High input power factor (pf > 0.99) and low harmonic distortion (iTHD < 5%) save upstream investment
- Up to 94% AC-AC efficiency and 97% efficiency in ECO mode result in marked energy cost savings
- Wide input voltage range reduces the chance of using the battery and extends battery life
- Intelligent battery management sustains battery life and performance
- Fan speed control by load level maximizes efficiency and reduces audible noise
- Load segment control allows less-critical loads to be disconnected during blackouts and saves battery runtime for important loads
- Convertible rack and tower configuration in 2U size cabinet
- Excellent local communications through rotatable LCD display
- Intelligent management software connectivity via RS232 or USB port

Technical Specification

Product Code		UPS102R2RT2B035	UPS202R2RT2B035	UPS302R2RT2B035
Power Rating		1kVA / 0.9kW	2kVA / 1.8kW	3kVA / 2.7kW
Input Nominal Voltage		200* / 208* / 220 / 230 / 240V AC		
Input Voltage Range		175–280V AC (full load); 120–175V AC (70–100% load)		
Input Frequency		40–70Hz	40–70Hz	40–70Hz
Input Power Factor		> 0.99 (full load)	> 0.99 (full load)	> 0.99 (full load)
Current Harmonic Distortion		< 5%	< 5%	< 5%
Output Voltage		200* / 208* / 220 / 230 / 240V AC		
Output Voltage Regulation		1% (linear load)	1% (linear load)	1% (linear load)
Output Frequency		50/60Hz ± 0.05Hz	50/60Hz ± 0.05Hz	50/60Hz ± 0.05Hz
Efficiency Online Mode		90%	Up to 94%	Up to 94%
Efficiency ECO Mode		96%	Up to 97%	Up to 97%
Battery Voltage		24V DC	48V DC	72V DC
Battery Charge Current		1.5A	2A	2A
Audible Noise		< 40dB	< 43dB	< 46dB
Display		LCD display and LED indicators		
Communication Interfaces		SMART Slot x1, RS-232 Port x 1, USB Port x1, REPO x1		
UPS Dimensions (W x D x H)		440 x 335 x 89mm	440 x 432 x 89mm	440 x 610 x 89mm
External Battery Pack Dimensions (W x D x H)		440 x 335 x 89mm	440 x 432 x 89mm	440 x 610 x 89mm
Weight	UPS	12kg	18kg	28kg
	External Battery Pack	15kg	27kg	44kg
Environment	Operating Temperature	0–50°C***	0–50°C***	0–50°C***
	Relative Humidity	5–95% (non-condensing)	5–95% (non-condensing)	5–95% (non-condensing)

When the UPS is de-rated to 90% of its capacity.

** When the total load reaches 75%.

*** 40–50°C with 80% de-rating.

All specifications are subject to change without prior notice.

Amplon Family, RT Series /6/8/10 kVA, Single Phase 15/20 kVA, Three Phase



Features

- True online double-conversion topology and zero transfer time to battery provides 24/7 full-time protection
- Unity output power factor guarantees no de-rating with loads and provides permanent 100% kW
- Best-in-class AC-AC efficiency of up to 96.5% and 99% in ECO mode lowers energy costs
- Automatic fan speed control maximizes system efficiency and significantly reduces audible noise and prolongs battery life
- Fan failure detection sends early warnings to facilitate predictive maintenance of UPS
- Programmable load bank disconnects non-critical loads when a blackout occurs and reserves more battery power for critical loads
- Up to four unit's parallel capacity allows redundancy and load expansion
- Hot swappable batteries ensure continuous operation even when batteries are being replaced
- VRLA and Li-ion External Battery Cabinet (EBC) are available for scalable runtime
- The Maintenance Bypass Breaker (MBB) is optional for easy UPS replacement without powering down critical systems
- The RRPP (Rack Remote Power Panel), which can be integrated with standard server racks, simplifies power output distribution and power monitoring
- Common battery configuration is supported in UPS parallel mode to save installation space and additional battery

Technical Specification

Product Code		UPS602R2RT0B035	UPS802R2RT0B035	UPS103R2RT0B035	UPS153R6RT2N053	UPS203R6RT2N053
Power Rating		6kVA/6kW	8kVA/8kW	10kVA/10kW	15kVA/15kW	20kVA/20kW
Input Voltage Range		100–280V (Single phase, 2-wire + G)			100–175V with linear de-rating 50–100%	
		138–485V (Three phase, 4-wire + G)			138–305V with linear de-rating 40–100%	
Input Frequency		40–70Hz				
Input Power Factor		> 0.99 (full load)				
Output Power Factor		Unity				
Output Voltage		200, 208, 220, 230, 240V AC (Single phase)			380/400/415V AC (Three phase), or 220/230/240V AC (Single phase)	
Output Frequency		50/60Hz ±0.05Hz				
Output Voltage Harmonic Distortion		≤ 2% (linear load)				
Efficiency AC-AC		Up to 95.5%			Up to 96.5%	
Efficiency ECO Mode		Up to 99%				
Battery Voltage Standard Runtime Model		192V DC	192V DC	240V DC	240V DC	±144V DC*, ±192–264V DC
Charger Current	Standard Runtime Model	1A (default)	1.5A (default)			
	Extended Runtime Model	Up to 8A			Up to 8A	
Audible Noise		48dB		50dB	54dB	
Display		Graphical and multi-lingual LCD				
Communication Interfaces		MINI Slot x 1, Parallel Port** x 2, USB Port x 1, RS232 Port*** x 1, RS485 Port x 1, REPO/ROO Port x 1, Dry Contact x 4				
Standard Runtime Model Dimensions (W x D x H)		440 x 665 x 176mm	440 x 750 x 218mm			
Extended Runtime Model Dimensions (W x D x H)		440 x 430 x 88.2mm	440 x 565 x 88.2mm		440 x 730 x 88.2mm	
Environment	Operating Temperature	0–55° C****				
	Relative Humidity	5–95% (non-condensing)				

*De-rating to 70% load.

** Only applicable to RT 5-10kVA Extended Runtime Model and RT 15/20kVA.

*** Not applicable to RT 20kVA.

**** When the operating temperature is at 40–55° C, the UPS will be de-rated to 75% of its capacity.
 All specifications are subject to change without prior notice.

Ultron Family, HPH Series, Three Phase 20 – 120 kVA



Features:

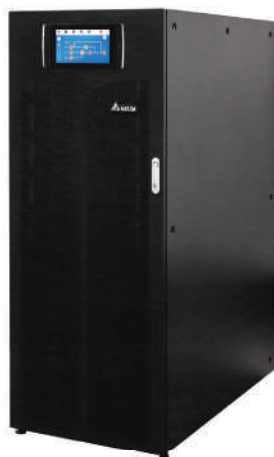
- Fully rated power (kVA=kW) for maximum power availability
- Leading AC-AC efficiency up to 96% saves energy costs
- Low harmonic pollution (ITHD<3%) and high input power factor (>0.99) reduce upstream investment costs
- Wide input voltage range allows the UPS to operate in harsh electrical environments and extends battery life
- DSP based technology enables reduction in the number of electronic components to lower failure rate
- Redundant auxiliary power and fan design* enhance system reliability
- A wide choice of configurations, such as N+X redundancy and hot stand-by
- Adjustable charging current and charging voltage meet different battery configuration requirements
- Flexible battery configuration optimizes battery investment
- Front-door battery replacement with hot-swappable battery tray design supports easy and quick replacement without turning the unit off (HPH-B / BN)
- Swappable interior architecture enables quick and easy maintenance*
- Multi-connectivity interface supports remote UPS monitoring and management

* Applied for 60–120kVAm models

Technical Specification

Product Code	GE-S203HH330035	GE-S303HH330035	GES403HH330035	GES603HH330035	GES803HH330035	*GES104HH330035	
							**GES204HH330035
Power Rating	20kVA/kW	30kVA/kW	40kVA/kW	60kVA/kW	80kVA/kW	*100kVA/kW **200kVA/kW	
Input Nominal Voltage	380 / 220V AC; 400 /230V AC; 415 / 240V AC (3 phase, 4-wire + G)						
Input Voltage Range	300–477V AC (full load); 228–300V AC (70%–100% load)			332–477V AC (full load); 228–332V AC (63%–100% load)			
Input Frequency	40–70Hz						
Input Power Factor	> 0.99 (full load)						
Current Harmonic Distortion	< 3%						
Output Voltage	380 / 220V AC; 400 / 230V AC; 415 / 240V AC (3 phase,			4-wire + G)			
Voltage Harmonic Distortion	< 1.5% (linear load)			< 2% (linear load)			
Overload Capability	≤ 105%: continuous; 106% – ≤125%: 10min.s; 126% – ≤150%: 1min.; >150%: 1 second						
Output Frequency	50/60Hz ± 0.05Hz						
Battery Voltage	240V DC						
Built-in Charge Current (Max.)	5A	9A	9A	10A	15A	20A	20A
Typical Backup Time **	15min.	10min.	9.5min.				
Parallel Redundancy	Up to 4 units						
Audible Noise	< 55dB	< 60dB		< 65dB			
IP Protection	IP20						
Physical Dimensions (W x D x H)	380 x800 x 800mm			520 x 800 x 1175mm	520 x 800 x 1760mm		
Weight	66.5kg	86.06kg	86.5kg	186.5kg	191kg	312kg	312kg
Physical Dimensions (W x D x H) (BN / B)	490 x 830 x 1400mm						
(BN / B) Weight (with batt.)	351kg	371kg	371kg				
(BN / B) Weight (without batt.)	128kg	148kg	148kg				
HPH-B: UPS integrated battery model has batteries inside HPH-BN: UPS integrated battery model has no batteries inside.							
*Applied for models HPH-60/80/100/120K.							
** At 70% load with internal battery strings.							
*** UPS needs de-rating for battery quantity 32-36 pcs. Please contact authorized Delta personnel.							
All specifications are subject to change without prior notice.							

Ultron Family, HPH Series, Three Phase 160–200 kVA



Features:

- High AC-AC efficiency of up to 96.5% and ECO mode to 99% for significant energy cost savings
- Low harmonic pollution (ITHD < 3%) and high input power factor (> 0.99) reduces upstream investment costs
- Optional redundant controller supports dual CAN bus and ring connection for high system availability
- Proactive battery aging detection for high reliability
- Easy event log check via touch panel and firmware upgrade via USB port
- Parallel expansion and redundancy up to 8 units, 1.6MVA of total power capacity
- Flexible battery configuration 30–46 pieces optimises
- Supports either top or bottom cable entry in the single cabinet. The unique fixed symmetric terminal design avoids cable bending issues to enhance cable reliability
- User-friendly 10" colored LCD with touch panel enables easy local UPS management
- Environment information such as security, water, fire and temperature can be integrated into the UPS for easy monitoring via the LCD of the UPS
- If the UPS is equipped with Delta's battery management system, the battery information can be integrated into the UPS and monitored via LCD

Technical Specification

Product Code	GES164HH330035	GES204HH330035
Power Rating	160kVA* / 150kW	200kVA / 200kW
Input Nominal Voltage	220/380 V AC, 230 / 400V AV, 240 / 415V AC (3-phase, 4-wire + G)	
Input Voltage Range	176–276V AC (full load)	176–276V AC (full load)
Current Harmonic Distortion	≤3% **	≤3% **
Input Frequency	40–70Hz	40–70Hz
Output Voltage	220/380V AC, 230/400V AC, 240/415V AC (3-phase, 4-wire + G)	
Output Voltage Harmonic Distortion	≤0.5% (linear load)	≤0.5% (linear load)
Output Frequency	50/60Hz	50/60Hz
Overload Capability	≤125%: 10min.s; ≤150%: 1min.	≤125%: 10min.s; ≤150%: 1min.
Efficiency AC-AC Mode	Up to 96.5%	Up to 96.5%
Battery Nominal Voltage	±240V DC	±240V DC
Battery Charge Voltage	±272V DC (adjustable from 204V to 312V)	±272V DC (adjustable from 204V to 312V)
Environment Operating Altitude	1000 meters (without derating)	1000 meters (without derating)
Operating Temperature	0–40°C	0–40°C
Audible Noise	<70dB	<70dB
Relative Humidity	0–95% (non-condensing)	0–95% (non-condensing)
Parallel Redundancy and Expansion	Maximum 8 units	Maximum 8 units
Physical Dimensions (W x D x H)	600 x 1100 x 1600mm	600 x 1100 x 1600mm
Weight	339kg	376kg

*The power rating is adjustable from default 160kVA to 150kVA via touch panel.

** When input vTHD is less than 1%.

Modulon Family, NH Plus Series, Three Phase 20–120 kVA



Features:

- Available from 20 to 480 kVA (4 units x 120 kVA in parallel)
- Redundancy at module and system level
- Hot-swappable function ensures uninterrupted operations during maintenance
- Redundant auxiliary power and control circuit ensures higher reliability
- Inbuilt maintenance and static bypass switch
- Modular design provides easy maintenance and scalability
- Multi-language LCD display and LED status indicators
- Two SMART slots and six programmable dry contact outputs
- Optional external battery cabinet for longer backup time
- Low harmonic distortion (iTHD<3%) optimized generator size to save initial investment
- High input and output power factor (I/P PF >0.99; O/P PF up to 0.9) and 94% high efficiency reduce operating costs

Technical Specification

Product Code	NHP20K = GES803HP3312035 & 1 x 3915101156-S	NHP40K = GES803HP3312035 & 2 x 3915101156-S	NHP60K = GES803HP3312035 & 3 x 3915101156-S	NHP80K = GES803HP3312035 & 4 x 3915101156-S	NHP100K = GES124HP3312035 & 5 x 3915101156-S	NHP120K = GES124HP3312035 & 6 x 3915101156-S
Power Rating*	20kVA / 18kW	40kVA / 36kW	60kVA / 54kW	80kVA / 72kW	100kVA / 90kW	120kVA / 108kW
Input Nominal Voltage	380 / 220; 400 / 230; 415 / 240V AC (3 phase, 4-wire + G)					
Input Voltage Range	300–477V AC (full load); 208–300V AC (70%–100% load)					
Input Current Harmonic Distortion	< 3% (full load)	< 3% (full load)	< 3% (full load)	< 3% (full load)	< 3% (full load)	< 3% (full load)
Input Power Factor	> 0.99	> 0.99	> 0.99	> 0.99	> 0.99	> 0.99
Input Frequency	45–65Hz	45–65Hz	45–65Hz	45–65Hz	45–65Hz	45–65Hz
Output Voltage	380 / 220; 400 / 230; 415 / 240V AC (3 phase, 4-wire + G)					
Output Power Factor	0.9	0.9	0.9	0.9	0.9	0.9
Voltage Harmonic Distortion	< 3% (linear load)	< 3% (linear load)	< 3% (linear load)	< 3% (linear load)	< 3% (linear load)	< 3% (linear load)
Voltage Regulation	± 1% (static)	± 1% (static)	± 1% (static)	± 1% (static)	± 1% (static)	± 1% (static)
Frequency	50/60Hz ± 0.05Hz	50/60Hz ± 0.05Hz	50/60Hz ± 0.05Hz	50/60Hz ± 0.05Hz	50/60Hz ± 0.05Hz	50/60Hz ± 0.05Hz
Overload Capability	≤ 125%: 10min.s; ≤ 150%: 1min.					
Relative Humidity	0–95% (non-condensing)					
Audible Noise (at one meter)	< 65dB	< 68dB	< 68dB	< 70dB	< 72dB	< 73dB
Physical Dimensions UPS (W x D x H)	520 x 855 x 1165mm	520 x 975 x 1695mm	520 x 975 x 1695mm	520 x 975 x 1695mm	520 x 975 x 1695mm	520 x 975 x 1695mm
Physical Dimensions Battery Pack (W x D x H)	520 x 855 x 1165mm (26Ah x 40pcs) 520 x 855 x 1695mm (40Ah x 40pcs)					
Weight	170kg	200kg	230kg	260kg	350kg	380kg

* Power rating in kW is subject to reconfiguration of the UPS; Delta provides the configuration service. All specifications are subject to change without prior notice.

Modulon Family, DPH Series, Three Phase 20–80/120 kVA, Three-Phase UPS



The next generation of modular UPS

UPS systems designed for ultimate availability, excellent performance, high efficiency, and ideally suited for medium-sized datacenters. In this IT intensive world with heavy data traffic driven by cloud, 4G/5G and media streaming applications, IT managers are facing the challenges of increasing rack power density and limited data center space. Delta's innovative modular UPS technologies provide the answer to customers' demand for ultimate availability, excellent performance, and high efficiency.

The brand-new Delta Modulon DPH series UPS 80/120 kVA achieves the industry's leading power density of 20kW per module in 2U height, offering the smallest footprint and best space utilization. The Modulon DPH Series UPS is the ideal modular power protection for all critical IT application with its' small package, flexibility and seamless integration.

Excellent power performance

- The industry's leading power technology offers up to 120kW within all equipped breakers in 162.8 kW/m³ which supports the top/bottom cable entry without additional cabinet to achieve the best utilization compared with its peers
- High AC-AC efficiency over 96% and ECO mode to 99% resulting in marked energy cost savings
- Green mode featuring a load aggregation function optimizes system efficiency

Ultimate availability

- Fully modularized design and hot-swappable key modules ensure Mean Time To Repair (MTTR) close to zero without downtime risk
- Redundant components and dual CAN bus deliver highest system availability and avoids single point of failure
- Key components aging pre-warning mechanism to provide the proactive reliability to minimize the human error and reduce the downtime risk (optional).

High manageability

- User-friendly 10" color touch screen enables easy local UPS management
- Environment information such as temperature, humidity and transmits signals from environment sensor can be integrated into the UPS for easy monitoring via the LCD of the UPS
- If the UPS is equipped with an external battery management system, the battery information can be integrated into the UPS and monitored via the LCD of the UPS

*Please enquire as this is a customised offer

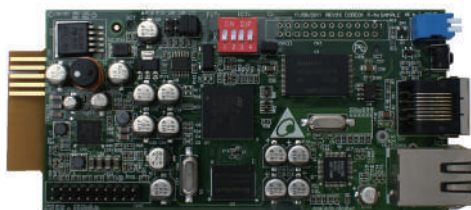
Technical Specification

Product Code	DPH 80 System	DPH 120 System
Power Rating	20 / 40 / 60 / 80kVA	20 / 40 / 60 / 80 / 100 / 120kVA
Power Rating	20 / 40 / 60 / 80kW	20 / 40 / 60 / 80 / 100 / 120kW
Input Nominal Voltage	220 / 380V, 230 / 400V, 240/415V (3-phase, 4-wire +G)	
Input Voltage Range	305–478V AC (full load)	305–478V AC (full load)
Current Harmonic Distortion	≤ 2% *	≤ 2% *
Input Power Factor	> 0.99	> 0.99
Input Frequency Range	50 / 60Hz	50 / 60Hz
Output Voltage	220 / 380V, 230 / 400V, 240 / 415V (3-phase, 4-wire +G)	
Output Voltage Harmonic Distortion	≤ 1% (linear load); ≤ 4% (non-linear load)	≤ 1% (linear load); ≤ 4% (non-linear load)
Output Voltage Regulation	±1% (static)	±1% (static)
Output Frequency	50 / 60Hz	50 / 60Hz
Overload Capability	≤ 125%: 10min.; ≤ 150% : 1min.; >150%: 1 second	
Interface Standard	External battery temperature dry contact x4, External switch/breaker status dry contact x4, Output dry contact x6, Input dry contact x4, Parallel port x2, USB Port (Type A x2; Type B x1), RS232 Port x1, Modbus Port x1, BMS (RJ45) x1, Ethernet x1, SNMP Slot x1, REPO Port x1	
Battery Nominal Voltage	± 240V DC (default, ±180V DC–±276V DC configurable)	
Charge Voltage	± 272V DC (adjustable from 204V to 312V)	
Relative Humidity	95% (non-condensing)	
Audible Noise (at one meter)	< 65dB	< 65dB
Parallel Redundancy and Expansion	Module and system redundancy; Maximum 8 units Battery Start	Yes
Physical Dimensions (W x D x H)	600 x 850 x 1445mm	600 x 850 x 1445mm
Weight: UPS System (without power modules)	150kg	162kg
Weight: 20kW Power Module (optional)	18kg	18kg

When input voltage total harmonic distortion input is less than 1%. All specifications are subject to change without prior notice.

UPS Accesories

SNMP IPv6 Card



Functions and features

Network

SNMP

- SNMPv1/v3 protocol support; accepts NMS monitoring as well as actively sends Trap packets to target hosts Support IPv4 and IPv6 TCP/IP protocol

HTTP/HTTPS

- Monitor and set up through network browser with built-in web server

Others

- Telnet, SSH, FTP, SFTP, BOOTP, DHCP, SMTP, SNTP, WOL and RADIUS, Syslog

MIB

- Supports RFC1628 and Delta proprietary UPSv4 MIB, UPSv5 MIB

Management

Regular power on and off

- Can set up UPS power on and off time

Regular testing

- Battery discharge test to ensure the battery is in good condition

Smart power off

- Can send power off signal to connected host actively if the host computer has the InfraSuite Device Master or SNMP power off proxy installed

Probe

- Optional environment probe can integrate ambient temperature and humidity for total cabinet monitoring

Technical specification

Product Code	3915100975-S35
10 / 100M RJ45 connector	
Operation Temperature	0–60°C
Input Power	12V DC
Power Consumption	< 2W
Dimensions	130 x 60mm
Weight	75g

Relay I/O Card



Functions and features

Output

Programmable

- 6 output relays, each of them can be configured to represent one of the 20 UPS events respectively

NC/NO

- 6 output relays, each of them can be configured to either NC (Normal Close) or NO (Normal Open)

Input

Programmable

- The input signal can be configured to turn off the UPS or to issue battery test command

Technical Specifications

Product Code	3915100147-S
Operation Temperature	0–40°C
Input Power	8–20V DC
Power Consumption	< 1.2W
Dimensions	130 x 60mm
Weight	200g

Modbus Card

Convert status and parameter data of your UPS to comply with the standard Modbus protocol

Functions and features

Communications interface

- 1x RS232 port; 1x RS485 or RS422 port

ID

- Device ID can be set to any number between 0–255

Terminating resistor

- Terminating resistance of RS485 / 422 can be set by dip switch

Input power

- 8–20V DC

Power consumption

- < 1.2W

Parity check

- None, even or odd

Modbus communications format

- Supports RTU format

Dimensions

- 130 x 60mm

Weight

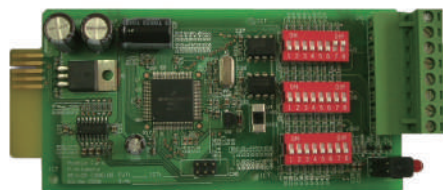
- 150g

Baud rate

- 2400, 4800, 9600 or 19200

Data bit

- 7 or 8



Technical specifications

Product Code	3915100422-S
Operation Temperature	0 –40°C
Input Power	8–20V DC
Power Consumption	< 1.2W
Dimensions	130 x 60mm
Weight	150g

Mini SNMP IPv6 Card

Functions and features

Network

SNMP

- SNMPv1, v2c and v3 protocols support; accepts NMS monitoring as well as actively sends Trap packets to target hosts; supports IPv4 and IPv6 TCP/IP protocol

Web

- Monitor and set up through network browser with built-in web server

Protocol

- HTTP, HTTPS, Modbus TCP, Telnet, SSH, FTP, SFTP, DHCP, SMTP, SNMP, RADIUS, Syslog, and WOL

MIB

- Supports RFC1628 and Delta proprietary UPSv4 MIB, UPSv5MIB

Management

Regular power on and off

- Can set up UPS power on and off time

Regular testing

- Battery discharge test to ensure the battery is in good condition.

Smart Shutdown

- Can send power off signal to connected host actively if the host computer has Shutdown Agent installed

Probe

- Optional environment probe can integrate ambient temperature and humidity with 4 additional digital inputs for total cabinet monitoring

Diagnosis

Event log

- Keep date, time, and event sequence in event log file
- Keep date, time, and UPS parameter data. Can be exported into XLS file for further processing

Reaction to events

UPS shutdown

- Define delay time for UPS power off to avoid deep discharge

Email

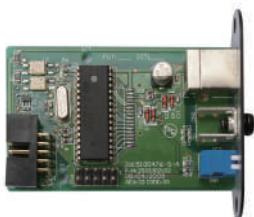
- Send email notification to predefined recipients in case of power event



Technical Specifications

Product Code	SCMS100035
Network Connection	RJ-45 jack connector
Operation Temperature	0–60°C
Input Power	12V DC
Power Consumption	2 Watt Maximum
Dimensions	87 x 70 x 30mm
Weight	75g

Mini USB Card



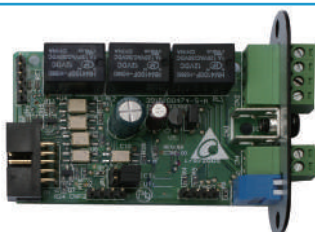
Functions and features

- Communication Protocol
- SCL: Delta Regular v1.51
- USB: Delta HID Protocol v3.4
- Support HID (Human Interface Device) protocol. The UPS can communicate with Windows XP/2003/2008/2012/Win7/Win8 without monitoring software
- Compatible with Delta UPS standard software: UPS entry 2012

Technical specifications

Product Code	3915100476/S
Dimensions	68 x 43mm
Weight	30g
Operating temperature	0–40°C
Input power	12V DC
Power consumption	0.5W

Mini Dry Contact Card



Functions and features

- UPS status information presented as 3 contact closures
- Configurable input signal as shutdown UPS or battery test
- Programmable output contact to monitor status of UPS
- Configurable UPS shutdown delay time
- Protects up to 3 computers
- Unattended graceful shutdown

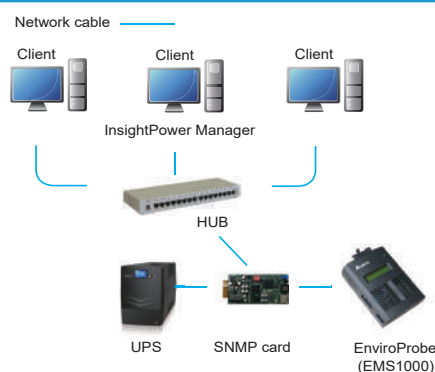
Technical specifications

Product Code	3915100474-S
Dimensions	68 x 43mm
Weight	35g
Operating temperature	0–40°C
Input power	8–20V DC
Power consumption	0.8W

EnviroProbe

Functions and features

- LCD display
- Ambient temperature & humidity monitoring and water-leakage detection
- Digital & analog input/output contacts for monitoring and controlling other devices
- Supports SNMP communications protocol
- InfraSuite Device Master software for remote monitoring and recording



Technical specifications

Product Code	EMS1000	EMS1100	EMS1200
Input	EMS2000 Delta-BUS or SNMP Card: 12V DC (pin 1 & 4) with PDU SNMP card: 5V DC (pin 2 & 4)		
Input / Output Contacts	4 inputs (dry/wet)	4 digital outputs	2 analog inputs, 1 analog output and 1 water-leakage detection.
Dimensions (W x D x H)	66 x 33 x 103mm	66 x 33 x 103mm	66 x 33 x 103mm
Weight	120g	130g	130g
Temperature	± 0.4°C @ 0°C–60°C	± 0.4°C @ 0°C–60°C	± 0.4°C @ 0°C–60°C
Humidity Accuracy	±3% RH @ 0–80% RH	±3% RH @ 0–80% RH	±3% RH @ 0–80% RH
Safety regulation compliance	CE, EN55022 Class B	CE, EN55022 Class B	CE, EN55022 Class B



Delta Power Quality Solution Evolution

Delta PQC series power quality solution consists of the Active Power Filter (APF) and Static VAR Generator (SVG). Both provide an active compensation solution based on power electronics technology. Compared with conventional passive compensation solutions such as capacitor banks, an active compensation solution improves the reliability and quality of the power distribution system.



SVG Module
PQCMS104BHB00B0

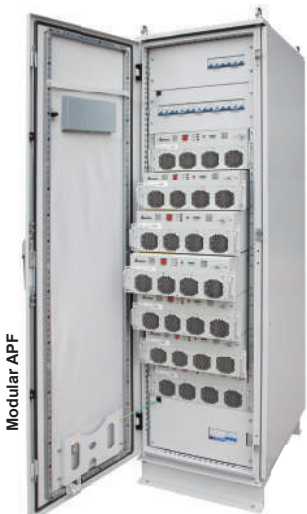


APF Module
PQCMA101BHA00B0

Comparison between Capacitor Bank, SVG and APF

Item	Capacitor Bank	SVG	APF
Harmonic Filtering	Unavailable	Unavailable	Eliminate 2nd–50th harmonics (selectable)
Reactive Power Compensation	Discretely compensate inductive reactive power only	Steplessly compensate both inductive and capacitive reactive power	Steplessly compensate both inductive and capacitive reactive power
Imbalance Correction	Unavailable	Available	Available
Response Speed	Slow, can't track dynamic reactive power (20ms–5s)	Fast, can track dynamic reactive power (<0.1ms)	Fast, can track dynamic harmonic & reactive loads (<0.1ms)
Harmonic Resonance Problem	Potential resonance between capacitor and transformer sabotages power system stability.	Active compensation technology avoids harmonic resonance from the principle.	Active compensation technology avoids harmonic resonance from the principle.
Output Ability	Actual output capacity is less than the rated capacity.	Actual output capacity is the same as rated capacity.	Actual output capacity is the same as rated capacity.

Modular APF and Wall-mounted APF



Fixed Type Cabinet APF
PQCA-400-50-100FC3(4) to
PQCA-400-100-500FC3(4)



Wall Mounted APF
PQCA-400-50-50WM4

Modular APF

APF modules and HMI/ LCM can be embedded in Delta's standard APF cabinet or a customised cabinet. There are breakers, cable terminals and Surge Protection Device (SPD) in the APF cabinet.

- APF is a fixed type modular (not hot-swappable).

Wall-mounted APF

Delta's Wall-mounted APF can be installed on a wall, which is suitable for low rating applications, and wall-mounted type HMI/ LCM can be installed on the wall-mounted APF module, along with a mounting bracket to provide support and protection.

APF Compensation Performance

Delta's PQC Series APF can perfectly mitigate harmonic current, and suppress harmonic voltage caused by the harmonic current. When the APF capacity is sufficient and background harmonic voltage is low, the APF ensures excellent compensation performance at full load condition, as below:

- THDu (Total Harmonic Distortion of Voltage) < 3%
- THDi (Total Harmonic Distortion of Current) < 5%
- PF (Power Factor) ≥ 0.99 (improves both leading and lagging PF)
- Neutral Current Attenuation Ratio (IN(Before) - IN(After) / IN(Before)) > 95%

Delta PQC Series APF Features

- Multifunctional: Harmonic, reactive power and imbalance compensation
- High harmonic filtering rate: Up to 98%
- Excellent reactive compensation: High speed, Precise (-0.99 ≤ PF ≤ 0.99), Step-less, Bi-directional (capacitive and inductance) compensation
- Excellent imbalance correction: Both negative and zero sequence, mitigates neutral current
- Wide input voltage & frequency range, adapts to tough electrical environments
- Low thermal loss (≤ 3% of rated APF kVA), efficiency ≥ 97%
- High stability: Infinite impedance to grid, avoids harmonic resonance problems
- Flexible application: Modular design, embedded in standard or customised cabinet
- Easy installation and maintenance: Plug-in installation for APF module replacement and expansion
- Wide capacity range: 50A–525A for a single cabinet, up 10 cabinets in parallel
- Environmental adaptability: -10–50°C temperature, compatible with diesel generator
- Complete protection: Grid Over/Under voltage, APF over current, over temperature, and more. All faults are recorded in the event log, which is convenient for failure analysis

PQC Series APF Model

Product Reference	APF Capacity	Product Code	Description	Quantity To Order	APF System Type	Structure
PQCA-400-50-50-WM4	50A	PQCA101ANB21B0	Wall Mounted HMI	1	Independent Module System	Wall-mounted
		PQCA500BVB00B0	50 AMP MODULE and cabinet APF (3P4W)	1		
		3313192900-SP	WALL MOUNTED BRACKET	1		
PQCA-400-100-100WM3(4)	100A	PQCSA101BVA00B0	APF 100 AMP CAB-INET+ HMI and all accessories IP30	1	Independent Module System	Wall-mounted
PQCA-400-100-100FC3(4)	100A	PQCA101A1B000Z1	1-module Cabinet fitting Fixed Type 400V 100A APF (IP30)	1	Cabinet System (Multiple Modules)	Fixed Type Cabinet
		PQCA101BHA00B0	"100 AMP MODULE APF 4W 380V FIXED"	1		
PQCA-400-100-200FC3(4)	200A	PQCA101A3B000Z1	3-module Cabinet fitting Fixed Type 400V 100A APF (IP30)	1	Cabinet System (Multiple Modules)	Fixed Type Cabinet
		PQCA101BHA00B0	"100 AMP MODULE APF 4W 380V FIXED"	2		
PQCA-400-100-300FC3(4)	300A	PQCA101A3B000Z1	3-module Cabinet fitting Fixed Type 400V 100A APF (IP30)	1	Cabinet System (Multiple Modules)	Fixed Type Cabinet
		PQCA101BHA00B0	"100 AMP MODULE APF 4W 380V FIXED"	3		
PQCA-400-100-400FC3(4)	400A	PQCA101A5B000Z1	5-module Cabinet fitting Fixed Type 400V 100A APF (IP30)	1	Cabinet System (Multiple Modules)	Fixed Type Cabinet
		PQCA101BHA00B0	"100 AMP MODULE APF 4W 380V FIXED"	4		
PQCA-400-100-500FC3(4)	500A	PQCA101A5B000Z1	5-module Cabinet fitting Fixed Type 400V 100A APF (IP30)	1	Cabinet System (Multiple Modules)	Fixed Type Cabinet
		PQCA101BHA00B0	"100 AMP MODULE APF 4W 380V FIXED"	5		

Modular SVG and Wall Mounted SVG



Fixed Type Cabinet SVG
PQCS-400-50-100FC3(4) to
PQCS-400-100-700PC3(4)

SVG Structure

- Delta PQC Series SVG is also in modular structure, and the Delta SVG system consists of one or several SVG modules and a display. There are two types of displays, one is Touch Panel Human Machine Interface (HMI), which is touch-screen type, and the other one is non-touch-screen type, call Liquid Crystal Monitor (LCM).
- SVG's HMI or LCM can be shared with Delta APF modules.
- Each SVG module is an independent reactive power compensation system, and users can change the SVG rating by adding or removing SVG modules.
- SVG modules and LCM panel can be embedded in Delta's standard SVG cabinet or in a customised cabinet. There are breakers, cable terminals and Surge Protection Device (SPD) in the SVG cabinet.

SVG Compensation Performance

Delta's PQC Series SVG can rapidly and continuously compensate both inductive and capacitive reactive power, and correct load imbalance. With sufficient capacity, the SVG ensures excellent fundamental power factor improvement performance.

- Fundamental Power Factor (Cosφ) ≥ 0.99 (improves both leading and lagging PF)

Delta PQC Series SVG Features



Wall Mounted SVG
PQCS-400-50-50WM4

- Multifunctional: Reactive power and imbalance compensation
- Excellent reactive compensation: High speed, Precise ($-0.99 \leq \cos\phi \leq 0.99$), Step-less, Bi-directional (capacitive and inductance) compensation
- Excellent imbalance correction: Both negative and zero sequence, mitigates neutral current
- Wide input voltage & frequency range, adapts to tough electrical environment
- Low thermal loss ($\leq 3\%$ of rated SVG capacity), efficiency $\geq 97\%$
- High stability: Infinite impedance to grid, avoids harmonic resonance problem
- Flexible application: Modular design, embedded in standard or customised cabinet
- Easy installation and maintenance: Easy installation for APF module replacement and expansion
- Wide capacity range: 50kVAr–700kVAr for a single cabinet, up to 10 cabinets in parallel
- Environmental adaptability: $-10\sim 50^{\circ}\text{C}$ temperature, compatible with diesel generators
- Complete protection: Grid over/under voltage, SVG over current, over temperature, and others. All faults recorded in event log, convenient for failure analysis

PQC Series SVG Model

Product Reference	SVG Capacity	Product Code	Description	Quantity To Order	SVG System Type	Structure
PQCS-400-50-50WM4	50kVAr	PQCSMA101ANB21B0	Wall Mounted HMI	1	Independent Module System	Wall-mounted
		PQCMS503BVB00B0	50kVAr module and cabinet SVG (3P4W)	1		
		3313192900-SP	Wall mounted bracket	1		
PQCS-400-100-100WC3(4)	100kVAr	PQCSS104BVA00B0	100kvar front SVG Wall-mounted Type System (3P4W) - including HMI and all accessories IP30	1	Independent Module System	Wall-mounted
PQCS-400-100-100PC3(4)	100kVAr	PQCS104A2B000Z1	2-module Cabinet fitting Fixed Type 100kvar SVG (IP30)	1	Cabinet System (Multiple Modules)	Fixed Type Cabinet
		PQCMS104BHB00B0	400V 100kvar SVG Fixed Type Power Module (3P4W) Front	1		
PQCS-400-100-200PC3(4)	200kVAr	PQCS104A2B000Z1	2-module Cabinet fitting Fixed Type 100kvar SVG (IP30)	1	Cabinet System (Multiple Modules)	Fixed Type Cabinet
		PQCMS104BHB00B0	400V 100kvar SVG Fixed Type Power Module (3P4W) Front	2		
PQCS-400-100-300PC3(4)	300kVAr	PQCS104A5B000Z1	5-module Cabinet fitting Fixed Type 100kvar SVG (IP30)	1	Cabinet System (Multiple Modules)	Fixed Type Cabinet
		PQCMS104BHB00B0	400V 100kvar SVG Fixed Type Power Module (3P4W) Front	3		
PQCS-400-100-400PC3(4)	400kVAr	PQCS104A5B000Z1	5-module Cabinet fitting Fixed Type 100kvar SVG (IP30)	1	Cabinet System (Multiple Modules)	Fixed Type Cabinet
		PQCMS104BHB00B0	400V 100kvar SVG Fixed Type Power Module (3P4W) Front	4		
PQCS-400-100-500PC3(4)	500kVAr	PQCS104A5B000Z1	5-module Cabinet fitting Fixed Type 100kvar SVG (IP30)	1	Cabinet System (Multiple Modules)	Fixed Type Cabinet
		PQCMS104BHB00B0	S400V 100kvar SVG Fixed Type Power Module (3P4W) Front	5		
PQCS-400-100-600PC3(4)	600kVAr	PQCS104A7B000Z1	7-module Cabinet fitting Fixed Type 100kvar SVG (IP30)	1	Cabinet System (Multiple Modules)	Fixed Type Cabinet
		PQCMS104BHB00B0	400V 100kvar SVG Fixed Type Power Module (3P4W) Front	6		
PQCS-400-100-700PC3(4)	700kVAr	PQCS104A7B000Z1	7-module Cabinet fitting Fixed Type 100kvar SVG (IP30)	1	Cabinet System (Multiple Modules)	Fixed Type Cabinet
		PQCMS104BHB00B0	400V 100kvar SVG Fixed Type Power Module (3P4W) Front	7		



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