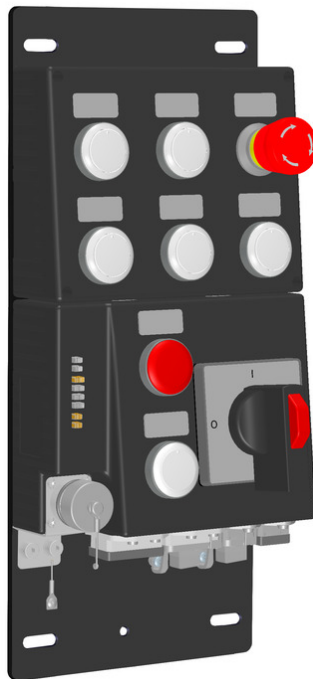


ITEM 110816 MGB-CB-PN-110816

Description	Technical data	Accessories	Downloads
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Features

- › Control panel
- › Emergency stop according to ISO 13850
- › 6 pushbuttons illuminated
- › Operating mode selector switch
- › 1 indicator
- › Including adhesive labels
- › Push-pull plug
- › Including terminal plug for enabling switch (RC12, 12-pin)
- › Pre-assembled on mounting plates
- › Integrated Profinet RT switch

Profinet connection

Connection via push-pull plugs according to IEC 61076-3-117

Profinet RT switch

Point-to-point topology network structure due to integrated RT switch.

Approvals



Mechanical values and environment

Housing material	Reinforced plastic, die-cast zinc nickel-plated, stainless steel
Weight	Net 2,7 kg
Ambient temperature	At $U_B = 24V DC$ -20 ... 55 °C
Degree of protection	IP54
Resilience to vibration	In accordance with EN 60947-5-3
Installation position	Any
Reaction time	
Emergency stop / machine stop	Switch-off timemax.250 ms ^[1]
Operating mode selector switch	Switch-off timemax.220 ms ^[2]
Enabling switch	Switch-off timemax.250 ms ^[3]
Switching frequency	0,25 Hz
Connection	
	Push-pull power ^[4]
	Push-pull power ^[5]
According to IEC 61076-3-117 variant 14, screened, Profinet I/O cable, at least cat. 5e	Push-pull RJ45 ^[6]
According to IEC 61076-3-117 variant 14, screened, Profinet I/O cable, at least cat. 5e	Push-pull RJ45 ^[7]
	Plug connector RC12 ^[8]

Electrical connection ratings

Current consumption	max.500 mA
Rated insulation voltage U_i	75 V
Rated impulse withstand voltage U_{imp}	0,5 kV
Maximum feed-in current in the connection block	
X1, X2	max.4000 mA
EMC protection requirements	In accordance with EN 61000-4 and EN 61326-3-1
Degree of contamination (external, according to EN 60947-1)	3
Connecting cable	
Ethernet	Profinet I/O cable, at least cat. 5e
Safety class	III
	Power supply X1
Operating voltage DC	

	L1	24 V DC -15% ... 10% [9]
Auxiliary voltage DC		
	L2	24 V DC -15% ... +10% [10]
Fusing		
	external	Slow blowmin.1 A
		Power supply X2
Operating voltage DC		
	L1	24 V DC -15% ... 10% [11]
Auxiliary voltage DC		
	L2	24 V DC -15% ... +10% [12]

Interface, bus

Data interface	Ethernet	
Data protocol		
	Bus protocol	Profinet (IEC 61158 type 10)
	Safety protocol	Profisafe (IEC 61784-3-3)

Controls and indicators

Assignment diagram	C3
Assignment diagram	B2
Control/indicator	
	Position 1
Version	Illuminated push buttons
Special features	
Color	white
Switching element	1NO
Slide-in label	
Control/indicator	
	Position 2
Version	Illuminated push buttons
Special features	
Color	white
Switching element	1NO
Slide-in label	
Control/indicator	
	Position 4
Version	Illuminated push buttons
Special features	
Color	white
Switching element	1NO
Slide-in label	

Control/indicator	
	Position 5
Version	Illuminated push buttons
Special features	
Color	white
Switching element	1NO
Control/indicator	
	Position 6
Version	Illuminated push buttons
Special features	
Color	white
Switching element	1NO
Control/indicator	
	Position 7
Version	Emergency stop
Special features	
Color	
Switching element	2 pos. driven NC
Slide-in label	
Control/indicator	
	Position 11
Version	Cover for indicators
Special features	
Color	Red
Switching element	
Control/indicator	
	Position 12
Version	Illuminated push buttons
Special features	
Color	white
Switching element	1NO
Slide-in label	
Control/indicator	
	Position 13
Version	Operating mode selector switch
Special features	
Color	
Switching element	Code 2 of 3
Slide-in label	Unsecured ; special function ; S-zone secured

Miscellaneous

Product version number	V3.30.10
Slide-in label	
	4 pcs. without marking
	Anlage Start

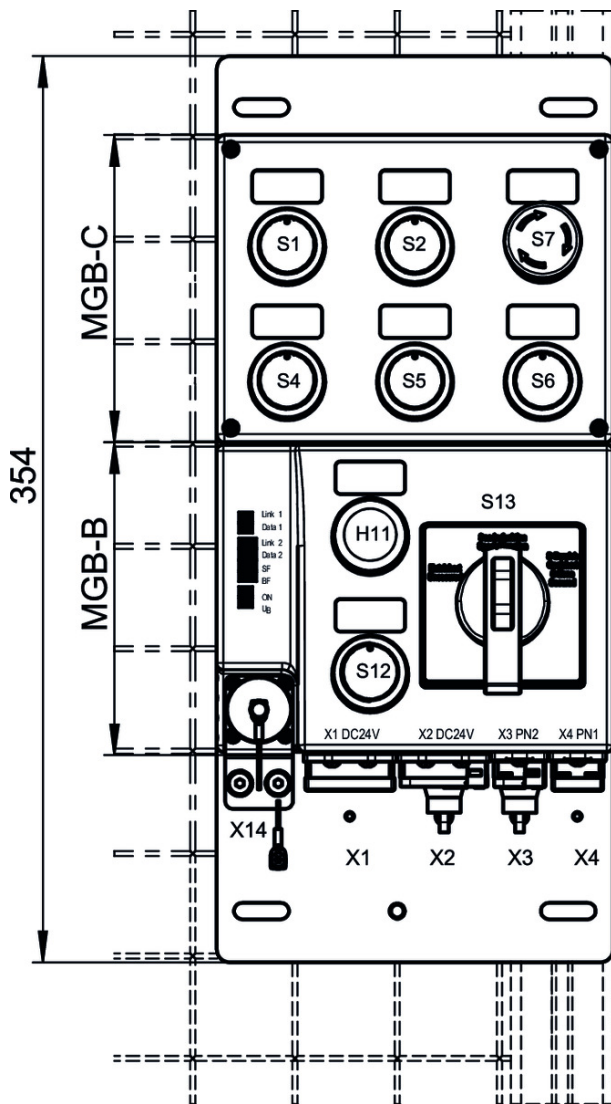
	Anlage Stopp
	S-Bereich Quittieren
	S-Bereich Gesichert
	Line Start
	Line Stop
	S-Zone Reset
	S-Zone Secured

Reliability values acc. to EN ISO 13849-1

	Emergency stop
B10 _D	
Emergency stop	0.1 x 10 ⁶
	Emergency-stop evaluation
Category	4
Performance Level	PL e
PFH _D	4.1 x 10 ⁻⁸
	Selector switch evaluation
Category	4
Performance Level	PL e
PFH _D	4.1 x 10 ⁻⁸
	Enabling switch
B10 _D	
Enabling switch	According to manufacturer's specifications
	Enabling switch evaluation
Category	4
Performance Level	PL e
PFH _D	4.1 x 10 ⁻⁸
<hr/>	
Performance Level	PL e
Category	4
Safety Integrity Level	SIL 3 (EN 62061:2005)
Diagnostic Coverage (DC)	99
Mission time	20

- [1, 2, 3] The reaction time is the max. time between the change in the input status and the deletion of the corresponding bit in the bus protocol.
- [4] X1 (The document PROFINET "Cabling and Interconnection Technology" from the PNO aids in the correct selection of wiring.)
- [5] X2 (The document PROFINET "Cabling and Interconnection Technology" from the PNO aids in the correct selection of wiring.)
- [6] X3 (The document PROFINET "Cabling and Interconnection Technology" from the PNO aids in the correct selection of wiring.)
- [7] X4 (The document PROFINET "Cabling and Interconnection Technology" from the PNO aids in the correct selection of wiring.)
- [8] X14
- [9] (Reverse polarity protected, regulated, residual ripple <5%, PELV)
- [10] The auxiliary voltage is not required for the MGB system
- [11, 12] For looping through for connected devices

Dimension drawing



Miscellaneous accessories

- ▼ Lens set 5 colors



120344 AY-SET-LNS-0001-120344

▼ Lens set 6 colors



120378 AY-SET-LNS-0002-120378

▼ Lens set labeled



120377 AY-SET-LNS-SY01-120377

▼ Adhesive labels

114529 MGB-A-PLATESET-NN01-114529

▼ Features

- › Adhesive labels suitable for MGB evaluation modules, bus modules and control modules
- › silver, blank
- › Packaging unit = 10 pcs.

▼ Lens set, three colors



158307 AY-SET-LNS-SY04-158307




Instructions

▼ Betriebsanleitung Sicherheitssysteme MGB-L..B-PN.-... (PROFINET) mit Datenstruktur Typ A ab V3.30.0


	Doc. no.	Version	Language	Download
Betriebsanleitung Sicherheitssysteme MGB-L..B-PN.-... (PROFINET) mit Datenstruktur Typ A ab V3.30.0	114575	04-03/15		2.7 MB
Operating Instructions Safety Systems MGB-L..B-PN.-... (PROFINET) with Data Structure Type A from V3.30.0	114575	04-03/15		2.8 MB







▼ Sicherheitsinformation (Teil der Betriebsanleitung Sicherheitssystem MGB-L..B-PN.-... (PROFINET)) ab V3.30.0

Doc. no.	Version	Language	Download
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Sicherheitsinformation (Teil der Betriebsanleitung Sicherheitssystem MGB-L.B-PN.-... (PROFINET)) ab V3.30.0 Safety Information (Part of the Operating Instructions Safety System MGB-L.B-PN.-... (PROFINET)) from V3.30.0	123621	02-03/15	 	 0.2 MB
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Declaration of conformity

 EU-Konformitätserklärung

	Doc. no.	Version	Language	Download
EU-Konformitätserklärung Declaración UE de conformidad Déclaration UE de conformité Dichiarazione di conformità EU declaration of conformity	2123624	06-01/17	    	 0.3 MB

CAD data

CAD data for this item on TraceParts