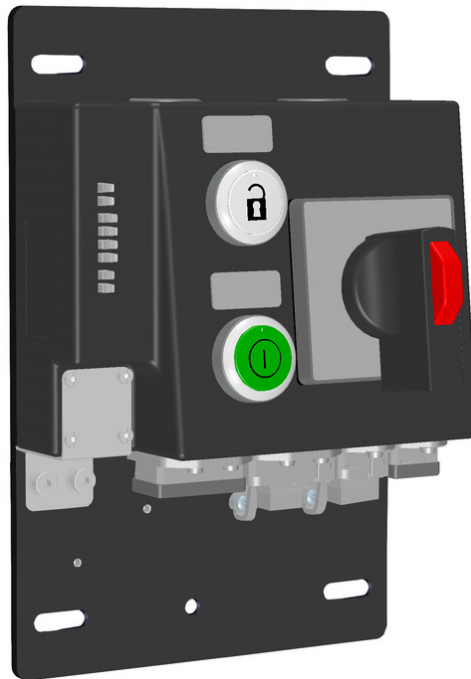


ITEM 157325 MGB-B-A4W2A2-PN-157325

Description	Technical data	Accessories	Downloads
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Features

- › 2 illuminated pushbuttons
- › Operating mode selector switch
- › Including adhesive labels
- › Push-pull plug
- › 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 1,8 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	
Operating mode selector switch	Switch-off time max. 220 ms ^[1]
Switching frequency	0,25 Hz
Connection	
	Push-pull power ^[2]
	Push-pull power ^[3]
According to IEC 61076-3-117 variant 14, screened, Profinet I/O cable, at least cat. 5e	Push-pull RJ45 ^[4]
According to IEC 61076-3-117 variant 14, screened, Profinet I/O cable, at least cat. 5e	Push-pull RJ45 ^[5]

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% ^[6]
Auxiliary voltage DC	
L2	24 V DC -15% ... +10% ^[7]
Fusing	

	external	Slow blowmin.1 A
		Power supply X2
Operating voltage DC	L1	24 V DC -15% ... +10% [8]
Auxiliary voltage DC	L2	24 V DC -15% ... +10% [9]

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	B4
Control/indicator	
	Position 90
Version	Illuminated push buttons
Special features	Printed
Color	white
Switching element	1NO
Control/indicator	
	Position 91
Version	Operating mode selector switch
Special features	
Color	
Switching element	Code 2 of 3
Slide-in label	With symbols
Control/indicator	
	Position 92
Version	Illuminated push buttons
Special features	Printed
Color	Green
Switching element	1NO
Slide-in label	

Miscellaneous

Product version number	V3.30.10
Slide-in label	2 pcs. without marking

Reliability values acc. to EN ISO 13849-1

Selector switch evaluation	
Category	4
Performance Level	PL e
PFH _D	4.1 x 10 ⁻⁸

Performance Level	PL e
Category	4
Safety Integrity Level	SIL 3 (EN 62061:2005)
Diagnostic Coverage (DC)	99
Mission time	20

[1] 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.

[2] X1 (The document PROFINET "Cabling and Interconnection Technology" from the PNO aids in the correct selection of wiring.)

[3] X2 (The document PROFINET "Cabling and Interconnection Technology" from the PNO aids in the correct selection of wiring.)

[4] X3 (The document PROFINET "Cabling and Interconnection Technology" from the PNO aids in the correct selection of wiring.)

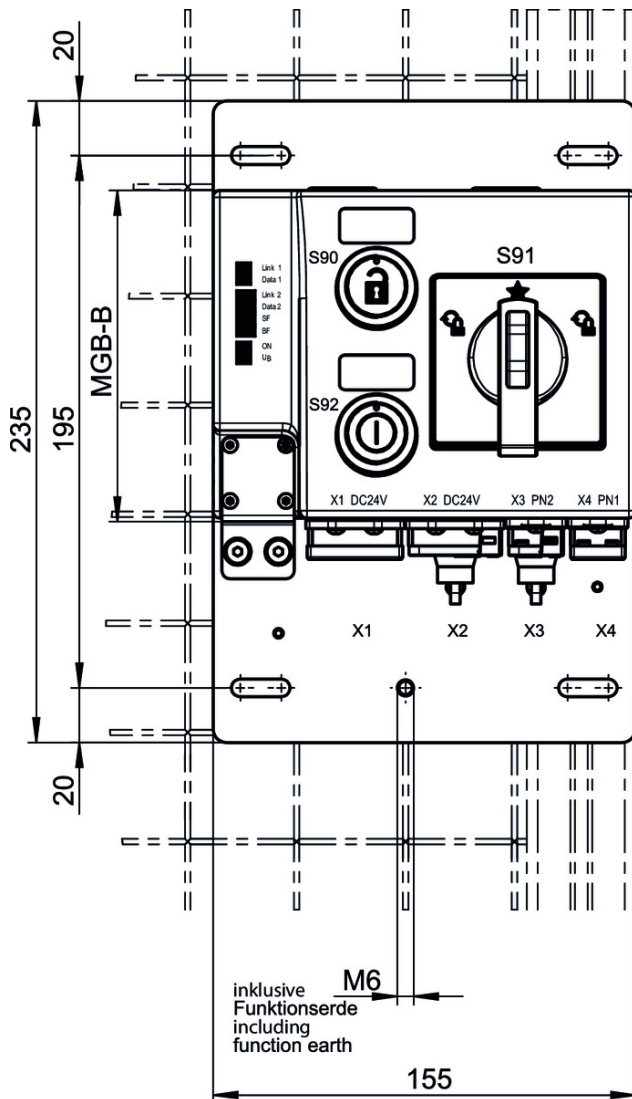
[5] X4 (The document PROFINET "Cabling and Interconnection Technology" from the PNO aids in the correct selection of wiring.)

[6] (Reverse polarity protected, regulated, residual ripple <5%, PELV)

[7] The auxiliary voltage is not required for the MGB system

[8, 9] For looping through for connected devices

Dimension drawing



Miscellaneous accessories

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 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

▼ Lens set, three colors



158307 AY-SET-LNS-SY04-158307

Instructions

▼ Betriebsanleitung Sicherheitssysteme MGB-B-...-PN (PROFINET) mit Datenstruktur Typ C (erweitert) ab V 3.30.1

	Doc. no.	Version	Language	Download
Betriebsanleitung Sicherheitssysteme MGB-B-...-PN (PROFINET) mit Datenstruktur Typ C (erweitert) ab V 3.30.1	124005	03-08/15		1.5 MB
Operating Instructions Safety Systems MGB-B-...-PN (PROFINET) and With Data Structure Type C (Expanded) from V 3.30.1	124005	03-08/15		1.5 MB

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

	Doc. no.	Version	Language	Download
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

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