

## ITEM 105287 MGB-B-A1W2A2-PN-105287

Description	Technical data	Accessories	Downloads
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### Features

- › 1 pushbuttons illuminated
- › Operating mode selector switch
- › 1 indicator
- › 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 <sup>[1]</sup>
Switching frequency	0,25 Hz
Connection	
	Push-pull power <sup>[2]</sup>
	Push-pull power <sup>[3]</sup>
According to IEC 61076-3-117 variant 14, screened, Profinet I/O cable, at least cat. 5e	Push-pull RJ45 <sup>[4]</sup>
According to IEC 61076-3-117 variant 14, screened, Profinet I/O cable, at least cat. 5e	Push-pull RJ45 <sup>[5]</sup>

## 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
	<b>Power supply X1</b>
Operating voltage DC	
L1	24 V DC -15% ... 10% <sup>[6]</sup>
Auxiliary voltage DC	
L2	24 V DC -15% ... +10% <sup>[7]</sup>
Fusing	

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

## 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	B2
Control/indicator	
	<b>Position 11</b>
Version	Cover for indicators
Special features	
Color	Red
Switching element	
Control/indicator	
	<b>Position 12</b>
Version	Illuminated push buttons
Special features	
Color	white
Switching element	1NO
Slide-in label	
Control/indicator	
	<b>Position 13</b>
Version	Operating mode selector switch
Special features	
Color	
Switching element	Code 2 of 3
Slide-in label	Entsichert / Unsecured ; Sonderfunktion / Special function ; Gesichert Zentral / Secured Central

## Miscellaneous

Product version number	V3.23.3
Slide-in label	
	Anlage Gesichert

	Quittieren
	Line Secured
	Line Reset

### Reliability values acc. to EN ISO 13849-1

	Selector switch evaluation
Category	4
Performance Level	PL e
PFH <sub>D</sub>	$4.1 \times 10^{-8}$

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.)

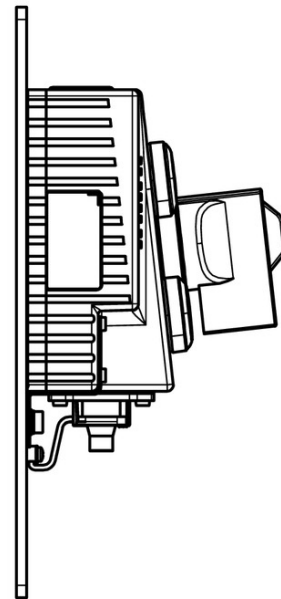
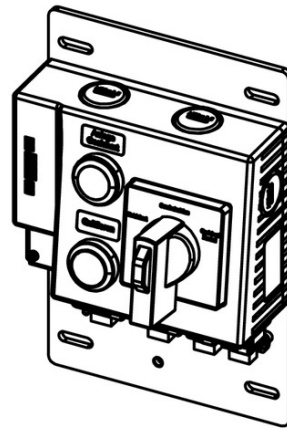
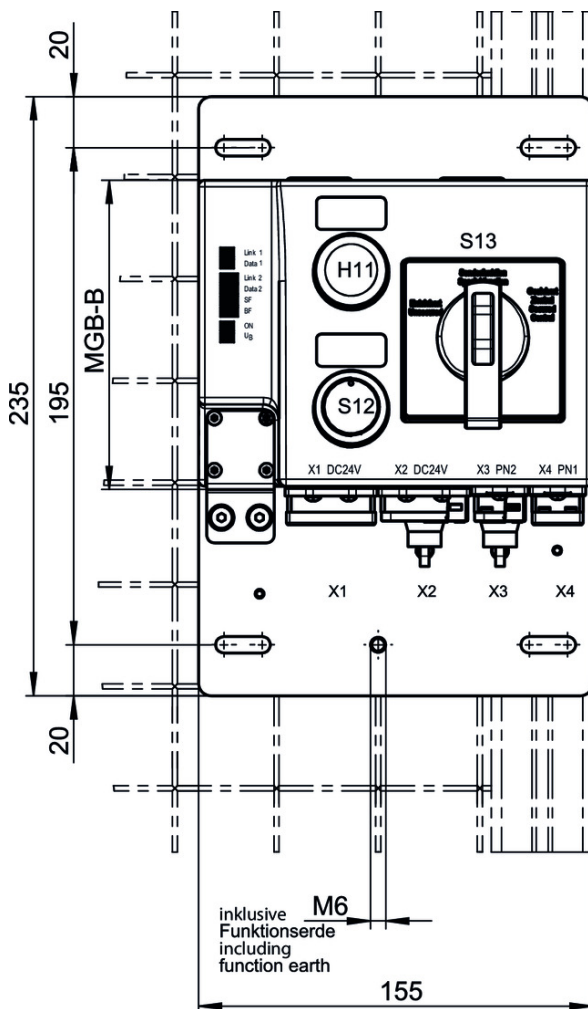
**[5]** X4 (The document PROFINET "Cabling and Interconnection Technology" from the PNO aids in the correct selection of wiring.)

**[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

## Enabling switch

▼ ZSM, + and - buttons, plug connector RC12



**113290** ZSM2300-113290

▼ Features

- › 3-stage function
- › + and - buttons
- › Plug connector
- › Straight connection cable, 13 m



**099716** ZSM2300-099716

▼ Features

- › 3-stage function
- › + and - buttons
- › Plug connector
- › Straight connection cable, 5 m

▼ ZSA, 3-stage with cable and plug connector RC12



**100873** ZSA100873C2038

▼ Features

- › Housing G1
- › 3-stage function
- › Straight connection cable with plug connector, 25 m
- › Direct connection to safety switch



**097567** ZSA097567C2038

▼ Features

- › Housing G1
- › 3-stage function
- › Straight connection cable with plug connector, 10 m
- › Direct connection to safety switch



**092141** ZSA092141C2038

▼ Features

- › Housing G1
- › 3-stage function

- › Straight connection cable with plug connector, 5 m
- › Direct connection to safety switch



**099495** ZSA099495C2038

▣ Features

- › Housing G1
- › 3-stage function
- › Straight connection cable with plug connector, 15 m
- › Direct connection to safety switch

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- ▣ ZSB, housing G1, 3-stage, +/- pushbuttons, cable with plug connector RC12



**077040** ZSB077040

▣ Features

- › Housing G1
- › 3-stage function
- › Straight connection cable, 5 m
- › Plug connector
- › 2 buttons

- 
- ▣ ZSB, housing G3, 3-stage, +/- pushbuttons illuminated, cable with plug connector RC12



**085058** ZSB085058

▣ Features

- › 3-stage function
- › Housing G3
- › Straight connection cable, 12 m
- › Plug connector
- › Two illuminated buttons
- › Including holder

- 
- ▣ ZSB, housing G3, 3-stage, +/- pushbuttons, cable with plug connector RC12



**077029** ZSB077029





▣ Features


- › 3-stage function
- › Housing G3
- › Straight connection cable, 5 m
- › Plug connector
- › Two illuminated buttons
- › Including holder




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## Instructions

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







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
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

### CAD data

CAD data for this item on TraceParts