

**ITEM 128323 MGB-L1B-EIA-R-128323**

Description	Technical data	Accessories	Downloads
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**Features**

- › Guard locking with guard lock monitoring
- › Emergency stop according to ISO 13850, illuminated
- › 3 illuminated pushbuttons
- › Including adhesive labels
- › Connection via M12 plug
- › Pre-assembled on mounting plates
- › Unicode

**Approvals**



**Mechanical values and environment**

Housing material	Reinforced plastic, die-cast zinc nickel-plated, stainless steel
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Weight		
	Net	3,1 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
Mechanical life		
		$1 \times 10^6$
In case of use as door stop, and 1 Joule impact energy		$0,1 \times 10^6$
Installation position		Door hinge DIN right
Reaction time		
	Door position	Switch-off timemax.250 ms <b>[1]</b>
	Bolt position	Switch-off timemax.250 ms <b>[2]</b>
	Guard locking	Switch-off timemax.250 ms <b>[3]</b>
Switching frequency		0,25 Hz
Connection		
		M12 Power, A-coded <b>[4]</b>
		M12 Power, A-coded <b>[5]</b>
	Ethernet/IP cable, Cat. 5e min.	M12 D-coded, screened <b>[6]</b>
	Ethernet/IP cable, Cat. 5e min.	M12 D-coded, screened <b>[7]</b>
Guard locking principle		Closed-circuit current principle
Locking force $F_{Zh}$		2000 N

### 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	Ethernet/IP cable, Cat. 5e min.
Safety class		III
Transponder coding		Unicode
Operating voltage DC		<b>Power supply X1</b>
	L1	24 V DC -15% ... 10% <b>[8]</b>
Auxiliary voltage DC		
	L2	24 V DC -15% ... +10% <b>[9]</b>
Fusing		
	external	Slow blowmin.1 A
		<b>Power supply X2</b>

Operating voltage DC	L1	24 V DC -15% ... 10% <sup>[10]</sup>
Auxiliary voltage DC	L2	24 V DC -15% ... +10% <sup>[11]</sup>

## Interface, bus

Data interface	Ethernet	
Data protocol	Bus protocol	Ethernet/IP
	Safety protocol	CIP Safety

## Operating distance

Assured switch-off distance $S_{ar}$		
	Door position	max.65 mm

## Controls and indicators

Assignment diagram	B1
Assignment diagram	L1
Control/indicator	
	<b>Position 1</b>
Version	Emergency stop illuminated
Special features	With adhesive ring
Color	
Switching element	2 pos. driven NC
Slide-in label	
Control/indicator	
	<b>Position 90</b>
Version	Illuminated push buttons
Special features	
Color	
Switching element	1NO
Slide-in label	
Control/indicator	
	<b>Position 91</b>
Version	Illuminated push buttons
Special features	
Color	
Switching element	1NO
Slide-in label	
Control/indicator	
	<b>Position 92</b>

Version	Illuminated push buttons
Special features	
Color	
Switching element	1NO
Slide-in label	

### Miscellaneous

Additional feature	
	Incl. cover set ID. No. 120344
	Incl. cover set ID. No. 120377
Product version number	V1.2

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

	<b>Monitoring of guard locking and the safety guard position</b>
Category	4
Performance Level	PL e
PFH <sub>D</sub>	$3.37 \times 10^{-9}$ [12]
Diagnostic Coverage (DC)	99
	<b>Control of the guard locking</b>
Category	4
Performance Level	PL e
PFH <sub>D</sub>	$4.91 \times 10^{-9}$ [13]
	<b>Emergency stop</b>
B10 <sub>D</sub>	
Emergency stop	$0.1 \times 10^6$
	<b>Emergency-stop evaluation</b>
Category	4
Performance Level	PL e
PFH <sub>D</sub>	$3.05 \times 10^{-9}$ [14]
<hr/>	
Safety Integrity Level	SIL 3 (EN 62061:2005)
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

[5] X2

[6] X3

[7] X4

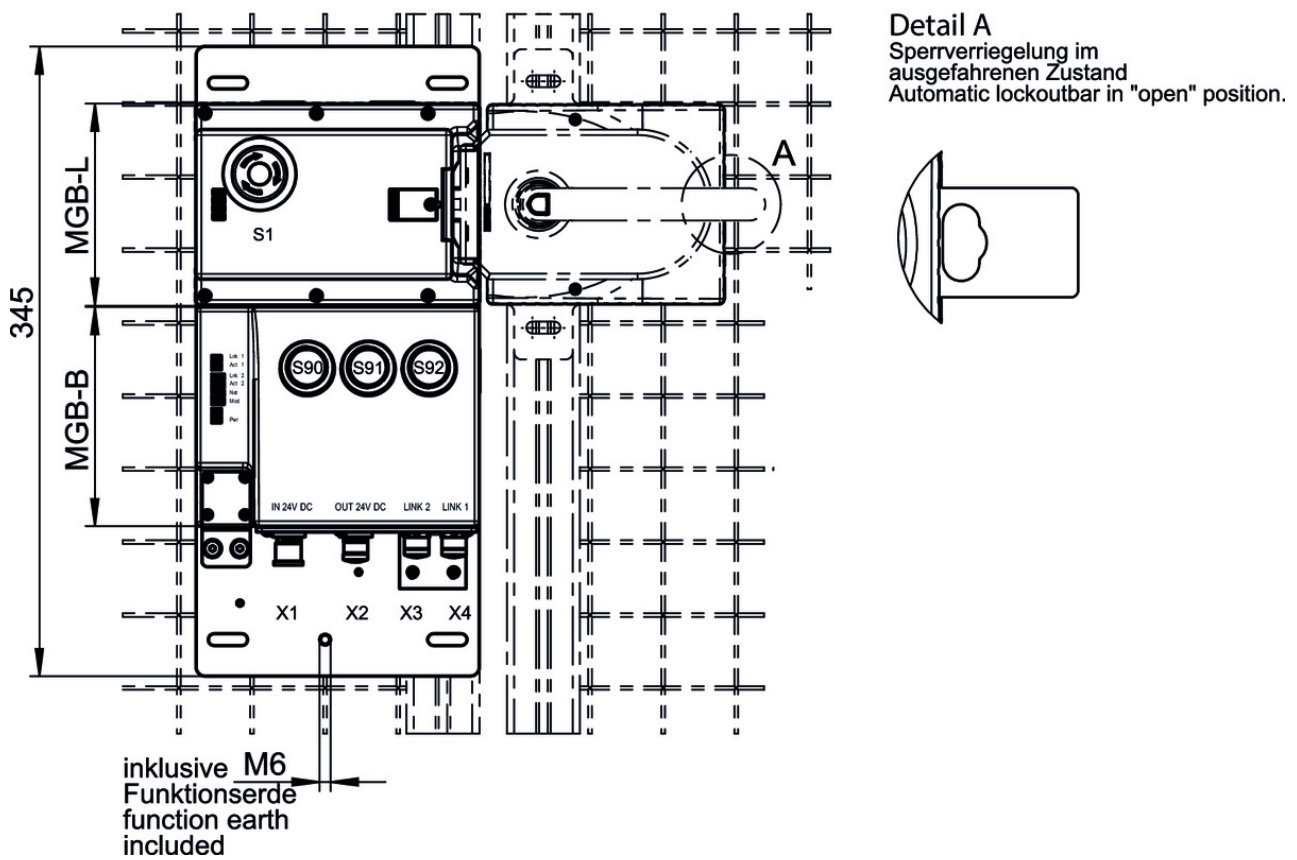
[8] (Reverse polarity protected, regulated, residual ripple <5%, PELV)

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

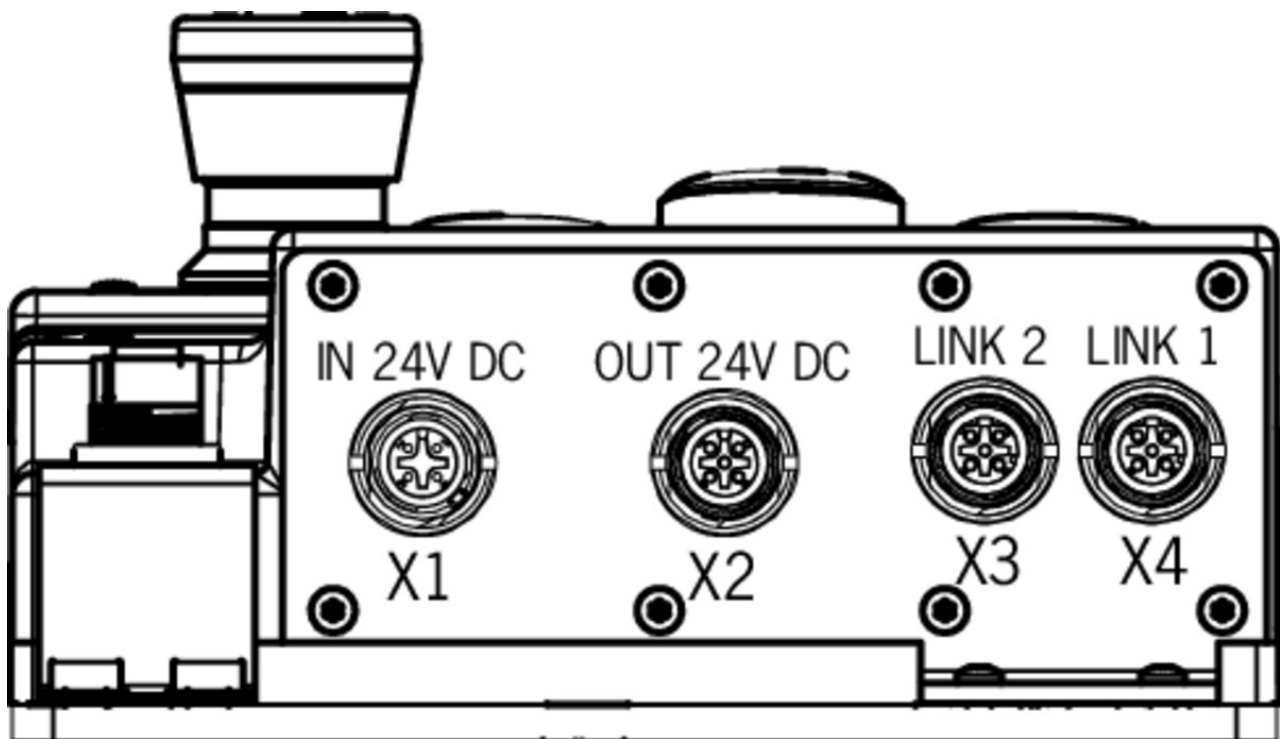
[10, 11] For looping through for connected devices

[12, 13, 14] Fixed failure rate without consideration of faults in wearing parts.

## Dimension drawing



## Wiring diagram



## 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



**126158** AY-SET-LNS-SY03-126158



**125359** AY-SET-LNS-SY02-125359

### ✓ 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

## Function expansion

▼ Emergency unlocking for safety system MGB



**112989** MGB-A-EMERGENCYRELEASE-112989

▼ Features

- › Quick emergency unlocking
- › sealable

## Instructions

▼ Betriebsanleitung Sicherheitssysteme MGB-L..B-EI-... (Ethernet/IP) mit Datenstruktur Typ A





	Doc. no.	Version	Language	Download
Betriebsanleitung Sicherheitssysteme MGB-L..B-EI-... (Ethernet/IP) mit Datenstruktur Typ A	2126330	07-08/17		2.8 MB
Manual de instrucciones Sistemas de seguridad MGB-L..B-EI-... (Ethernet/IP) y con estructura de datos de tipo A	2126330	07-08/17		2.8 MB
Instrucțiuni de utilizare Sisteme de siguranță MGB-L..B-EI-... (Ethernet/IP) și cu structură de date tip A	2126330	07-08/17		3.0 MB
Operating Instructions Safety Systems MGB-L..B-EI-... (Ethernet/IP) With Data Structure Type A	2126330	07-08/17		2.8 MB

▼ Informații privind siguranța și întreținerea MGB-L.B-EI-... (Ethernet/IP)





	Doc. no.	Version	Language	Download
Sicherheitsinformation und Wartung Sicherheitssystem MGB-L.B-EI-... (Ethernet/IP) Safety Information and Maintenance Safety System MGB-L.B-EI-... (Ethernet/IP) Información de seguridad y mantenimiento Sistema de seguridad MGB-L.B-EI-... (Ethernet/IP)	126331	01-01/16	  	0.3 MB
Informații privind siguranța și întreținerea MGB-L.B-EI-... (Ethernet/IP)	126331	01-01/16		0.2 MB

## Application example





### ▼ AOI für MGB-L1B-EI... an Allen Bradley ControlLogix

	Doc. no.	Version	Language	Download
AOI für MGB-L1B-EI... an Allen Bradley ControlLogix	AP000224	01-07/16		 0.8 MB
AOI for MGB-L1B-EI... on Allen Bradley ControlLogix	AP000224	01-07/16		 0.9 MB

### ▼ Anschluss MGB-L1B-EI... an Allen Bradley ControlLogix







	Doc. no.	Version	Language	Download
Anschluss MGB-L1B-EI... an Allen Bradley ControlLogix	AP000223	03-08/16		 0.7 MB
Connection of MGB-L1B-EI... to Allen Bradley ControlLogix	AP000223	03-08/16		 0.7 MB

### ▼ MGB-L1B-EI... an Allen Bradley ControlLogix mit Gateway im Netz

	Doc. no.	Version	Language	Download
MGB-L1B-EI... an Allen Bradley ControlLogix mit Gateway im Netz	AP000228	01-05/17		 0.6 MB
MGB-L1B-EI... on Allen Bradley ControlLogix with Gateway in Network	AP000228	01-05/17		 0.6 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