

ITEM 136388 MGB-L1B-EIA-R-136388

Description	Technical data	Accessories	Downloads
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Features

- › Guard locking with guard lock monitoring
- › Emergency stop according to ISO 13850, illuminated
- › 4 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	
	1×10^6
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	
Emergency stop / machine stop	Switch-off timemax.100 ms [1]
Door position	Switch-off timemax.250 ms [2]
Bolt position	Switch-off timemax.250 ms [3]
Guard locking	Switch-off timemax.250 ms [4]
Switching frequency	0,25 Hz
Connection	
	M12 Power, A-coded [5]
	M12 Power, A-coded [6]
Ethernet/IP cable, Cat. 5e min.	M12 D-coded, screened [7]
Ethernet/IP cable, Cat. 5e min.	M12 D-coded, screened [8]
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
	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]
	L2	24 V DC -15% ... +10% [12]
Auxiliary voltage DC		

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

	Position 93
Version	Illuminated push buttons
Special features	
Color	
Switching element	1NO
Slide-in label	
Control/indicator	
	Position 95
Version	Illuminated push buttons
Special features	
Color	
Switching element	1NO
Slide-in label	

Miscellaneous

Additional feature	Incl. cover set ID. No. 120344
Product version number	V1.2
Slide-in label	4 pcs. without marking

Reliability values acc. to EN ISO 13849-1

	Monitoring of guard locking and the safety guard position
Category	4
Performance Level	PL e
PFH _D	3.37 x 10 ⁻⁹ [13]
Diagnostic Coverage (DC)	99
	Control of the guard locking
Category	4
Performance Level	PL e
PFH _D	4.91 x 10 ⁻⁹ [14]
	Emergency stop
B10 _D	0.1 x 10 ⁶
Emergency stop	
	Emergency-stop evaluation
Category	4
Performance Level	PL e
PFH _D	3.05 x 10 ⁻⁹ [15]

Safety Integrity Level	SIL 3 (EN 62061:2005)
Mission time	20

[1, 2, 3, 4] 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.

[5] X1

[6] X2

[7] X3

[8] X4

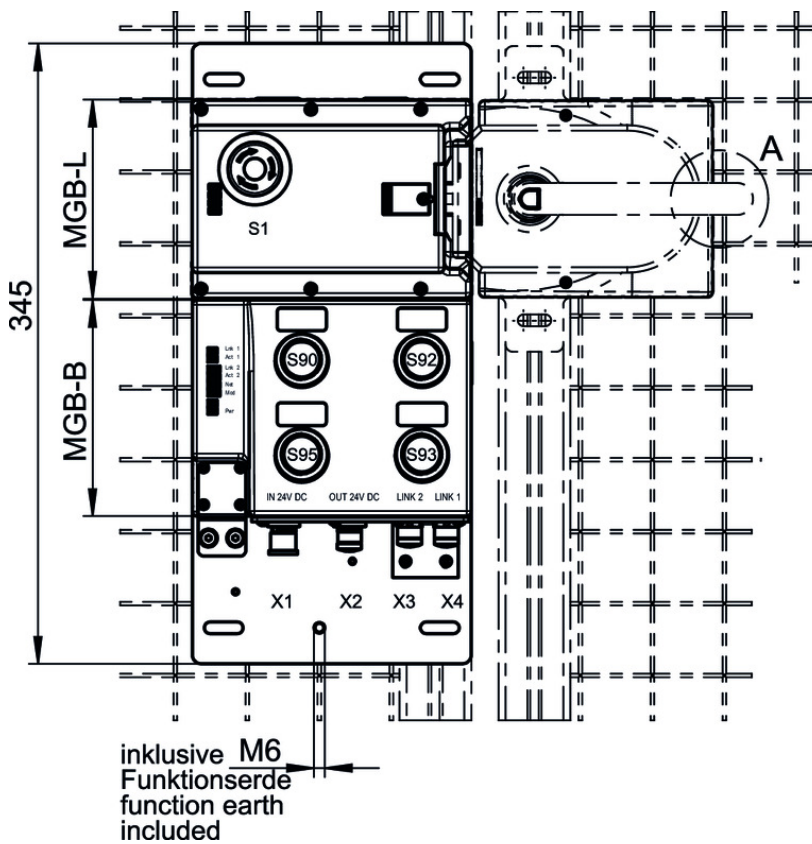
[9] (Reverse polarity protected, regulated, residual ripple <5%, PELV)

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

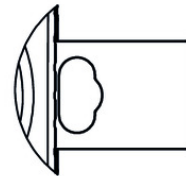
[11, 12] For looping through for connected devices

[13, 14, 15] Fixed failure rate without consideration of faults in wearing parts.

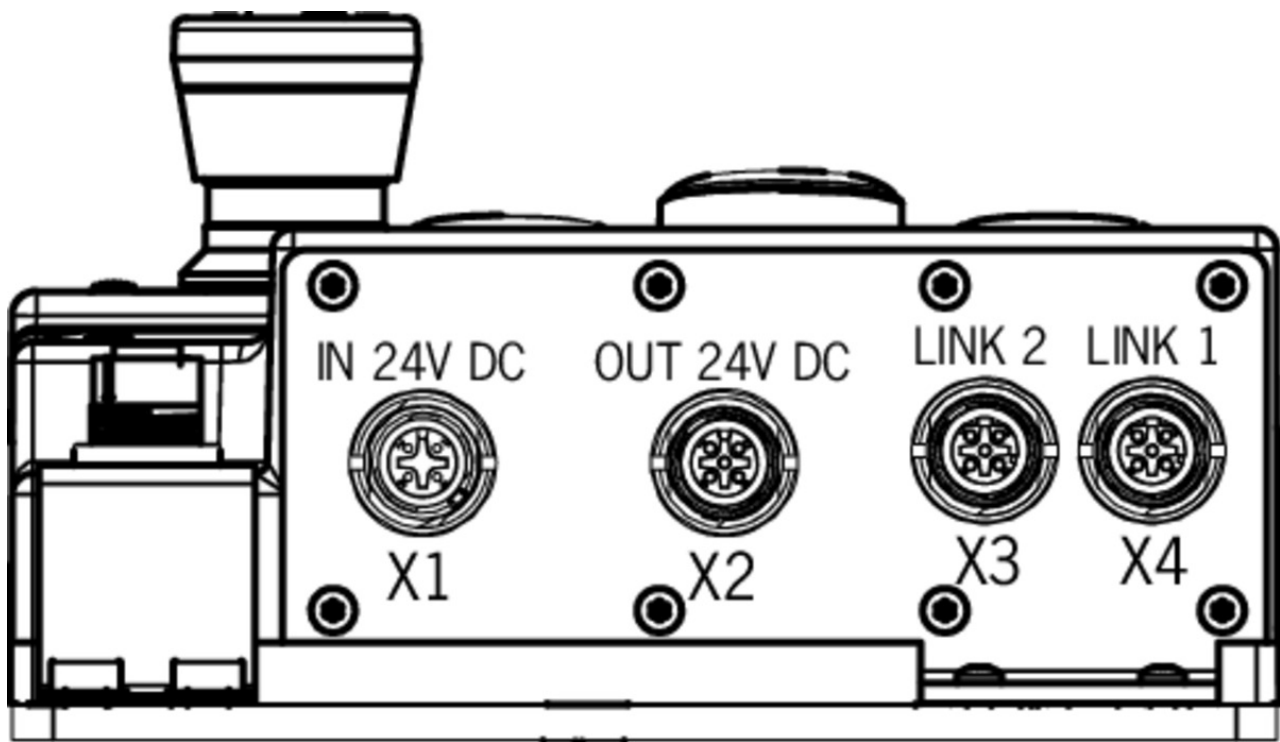
Dimension drawing



Detail A
Sperrverriegelung im
ausgefahrenen Zustand
Automatic lockoutbar in "open" position.



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



125359 AY-SET-LNS-SY02-125359



126158 AY-SET-LNS-SY03-126158

✓ 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