

MGB-L1B-EIA-L-128326 (Order no. 128326)

Locking module MGB-L1...-EI (guard locking by spring force) with 3 pushbuttons, emergency stop

- ▶ 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



Technical data

Approvals



Workspace

Rated operating distances S_n	20 mm (Only applies for use on sliding doors with deactivated guard lock monitoring)
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Operating and display elements

Occupancy diagram

L1

B1

Item	Color	Extras	Version	Switching element	Note slide-in label	Slide-in label	Number	Designation1	LED
1		with adhesive ring	Emergency stop illuminated	2 PD					
90			Illuminated pushbutton	1NO					
91			Illuminated pushbutton	1NO					
92			Illuminated pushbutton	1NO					

Electrical connection values

Connecting cable	
	Ethernet Ethernet/IP cable, at least cat. 5e
Rated insulation voltage U_i	75 V
Rated impulse withstand voltage U_{imp}	0.5 kV
EMC protection requirements	In accordance with EN 61000-4 and EN 61326-3-1

maximum feed-in current in the connection block	
	X1, X2 max. 4000 mA
Safety class	III
Current consumption	max. 500 mA
Transponder coding	Unicode
Degree of contamination (external, according to EN 60947-1)	3

Power supply X1

Fuse	
	external min. 1 A slow blow

Operating voltage DC

- L1 24 V DC -15% ... +10%
((reverse polarity protected, regulated, residual ripple<5%, PELV))

Auxiliary voltage DC

- L2 24 V DC -15% ... +10%
(The auxiliary voltage is not required for the MGB system)

Power supply X2

Operating voltage DC

- L1 24 V DC -15% ... +10%
(For looping through for connected devices)

Auxiliary voltage DC

- L2 24 V DC -15% ... +10%
(For looping through for connected devices)

Mechanical values and environment

Connection type	
Ethernet/IP cable, at least cat. 5e	M12, D-coded, screened (X4) M12 Power, A-coded (X1)
Ethernet/IP cable, at least cat. 5e	M12, D-coded, screened (X3) M12 Power, A-coded (X2)

Installation orientation	Door hinge DIN left
Switching frequency	0.25 Hz
Mechanical life	1 x 10 ⁶
in case of use as door stop, and 1 Joule impact energy	0.1 x 10 ⁶
Response time	
Bolt position	max. 250 ms Turn-off time (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.)
Guard locking	max. 250 ms Turn-off time (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.)
Emergency stop / machine stop	max. 100 ms Turn-off time (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.)
Door position	max. 250 ms Turn-off time (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.)
Shock and vibration resistance	Acc. to EN IEC 60947-5-3
Degree of protection	IP54
Ambient temperature	
with U _B = 24 V DC	-20 ... +55 °C
Material	
Housing	Fiber glass reinforced plastic, nickel-plated die-cast zinc, stainless steel
Locking force F _{Zh}	2000 N
Guard locking principle	Closed-circuit current principle

Characteristic values according to EN ISO 13849-1 and EN IEC 62061

Mission time	20 y
Safety Integrity Level	SIL 3 (EN 62061:2005)
Control of guard locking	
Category	4

Performance Level	PL e
PFH _D	4.91 x 10 ⁻⁹ (Fixed failure rate without consideration of faults in wearing parts.)
Emergency stop	
B _{10D}	
Emergency stop	0.13 x 10 ⁶
Emergency-stop evaluation	
Category	4
Performance Level	PL e
PFH _D	3.05 x 10 ⁻⁹ (Fixed failure rate without consideration of faults in wearing parts.)
Monitoring of guard locking and the guard position	
Diagnostic Coverage (DC)	99 %
Category	4
Performance Level	PL e
PFH _D	3.37 x 10 ⁻⁹ (Fixed failure rate without consideration of faults in wearing parts.)

Miscellaneous

Product version number	V1.5
Additional feature	
	incl. lens set, ID no. 120377
	incl. lens set, ID no. 120344

Interface

Bus data protocol	Ethernet/IP
Safety data protocol	CIP Safety
Date interface	
	Ethernet