

MGB-L1B-EIA-R-128323 (Order no. 128323)

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)
---------------------------------	---

Operating and display elements

Occupancy diagram

B1

L1

Item	Color	Extras	Slide-in label	Note slide-in label	Version	Switching element	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)
Ethernet/IP cable, at least cat. 5e	M12, D-coded, screened (X3)
	M12 Power, A-coded (X2)
	M12 Power, A-coded (X1)

Installation orientation	Door hinge DIN right
Switching frequency	0.25 Hz
Mechanical life	
in case of use as door stop, and 1 Joule impact energy	0.1 x 10 ⁶ 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.)
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 10⁶

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. 120344

incl. lens set, ID no. 120377

Interface

Bus data protocol Ethernet/IP

Safety data protocol CIP Safety

Date interface

Ethernet