

Technical data

Approvals



Workspace

Secured switch-off distance s_{ar}	
Only with sliding door	20 mm
(Only applies for use on sliding doors with deactivated guard lock monitoring)	

Operating and display elements

Occupancy diagram

L1

B1

Item	Color	Extras	Note slide-in label	Version	Switching element	Slide-in label	Number	Designation1	LED
1				Emergency stop	2 PD				
2	white	printed		Illuminated pushbutton	1NO				
3	red			Illuminated pushbutton	1NO				
4	green	printed		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 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	
	M12 Power, A-coded (X2)
	M12 Power, A-coded (X1)
Ethernet/IP cable, at least cat. 5e	M12, D-coded, screened (X3)
Ethernet/IP cable, at least cat. 5e	M12, D-coded, screened (X4)

Installation orientation	Door hinge DIN left
Switching frequency	0.25 Hz
Storage temperature	-25 ... 70 °C
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	
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.)
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.)
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.)
Shock and vibration resistance	Acc. to EN IEC 60947-5-3
Degree of protection	IP54
Ambient temperature	
at 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

	PL	Maximum SIL	PFH _D	Category	Mission time
Control of guard locking	PL e	3	4.91x10 ⁻⁹	4	20 y