

## Technical data

### Approvals



### Operating and display elements

Occupancy diagram

L1

Item	Color	Extras	Note slide-in label	Version	Switching element	Slide-in label	Number	Designation1	LED
1		with monitoring contact		Emergency stop	2 PD + 1 NO				
2				Illuminated pushbutton	1NO				
3				Illuminated pushbutton	1NO				
4				Illuminated pushbutton	1NO				

### Electrical connection values

Connection cross section

(rigid/flexible) with cable end sleeve  
with collar according to DIN 46 228/1

0.25 ... 0.75 mm<sup>2</sup>

(rigid/flexible)  
((AWG 24 ... AWG 16))

0.13 ... 1.5 mm<sup>2</sup>

(rigid/flexible) with cable end sleeve  
according to DIN 46 228/1

0.25 ... 1.5 mm<sup>2</sup>

Rated insulation voltage  $U_i$  30 V

Rated impulse voltage  $U_{imp}$  1.5 kV

Discrepancy time

between FO1A and FO1B max. 10 ms

Utilization category

DC-13

	24V 200mA (Caution: outputs must be protected with a free-wheeling diode in case of inductive loads.)
Risk time according to EN 60947-5-3	max. 350 ms
Safety class	III
Transponder coding	Unicode
Degree of contamination (external, according to EN 60947-1)	3
<b>Controls and indicators</b>	
Breaking capacity	max. 0.25 W
Switching voltage	$U_A$ V
Switching current	1 ... 10 mA
LED power supply	24 V DC
<b>Emergency stop</b>	
Breaking capacity	max. 0.25 W
Switching voltage	5 ... 24 V
Switching current	1 ... 100 mA
LED power supply	24 V DC
<b>Monitoring outputs OD, OT, OL, OI</b>	
Output type	Semiconductor outputs, p-switching, short circuit-proof
Output voltage	$U_A-2V \dots U_A$ V DC (Value at a switching current of 50mA without taking into account the cable lengths)
Output current	max. 50 mA
<b>Safety outputs FO1A, FO1B</b>	
Output type	Semiconductor outputs, p-switching, short circuit-proof
Output voltage	$U_{FO1A} / U_{FO1B}$ HIGH $U_B-2V \dots U_B$ V DC (Value at a switching current of 50mA without taking into account the cable lengths)
	$U_{FO1A} / U_{FO1B}$ LOW 0 ... 1 V DC
Output current	per safety output FO1A / FO1B 1 ... 200 mA
Test pulse duration	max. 0.3 ms

Test pulse interval	min. 100 ms
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### Power supply U<sub>A</sub>

Operating voltage DC	
	U <sub>A</sub> 24 V DC -15% ... +10% (reverse polarity protected, regulated, residual ripple<5%, PELV)

Current consumption	
	I <sub>UA</sub> max. 10 mA (with no load on outputs OD, OT, OL, OI)

### Power supply U<sub>B</sub>

Operating voltage DC	
	U <sub>B</sub> 24 V DC -15% ... +10% (reverse polarity protected, regulated, residual ripple<5%, PELV)

Current consumption	
	I <sub>UB</sub> max. 80 mA (no load on outputs)

## Mechanical values and environment

Connection type	Cable entries M20x1.5
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Installation orientation	Door hinge DIN right
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Switching frequency	0.25 Hz
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Storage temperature	-25 ... 70 °C
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Mechanical life	
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in case of use as door stop, and 1 Joule impact energy	0.1 x 10 <sup>6</sup>
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	1 x 10 <sup>6</sup>
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Degree of protection	IP65
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Ambient temperature	
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	at U <sub>B</sub> = 24 V DC	-20 ... 55 °C
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Material	
Housing	Fiber glass reinforced plastic; nickel-plated die-cast zinc; stainless steel

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

	PL	Maximum SIL	PFH <sub>D</sub>	Category	Mission time
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