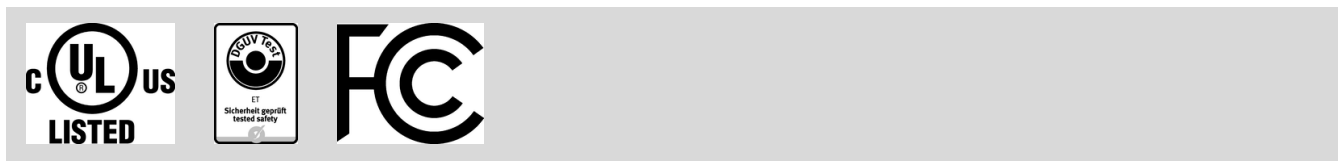


Technical data

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	blue	printed and not connected electrically		Illuminated pushbutton	1NO				
3	green			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 mm²

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

0.13 ... 1.5 mm²

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

0.25 ... 1.5 mm²

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
Risk time according to EN 60947-5-3, extension for each additional device	max. 5 ms
Safety class	III
Transponder coding	Unicode
Degree of contamination (external, according to EN 60947-1)	3
Solenoid control input IMP1, IMP2, IMM	
Test pulse duration	max. 5 ms
Test pulse interval	min. 100 ms
Controls and indicators	
Breaking capacity	max. 0.25 W
Switching voltage	U_A V
Switching current	1 ... 10 mA
LED power supply	24 V DC
Emergency stop	
Breaking capacity	max. 0.25 W
Switching voltage	5 ... 24 V
Switching current	1 ... 100 mA
LED power supply	24 V DC
Monitoring outputs OD, OT, OL, OI	
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
Safety outputs F01A, F01B	
Output type	Semiconductor outputs, p-switching, short circuit-proof
Output voltage	U_{F01A} / U_{F01B} LOW 0 ... 1 V DC U_{F01A} / U_{F01B} HIGH $U_B - 2V \dots U_B$ V DC (Value at a switching current of 50mA without taking into account the cable lengths)

Output current	
per safety output FO1A / FO1B	1 ... 200 mA
Test pulse duration	max. 1 ms
Test pulse interval	min. 100 ms

Power supply U_A

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

Current consumption	
I_{UA}	max. 375 mA ((with energized guard locking solenoid and unloaded outputs OD, OT, OL, OI, +20 °C, 24V))

Power supply U_B

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

Current consumption	
I_{UB}	max. 80 mA ((no load on outputs))

Mechanical values and environment

Connection type	Cable entries M20x1.5
Installation orientation	Door hinge DIN right
Switching frequency	0.25 Hz
Storage temperature	-25 ... 70 °C
Mechanical life	
	1 x 10 ⁶
in case of use as door stop, and 1 Joule impact energy	0.1 x 10 ⁶
Degree of protection	IP65
Ambient temperature	
at $U_B = 24$ V DC	-20 ... 55 °C