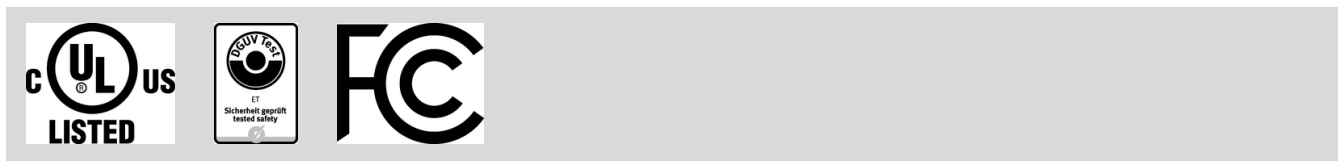


Technical data

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				

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
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 FO1A, FO1B	
Output type	Semiconductor outputs, p-switching, short circuit-proof
Output voltage	
U_{FO1A} / U_{FO1B} LOW	0 ... 1 V DC
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)
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. 10 mA
((with no load on outputs OD, OT, OL, OI))

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

1×10^6

in case of use as door stop, and 1 Joule
impact energy 0.1×10^6

Degree of protection IP65

Ambient temperature

at $U_B = 24$ V DC -20 ... 55 °C

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_D	Category	Mission time
Monitoring of the guard position	PL e	–	3.7×10^{-9}	4	20 y