Electrical connection values

Connection cross section	
(rigid/flexible) with cable end sleeve according to DIN 46 228/1	0.25 … 1.5 mm²
(rigid/flexible)	0.13 … 1.5 mm² ((AWG 24 … AWG 16))
(rigid/flexible) with cable end sleeve with collar according to DIN 46 228/1	0.25 … 0.75 mm²
Rated insulation voltage U_i	30 V
Rated impulse withstand 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
	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	UA-2V ... UA 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} HIGH	UB-2V ... UB 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
	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
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
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

Mission time	20 y
	Emergency stop
B_{10D}	
Emergency stop	0.13 x 10^6
	Monitoring of the guard position
Category	4
Performance Level	PL e
PFH_D	3.7 x 10^{-9}

Miscellaneous

Product version number	V4.0.0
Additional feature	incl. lens set, ID no. 120344