



Display/Operation

Power indicator	no
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Electrical connection

Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	no
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	1 µF
No-load current I ₀ max., damped	11 mA
No-load current I ₀ max., undamped	7 mA
Operating voltage U _B	10...30 VDC
Output resistance R _a	100.0 kOhm
Protection class	II
Rated insulation voltage U _i	250 V AC
Rated operating current I _e	200 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	40 ms
Residual current I _r max.	10 µA
Ripple max. (% of U _e)	10 %
Switching frequency	1200 Hz
Voltage drop static max.	1.5 V

Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
IP rating	IP68

Functional safety

MTTF (40 °C)	584 a
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Interface

Switching output	NPN normally open (NO)
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Material

Housing material	Brass, Nickel-free coated
Material sensing surface	PBT

Mechanical data

Dimension	Ø 8 x 63 mm
Installation	for flush mounting
Size	M8x1

Range/Distance

Assured operating distance S _a	2.4 mm
Hysteresis H max. (% of S _r)	15.0 %
Rated operating distance S _n	3 mm
Real switching distance s _r	3 mm
Repeat accuracy max. (% of S _r)	5.0 %
Switching distance marking	■■■
Temperature drift max. (% of S _r)	10 %
Tolerance S _r	±10 %

Connector Drawings



Wiring Diagrams

