



## Display/Operation

Power indicator	no
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## Electrical connection

Cable diameter D	3.10 mm
Cable length L	3 m
Conductor cross-section	0.14 mm <sup>2</sup>
Connection type	Cable, 3.00 m, PUR
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

## Electrical data

Load capacitance max. at U <sub>e</sub>	1 µF
Min. operating current I <sub>m</sub>	0 mA
No-load current I <sub>o</sub> max., damped	25 mA
No-load current I <sub>o</sub> max., undamped	12 mA
Operating voltage U <sub>b</sub>	10...30 VDC
Output resistance R <sub>a</sub>	1.9 kOhm + D + LED
Rated insulation voltage U <sub>i</sub>	75 V DC
Rated operating current I <sub>e</sub>	200 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Rated short circuit current	100 A
Ready delay t <sub>v</sub> max.	30 ms
Residual current I <sub>r</sub> max.	80 µA
Ripple max. (% of U <sub>e</sub> )	15 %
Switching frequency	1500 Hz
Voltage drop static max.	2.5 V

## Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
IP rating	IP67

## Functional safety

MTTF (40 °C)	860 a
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## Interface

Switching output	PNP normally open (NO)
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## Material

Housing material	Stainless steel
Material jacket	PUR
Material sensing surface	PBT

## Mechanical data

Dimension	Ø 8 x 30 mm
Installation	for flush mounting
Size	M8x1

## Range/Distance

Assured operating distance S <sub>a</sub>	1.2 mm
Hysteresis H max. (% of S <sub>r</sub> )	15.0 %
Rated operating distance S <sub>n</sub>	1.5 mm
Real switching distance s <sub>r</sub>	1.5 mm
Repeat accuracy max. (% of S <sub>r</sub> )	5.0 %
Temperature drift max. (% of S <sub>r</sub> )	10 %
Tolerance S <sub>r</sub>	±10 %

## Wiring Diagrams

