

1) Sensing surface 2) Housing 3) Cover 4) Potentiometer 5) LED function indicator



### Electrical connection

Connection	M12x1-Male, 4-pole, A-coded
Protection against device mix-ups	yes
Short-circuit protection	yes

### Electrical data

Hysteresis H max. (% of Sr)	15.0 %
Operating voltage $U_b$	12...35 VDC
Polarity reversal protected	yes
Rated insulation voltage $U_i$	75 V DC
Rated operating current $I_e$	200 mA
Repeat accuracy max. (% of Sr)	2.0 %
Ripple max. (% of $U_e$ )	10 %
Switching frequency	100 Hz
Utilization category	DC-13
Voltage drop static max.	1.5 V

### Environmental conditions

Ambient temperature	-30...70 °C
IP rating per IEC 60529	IP65

### Functional safety

MTTF (40 °C)	584 a
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### General data

Approval/Conformity	CE cULus
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Basic standard  
 Scope of delivery  
 Sensitivity

IEC 60947-5-2  
 Nut (2x)  
 Switching distance adjustable

### Material

Cover material	PA
Cover material	PA
Housing material	Stainless steel (1.4301)
Material sensing surface	PTFE

### Mechanical data

Installation	for flush mounting
Size	M12x1
Tightening torque	40 Nm

### Output/Interface

Switching output	PNP Normally closed (NC)
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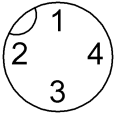
### Range/Distance

Measuring range	1...4 mm
Rated operating distance $S_n$	4 mm
Temperature drift max. (% of Sr)	20 %

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

## Connector view



## Wiring Diagram

