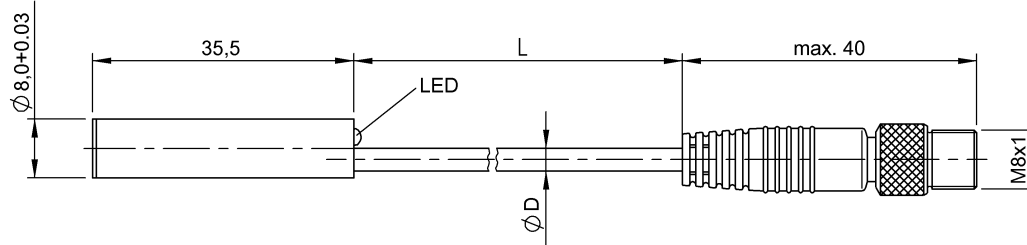


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## Display/Operation

Function indicator	yes
Power indicator	no

## Electrical connection

Cable diameter D	3.10 mm
Cable length	0.32 m
Connection	M8x1-Connector, 3-pole
Connection type	Cable with connector, 0.32 m, PUR
Polarity reversal protected	yes
Short-circuit protection	yes

## Electrical data

Hysteresis H max. (% of Sr)	15.0 %
Load capacitance max. at Ue	1 $\mu$ F
MTTF (40 °C)	860 a
No-load current I <sub>0</sub> max., undamped	12 mA
Operating voltage U <sub>b</sub>	10...30 VDC
Output resistance R <sub>a</sub>	2.2 kOhm + D + LED
Pollution degree	3
Protected against miswiring	yes
Rated insulation voltage U <sub>i</sub>	75 V DC
Rated operating current I <sub>e</sub> DC	130 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Rated short circuit current	100 A
Ready delay t <sub>v</sub> max.	10 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current I <sub>r</sub> max.	80 $\mu$ A
Switching frequency	800 Hz
Utilization category	DC -13
Voltage drop static max.	3.5 V

## Environmental conditions

Ambient temperature	-25...70 °C
Protection type IEC 60529	IP67

## Functional safety

Diagnostic coverage	0 %
Functional safety	no
Mission Time	20 a

## General data

Approval/Conformity	CE EAC
Basic standard	IEC 60947-5-2

## Material

Housing material	Stainless steel
Material jacket	PUR
Material sensing surface	PBT

## Mechanical data

Dimension	$\varnothing$ 8 x 35.5 mm
Installation	for flush mounting
Size	D8.0

## Output/Interface

Switching output	PNP Normally open (NO)
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## Range/Distance

Assured operating distance S <sub>a</sub>	1.6 mm
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Range	2 mm
Rated operating distance $S_n$	2 mm
Ripple max. (% of $U_e$ )	10 %
Switching distance marking	■■
Temperature drift max. (% of $S_r$ )	10 %

### Remarks

Shielded: See installation instructions for inductive sensors with extended range 825357.

The sensor is functional again after the overload has been eliminated.

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

