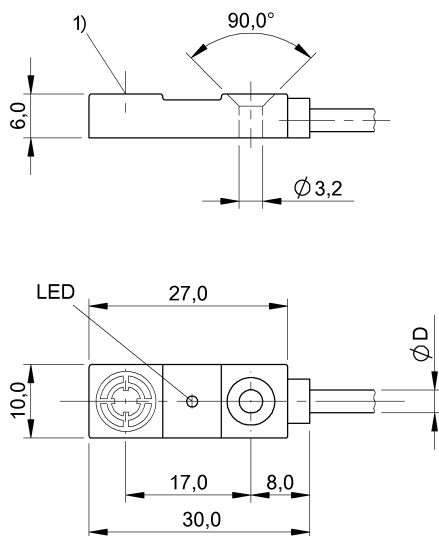




1) Sensing surface



Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable diameter D	3.00 mm
Cable length	5 m
Conductor cross-section	0.14 mm ²
Connection type	Cable, 5.00 m, TPU
Number of conductors	3
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Contamination scale	3
Hysteresis H max. (% of Sr)	15.0 %
Load capacitance max. at Ue	0.2 µF
MTTF (40 °C)	830 a
No-load current I _o undamped max.	10 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	Open collector
Polarity reversal protected	yes
Rated insulation voltage U _i	75 V DC
Rated operating current I _e DC	100 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	15 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current I _r max.	1 µA
Ripple max. (% of U _e)	15 %
Switching frequency	3000 Hz

Utilization category	DC-12
Voltage drop static max.	2.5 V

Environmental conditions

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

General data

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

Material

Housing material	PA, PA 6GF30
Material jacket	TPU
Material sensing surface	PA 6, GF30black

Mechanical data

Dimension	30 x 10 x 6 mm
Installation	for flush mounting

Output/Interface

Switching output	PNP Normally closed (NC)
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Range/Distance

Assured operating distance S _a	2.4 mm
Effective operating distance S _r	3 mm
Rated operating distance S _n	3 mm

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BALLUFF

Temperature drift max. (% of Sr) 10 %

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

Remarks

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

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

Wiring Diagram

