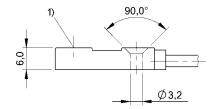
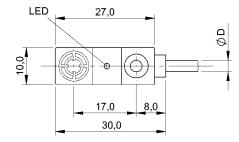
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BALLUFF





1) Sensing surface









Doo	i o	footi	

Power indicator	no	
Function indicator	yes	
Display/Operation		
Basic standard	WEEE IEC 60947-5-2	
Approval/Conformity	CE UKCA cULus	
Basic features		

Electrical connection

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

Electrical data

Load capacitance max. at Ue	0.2 µF
No-load current lo max., damped	3 mA
No-load current lo max., undamped	10 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	Open collector
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	15 ms
Residual current Ir max.	1 μΑ
Ripple max. (% of Ue)	15 %
Switching frequency	3000 Hz
Utilization category	DC -12
Voltage drop static max.	2.5 V

Environmental conditions

MTTF (40 °C)	830 a
Functional safety	
IP rating	IP67
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms
Contamination scale	3
Ambient temperature	-2570 °C
Environmental condition	IS

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Interface

Switching output PNP normally closed (NC) Material Housing material PA 6, GF30 Material jacket TPU Material sensing surface PA 6, GF30/black

Mechanical data

Dimension 30 x 10 x 6 mm Installation for flush mounting Size 30x10x6

Range/Distance

Assured operating distance Sa 2.4 mm Hysteresis H max. (% of Sr) 15.0 % Rated operating distance Sn $3\,\mathrm{mm}$ Real switching distance sr 3 mm Repeat accuracy max. (% of Sr) 5.0 % Temperature drift max. (% of Sr) 10 % Tolerance Sr ±10 %

Remarks

The sensor is functional again after the overload has been eliminated. For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Subject to change without notice: 189427

Wiring Diagrams

