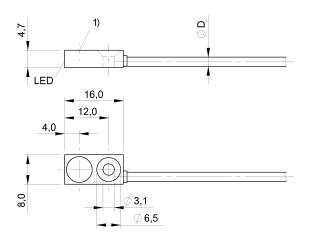
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BALLUFF



1) Sensing surface





yes no

Basic features

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

Display/Operation

Function indicator	
Power indicator	

Electrical connection

Cable diameter D	2.50 mm
Cable length L	2 m
Conductor cross-section	0.10 mm ²
Connection type	Cable, 2.00 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 Ue	0.2 µF
No-load current lo max., damped	10 mA
No-load current lo max., undamped	3 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.	20 ms
Residual current Ir max.	50 µA
Ripple max. (% of Ue)	15%
Switching frequency	5000 Hz
Utilization category	DC -12
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	-2570 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

Functional safety

MTTF (40 °C)

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Interface		Range/Distance		
Switching output Material	PNP normally open (NO)	Assured operating distance Sa Hysteresis H max. (% of Sr) Rated operating distance Sn	1.6 mm 15.0 % 2 mm	
Housing material Material jacket Material sensing surface Mechanical data	Brass, Nickel-free coated PUR Ceramic	Real switching distance sr Repeat accuracy max. (% of Sr) Switching distance marking Temperature drift max. (% of Sr) Tolerance Sr	2 mm 1.0 % ■ 10 % ±10 %	
Dimension Installation Size Remarks	16 x 8 x 4.7 mm for flush mounting 16x8x4.7			

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.

Wiring Diagrams

