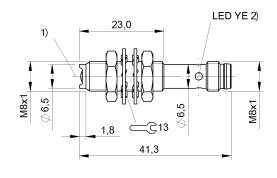
BALLUFF



1) Optical axis, 2) Output function



Basic features

Approval/Conformity			
Basic standard			
Principle of operation			
Series			
Style			

CULus CE WEEE IEC 60947-5-2 Photoelectric sensor 08E Cylinder Straight optics

Display/Operation

Display

Limit range - LED yellow, flashing LED yellow: Light received

Electrical connection

Connection	Connector, M8x1-Male, 3-pin
Contact, surface protection	Gold plated
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.5 μF
No-load current lo max. at Ue	15 mA
Operating voltage Ub	1030 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	20 ms
Ripple max. (% of Ue)	10 %
Switching frequency	500 Hz
Turn-off delay toff max.	1 ms
Turn-on delay ton max.	1 ms
Utilization category	DC -13
Voltage drop Ud max. at le	0.7 V

Environmental conditions

-555 °C
Half-sinus, 30 gn, 11 ms, 3x6 Half-sinus, 100 gn, 2 ms, 3x8000
102000 Hz, amplitude 1 mm, 30 gn, 3x5 h 1055 Hz, amplitude 1 mm, 3x30 min
IP67
Stainless steel PMMA

Photoelectric Sensors BOS 08E-PS-KD20-S49 Order Code: BOS01NN



Mechanical data

Dimension Mounting	Ø 8 x 40 mm Nut M8x1	Switching output	PNP normally open (NO)
		Range/Distance	
Optical features		Range	160 mm
Beam characteristic	Divergent	Rated operating distance Sn	60 mm
LED group per IEC 62471	Exempt Group		
Light spot size	Ø 3.0 mm Light exit		
Light type	LED, red light		
Principle of optical operation	Diffuse sensor, energetic		
Switching function, optical	Light-on		
Wave length	645 nm		

Output/Interface

Remarks

Order accessories separately.

For additional information, refer to user's guide.

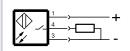
Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Use an R/C (CYJV2) cable with suitable properties for attaching the device.

Actuation object (target): gray card, 200 x 200, 90 % remission, lateral approach, approach direction vertical to lens axis plane. The sensor is functional again after the overload has been eliminated.

Connector Drawings



Wiring Diagrams



Opto Symbols

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