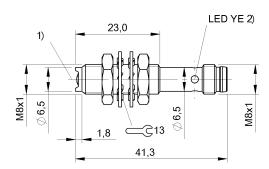
BYLLUFF



1) Optical axis, 2) Output function









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Approval/Conformity	CE
	UKCA
	cULus
	WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Series	08E
Style	Cylinder
	Straight optics

Display/Operation

Display Limit range - LED yellow,	
	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	0.05 μF
No-load current lo max. at Ue	10 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				
Ambient temperature	-555 °C			
EN 60068-2-27, Shock	Half-sinus, 100 gn, 2 ms, 3x8000 Half-sinus, 30 g _n , 11 ms, 3x6			
EN 60068-2-6, Vibration	1055 Hz, amplitude 1 mm, 3x30 min 102000 Hz, amplitude 1 mm, 30 gn, 3x5 h			
IP rating	IP67			
Functional safety				
MTTF (40 °C)	1989 a			

Photoelectric Sensors

BOS 08E-NS-KE20-S49 Order Code: BOS0207



Interface Optical features Switching output NPN normally open (NO) Principle of optical operation Through-beam sensor (receiver) Switching function, optical dark-on Material Range/Distance Housing material Stainless steel PMMA Material sensing surface Range 0...2.2 m Rated operating distance Sn $2.2 \, \text{m}$ Mechanical data Dimension Ø 8 x 40 mm Mounting part Nut M8x1

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

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.

Connector Drawings
1 • • 3



Opto Symbols	