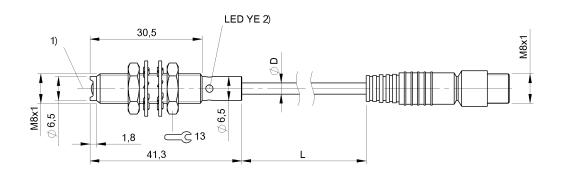
BOS 08E-PS-PR20-00,2-S49

Order Code: BOS01RL





1) Optical axis, 2) Output function









Basic features

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

Display/Operation

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

Electrical connection

Cable diameter D	3.00 mm
Cable length L	0.2 m
Connection	Cable with connector, 0.20 m, PUR
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

Environmental conditions		
Ambient temperature EN 60068-2-27, Shock	-555 °C Half-sinus, 100 gn, 2 ms, 3x8000 Half-sinus, 30 g _n , 11 ms, 3x6	
EN 60068-2-6, Vibration	₁₀ 2000 Hz, amplitude 1 mm, 30 gn, 3x5 h 1055 Hz, amplitude 1 mm, 3x30 min	
IP rating	IP67	
Functional safety		
MTTF (40 °C)	1559 a	

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Interface

Switching output
PNP normally open (NO)

Material
Housing material
Stainless steel
Material jacket
PUR
Material sensing surface
PMMA

Mechanical data

DimensionØ 8 x 40 mmMounting partNut M8x1

Optical features

 Beam characteristic
 Divergent

 LED group per IEC 62471
 Exempt Group

 Light spot size
 Ø 3.0 mm Light exit

 Light type
 LED, red light

 Polarizing filter
 yes

Principle of optical operation Retroreflective sensor
Switching function, optical dark-on

Switching function, optical dark-on Wave length 645 nm

Range/Distance

 $\begin{array}{ccc} \textbf{Range} & 30 \ \text{mm...1 m} \\ \textbf{Rated operating distance Sn} & 1 \ \text{m} \\ \end{array}$

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.

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

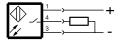
For more information about MTTF and B10d see MTTF / B10d Certificate

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



Wiring Diagrams



Opto Symbols

