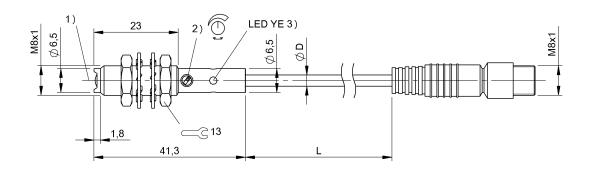
BOS 08E-PS-KH22-00,2-S49

Order Code: BOS01H0





1) Optical axis, 2) Sn, 3) Output function









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Approval/Conformity	cULus	
	CE	
	UKCA	
	WEEE	
Basic standard	IEC 60947-5-2	
Principle of operation	Photoelectric sensor	
Series	08E	
Display/Operation		

Adjuster	Potentiometer 270°	
Display	Output function- LED yellow	
	Limit range - LED yellow, flashing	
Setting	Rated switching distance (Sn)	

Electrical connection

Cable diameter D	3.00 mm
Cable length L	0.2 m
Connection	Cable with connector, M8x1-Male, 3-pin, 0.20 m, PUR
Polarity reversal protected	yes
Short-circuit protection	yes
Connection Polarity reversal protected	Cable with connector, M8x1-M 3-pin, 0.20 m, PUR yes

Electrical data

Load capacitance max. at Ue	0.1 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.	100 ms
Ripple max. (% of Ue)	5 %
Switching frequency	450 Hz
Turn-off delay toff max.	1.11 ms
Turn-on delay ton max.	1.11 ms
Voltage drop Ud max. at le	0.7 V

Environmental conditions		
Ambient temperature IP rating	-555 °C IP64	
Functional safety		
MTTF (40 °C)	75.9 a	
Interface		
Switching output	PNP normally open (NO)	

Material

Subject to change without notice: 253854

Housing material	Stainless steel
Material jacket	PUR
Material sensing surface	PMMA

Photoelectric Sensors

BOS 08E-PS-KH22-00,2-S49 Order Code: BOS01H0

BVLLUFF

Mechanical data

Dimension Ø 8 x 40 mm Mounting part Nut M8x1

Optical features

Beam characteristic Divergent LED group per IEC 62471 Exempt Group Ø 2.5 mm Light exit Light spot size Light type LED, red light

Principle of optical operation Diffuse sensor, triangulation Special optical feature Background suppression

Switching function, optical Light-on Wave length 640 nm

Range/Distance

Distance deviation 18 % max. (% of Sr)

Hysteresis H max. (% of Sr)

Range

Rated operating distance Sn

Repeat accuracy max. (% of Sr) Temperature drift max. (% of Sr) 5 % on 90 % rem.

10.0 % 7...30 mm

30 mm, Adjustable

3.0 % 10 %

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.

Reference object (target): gray card, 200 x 200, 90 % remission, axial approach.

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

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

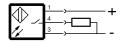
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

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Connector Drawings



Wiring Diagrams (Schematic)



Opto Symbols

