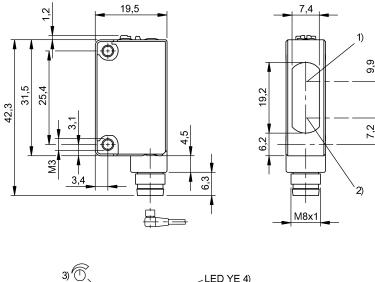
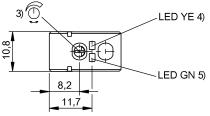
Photoelectric Sensors BOS 5K-PS-RR10-S75 Order Code: BOS012E







Electrical connection

1) Optical axis receiver, 2) Optical axis emitter, 3) Sn, 4) Output function, 5) stability



Basic features

Approval/Conformity cULus Connection Connector, M8x1-Male, 4-pin CE Polarity reversal protected yes EAC Short-circuit protection yes WEEE UKCA **Electrical data** IEC 60947-5-2 Basic standard Principle of operation Photoelectric sensor No-load current lo max. at Ue 30 mA Reference reflector BOS R-9 **Operating voltage Ub** 10...30 VDC 5K Series Rated operating current le 100 mA Style Square Rated operating voltage Ue DC 24 V Connection 90° Ready delay tv max. 100 ms Trademark Global Ripple max. (% of Ue) 10 % 500 Hz Switching frequency **Display/Operation** Turn-off delay toff max. 1 ms Turn-on delay ton max. 1 ms Potentiometer 270° 2 V Voltage drop Ud max. at le

Adjuster	
Display	

Output function- LED yellow Stability - LED green Sensitivity (Sn)

Subject to change without notice: 229650

Internet

Setting

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Environmental conditions



Environmental conditions		Mechanical data	
Ambient temperature	-2555 °C	Dimension	10.8 x 43.5 x 19.5 mn
EN 60068-2-27, Shock	Half-sinus, 50 g _n , 11 ms, 3x10	Mounting part	Screw M3
EN 60068-2-6, Vibration	1055 Hz, amplitude 0.75 mm, 3x20 min	Optical features	
IP rating	IP67	Ambient light max.	5000 Lux
Functional safety		Beam characteristic	Divergent
Functional Safety		Blind zone	100 mm
MTTF (40 °C)	39 a	Light spot size	Ø 160 mm at 2 m
		Light type	LED, red light
Interface		Polarizing filter	yes
Switching output	PNP normally open (NO) Pin 4	Principle of optical operation	Retroreflective senso
		Switching function, optical	dark-on
Material		Wave length	660 nm
Housing material	PC PBT	Range/Distance	
Material sensing surface	PMMA	Range	04 m
material sensing surface		Rated operating distance Sn	4 m Adjustable

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.

Polarizing filters prevent spurious switching due to reflecting and shiny parts.

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.

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

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Opto Symbols

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