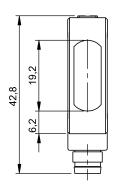
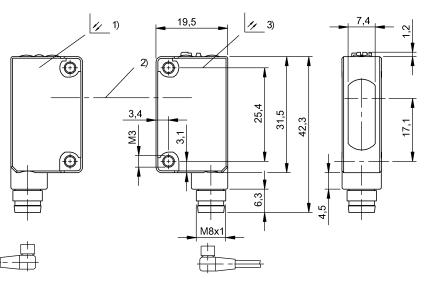
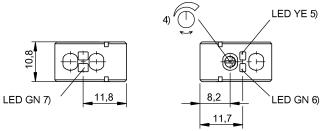
# **Photoelectric Sensors BOS 5K-PO-IX10-S75 Order Code: BOS011R**









1) Emitter, 2) Optical axis, 3) Receiver, 4) Sensitivity, 5) Output function, 6) stability, 7) Operating voltage



### **Basic features**

#### Approval/Conformity cULus CE EAC WEEE UKCA Basic standard IEC 60947-5-2 Principle of operation Photoelectric sensor Series 5K Style Square Connection 90° Trademark Global **Display/Operation** Adjuster Potentiometer 270° Output function- LED yellow Display

Setting

LED green: Power Stability - LED green Sensitivity (Sn)

### **Electrical connection**

Connection	Connector, M8x1-Male, 4-pin		
Polarity reversal protected	yes		
Short-circuit protection	yes		
Electrical data			
Operating voltage Ub	1030 VDC		
Rated operating current le	100 mA		
Rated operating voltage Ue DC	24 V		
Ready delay tv max.	100 ms		
Ripple max. (% of Ue)	10 %		
Switching frequency	500 Hz		
Turn-off delay toff max.	1 ms		
Turn-on delay ton max.	1 ms		
Voltage drop Ud max. at le	2 V		

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Environmental condition	ions	Mechanical data	
Ambient temperature	-2555 °C	Dimension	10.8 x 43.5 x 19.5 mm
EN 60068-2-27, Shock	Half-sinus, 50 g <sub>n</sub> , 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
Eurotional cafaty		Light spot size	Ø 90 mm at 2 m
Functional safety		Light type	Infrared
MTTF (40 °C)	44 a	Principle of optical operation	Through-beam sensor
		Switching function, optical	Light-on
Interface		Wave length	880 nm
Switching output	PNP normally closed (NC) Pin 2	Range/Distance	
Material		Range	020 m
Housing material	PC	Rated operating distance Sn	20 m Adjustable
	PBT		
Material sensing surface	PMMA		

### Remarks

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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, lateral approach.

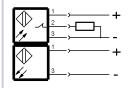
For more information about MTTF and B10d see MTTF / B10d Certificate

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**



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