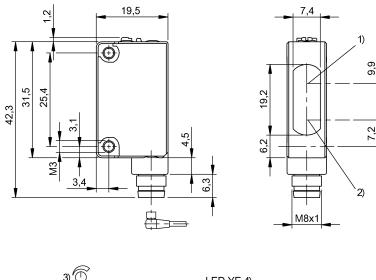
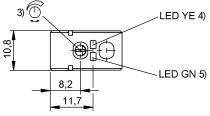
## Photoelectric Sensors BOS 5K-PS-RR10-S75 Order Code: BOS012E







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

Potentiometer 270°

Sensitivity (Sn)

Output function- LED yellow Stability - LED green





4-pin

### **Display/Operation**

Adjuster Display

## Setting

### **Electrical connection**

Connection	Connector, M8x1-Male,	
Polarity reversal protected	yes	
Short-circuit protection	yes	

#### **Electrical data**

No-load current lo max. at Ue	30 mA
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

#### Environmental conditions

Ambient temperature	-2555 °C	
EN 60068-2-27, Shock	Half-sinus, 50 gn, 11 ms, 3x10	
EN 60068-2-6, Vibration	1055 Hz, amplitude 0.75 mm, 3x20 min	
IP rating	IP67	

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

# BVLLAL

Functional safety		Mechanical data	
MTTF (40 °C) General data	39 a	Dimension Mounting	10.8 x 43.5 x 19.5 mm Screw M3
Approval/Conformity Basic standard Principle of operation Reference reflector Series Style Trademark	cULus CE EAC WEEE IEC 60947-5-2 Photoelectric sensor BOS R-9 5K Square Connection 90° Global	Optical data Ambient light max. Beam characteristic Blind zone Light spot size Light type Polarizing filter Principle of optical operation Switching function, optical Wave length	5000 Lux Divergent 100 mm Ø 160 mm at 2 m LED, red light yes Retroreflective sensor dark-on 660 nm
Material Housing material Material sensing surface	PC PBT PMMA	Output/Interface Switching output Range/Distance	PNP normally open (NO) Pin 4
		Range Rated operating distance Sn	04 m 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.

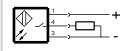
The sensor is functional again after the overload has been eliminated.

For further information about the 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



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

**Opto Symbols** 



