

1) Optical axis emitter, 2) Operating voltage, 3) Sn, 4) rotatable 270°



### Basic features

Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference receiver	BOS 50K-PS-RE10..
Series	50K
Style	Square Connection can be rotated

### Display/Operation

Adjuster	Potentiometer 270°
Display	LED green: Power
Setting	Rated switching distance (Sn)

### Electrical connection

Connection	Connector, M12x1-Male, 4-pin
Contact, surface protection	Gold plated
Polarity reversal protected	yes
Protection against device mix-ups	yes

### Electrical data

Input function	Test (Emitter off)
No-load current I <sub>o max.</sub> at U <sub>e</sub>	50 mA
Operating voltage U <sub>b</sub>	10...30 VDC
Protection class	II
Rated insulation voltage U <sub>i</sub>	250 V AC
Rated operating voltage U <sub>e</sub> DC	24 V
Ripple max. (% of U <sub>e</sub> )	10 %

Photoelectric Sensors  
**BOS 50K-XT-RS10-S4**  
 Order Code: BOS01CN



Environmental conditions

Ambient temperature	-5...55 °C
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms, 3x6
EN 60068-2-6, Vibration	10...55 Hz, amplitude 0.5 mm, 3x30 min
IP rating	IP67

Functional safety

MTTF (40 °C)	440 a
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Material

Housing material	PC ABS
Material sensing surface	Glass

Mechanical data

Dimension	28.5 x 80.5 x 62 mm
Mounting part	Screw M5

Optical features

Beam characteristic	Divergent
LED group per IEC 62471	Exempt Group
Light spot size	200 x 200 mm at 10 m
Light type	LED, red light
Principle of optical operation	Through-beam sensor (Emitter)
Wave length	630 nm

Range/Distance

Range	0...60 m
Rated operating distance Sn	60 m Adjustable

Remarks

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.

For additional information, refer to user's guide.

Order accessories separately.

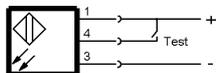
For more information about MTTF and B10d see MTTF / B10d Certificate

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

