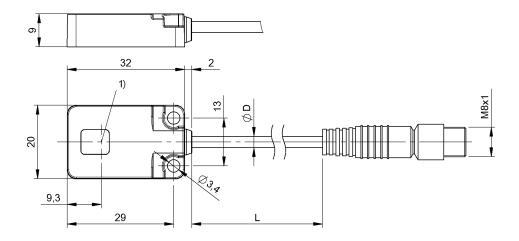
BOS R01E-X-KS20-00,2-S49

Order Code: BOS021R





1) Optical axis emitter



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Basic features Approval/Conformity Ecolab cULus CE WEEE Basic standard IEC 60947-5-2 Principle of operation Photoelectric sensor Reference receiver BOS R01E-..-KE20-.. Series R01E Style Square Connection 90°

Electrical connection

Protection against device mix-ups

Cable diameter D 3.00 mm Cable length L 0.2 m Connection Cable with connector, M8x1-Male, 3-pin, 0.20 m, PUR Contact, surface protection Gold plated Polarity reversal protected ves

yes

Electrical data

No-load current lo max. at Ue 10 mA Operating voltage Ub 10...30 VDC Rated insulation voltage Ui 75 V DC Rated operating voltage Ue DC 24 V

Environmental conditions

Ambient temperature -5...55 °C Contamination scale EN 60068-2-27, Shock Half-sinus, 100 gn, 2 ms, 3x8000 Half-sinus, 30 g_n , 11 ms, 3x6 10...55 Hz, amplitude 1 mm, EN 60068-2-6, Vibration 3x30 min 10...2000 Hz, amplitude 1 mm, 30 gn, 3x5 h IP rating IP rating per DIN 40050 Housing IP69K, Connector IP67

Functional safety

MTTF (40 °C) 548.1 a

Material

Subject to change without notice: 249152

Housing material 1.4404 stainless steel Material jacket PUR Material sensing surface PΑ

Mechanical data

Dimension 20 x 32 x 9 mm Mounting part Screw M3

Photoelectric Sensors

BOS R01E-X-KS20-00,2-S49 **Order Code: BOS021R**



Optical features

Beam characteristic Divergent LED group per IEC 62471 Exempt Group Light spot size Ø 3.0 mm Light exit Light type LED, red light Principle of optical operation Through-beam sensor Smallest part typ. Wave length 650 nm

0.4 mm at 1 m. R0 = 2 m

Range/Distance

Range 0...2.2 m Rated operating distance Sn 2.2 m

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.

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

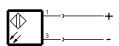
For more information about MTTF and B10d see MTTF / B10d Certificate

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



1) Emitter

Opto Symbols

