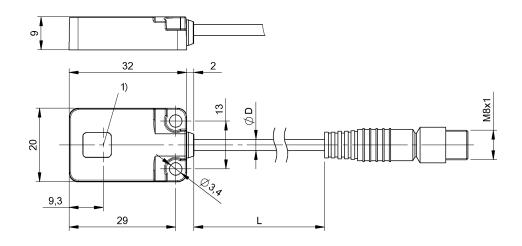
BOS R01E-X-KS20-00,2-S49

Order Code: BOS021R





1) Optical axis emitter



Approval/Conformity cULus CF

UKCA Ecolab WFFF

Basic standard IEC 60947-5-2 Principle of operation Photoelectric sensor Reference receiver BOS R01E-..-KE20-..

Series R01E Style Square Connection 90°

Electrical connection

Cable diameter D 3.00 mm 0.2 m Cable length L

Connection Cable with connector, M8x1-Male,

3-pin, 0.20 m, PUR

Contact, surface protection Gold plated Polarity reversal protected Protection against device mix-ups yes

Electrical data

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

Environmental conditions

-5...55 °C Ambient temperature Contamination scale

EN 60068-2-27, Shock Half-sinus, 100 gn, 2 ms, 3x8000

Half-sinus, 30 g_n, 11 ms, 3x6

EN 60068-2-6, Vibration 10...55 Hz, amplitude 1 mm, 3x30

10...2000 Hz, amplitude 1 mm, 30

gn, 3x5 h

IP rating per DIN 40050 Housing IP69K, Connector IP67

Functional safety

MTTF (40 °C) 548.1 a

Material

Subject to change without notice: 249152

IP rating

Housing material 1.4404 stainless steel **PUR**

Material jacket Material sensing surface РΑ

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 0.4 mm at 1 m. R0 = 2 m

650 nm

Range/Distance

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	
1 • • 3	

Wiring Diagrams		
+ 3 2		
1) Emitter		

Opto Symbols	
—	