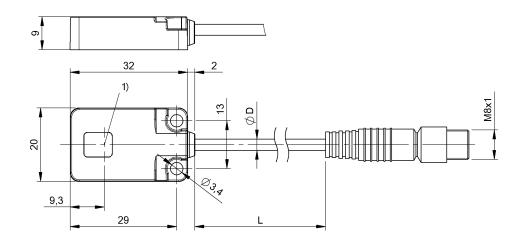
Photoelectric Sensors BOS R01E-X-KS20-00,2-S49 Order Code: BOS021R

BALLUFF



1) Optical axis emitter

Gold plated

yes

yes

Basic features

Approval/Conformity	Ecolab	Ambient temperature	-555 °C
	cULus	Contamination scale	3
	CE	EN 60068-2-27, Shock	Half-sinus, 100 gn, 2 ms, 3x8000
	WEEE		Half-sinus, 30 g _n , 11 ms, 3x6
Basic standard	IEC 60947-5-2	EN 60068-2-6, Vibration	1055 Hz, amplitude 1 mm,
Principle of operation	Photoelectric sensor		3x30 min
Reference receiver	BOS R01EKE20		₁₀ 2000 Hz, amplitude 1 mm, 30
Series	R01E		gn, 3x5 h
Style	Square	IP rating	IP67
	Connection 90°	IP rating per DIN 40050	Housing IP69K, Connector IP67
Electrical connection		Functional safety	
Cable diameter D	3.00 mm	MTTF (40 °C)	548.1 a
Cable length L	0.2 m		
Connection	Cable with connector, M8x1-Male,	Material	
	3-pin, 0.20 m, PUR		

Housing materialStainless steel (1.4404)Material jacketPURMaterial sensing surfacePA

Mechanical data

Environmental conditions

Dimension	20 x 32 x 9 mm
Mounting part	Screw M3

Contact, surface protection

Polarity reversal protected

Protection against device mix-ups

No-load current lo max. at Ue	10 mA
Operating voltage Ub	1030 VDC
Rated insulation voltage Ui	75 V DC
Rated operating voltage Ue DC	24 V

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Optical features

Beam characteristic
LED group per IEC 62471
Light spot size
Light type
Principle of optical operation

Divergent Exempt Group Ø 3.0 mm Light exit LED, red light Through-beam sensor

Smallest part typ.

Wave length

0.4 mm at 1 m. R0 = 2 m 650 nm

Range/Distance

Range Rated operating distance Sn 0...2.2 m 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 2 3 Wiring Diagrams) Emitter Opto Symbols

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