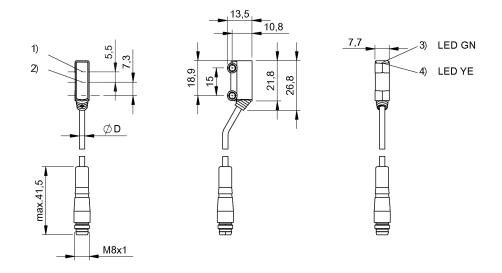
Photoelectric Sensors BOS R020K-PS-RF11-00,2-S49 Order Code: BOS020M





1) Optical axis receiver, 2) Optical axis emitter, 3) Operating voltage, 4) Light reception

Basic features

Approval/Conformity	CE
	cULus
	EAC
	WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Series	R020K
Style	Square
	Connection 60°

Display/Operation

Display

LED green: Power LED yellow: Light received

Electrical connection

Cable diameter D	2.40 mm
Cable length L	0.2 m
Connection	Cable with connector, M8x1-Male, 3-pin, 0.20 m, PVC
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

No-load current lo max. at Ue	20 mA
Operating voltage Ub	1030 VDC
Protection class	III
Rated insulation voltage Ui	50 V DC
Rated operating current le	50 mA
Rated operating voltage Ue DC	24 V
Ripple max. (% of Ue)	20 %
Switching frequency	800 Hz
Turn-off delay toff max.	0.63 ms
Turn-on delay ton max.	0.63 ms
Voltage drop Ud max. at le	2.5 V
Environmental conditio	ns
Ambient temperature	-2550 °C
IP rating	IP67
Functional safety	
MTTF (40 °C)	3487 a
Interface	
Switching output	PNP normally open (NO)
Material	
matorial	
Housing material	ABS
	ABS PVC

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7.7 x 26.8 x 13.5 mm

Screw M3



Range/Distance

Range	130 mm
Rated operating distance Sn	30 mm

Optical features

Mechanical data

Dimension

Mounting part

Ambient light max.	5000 Lux
Beam characteristic	Focus, typical at 15 mm
Light spot size	Ø 3 mm at 15 mm
Light type	LED, red light
Principle of optical operation	Diffuse sensor, HGA fixed
Special optical feature	Background suppression
Switching function, optical	Light-on
Wave length	660 nm

Remarks

Order accessories separately.

For additional information, refer to user's guide.

Reference object (target): gray card, 100 x 100, 90 % remission, axial approach. The sensor is functional again after the overload has been eliminated.

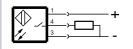
For more information about MTTF and B10d see MTTF / B10d Certificate

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



Opto Symbols

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