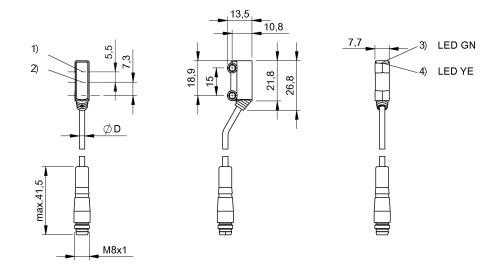
Photoelectric Sensors BOS R020K-PS-RF10-SA2-S49-00,3 Order Code: BOS020L





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



Basic features

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

Display/Operation

Display

Limit range - LED yellow, flashing LED yellow: Light received

Electrical connection

Cable diameter D	2.40 mm
Cable length L	0.3 m
Connection	Cable with connector, M8x1-Male, 3-pin, 0.30 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 conditions	
Ambient temperature	-2550 °C
IP rating	IP67
Functional safety	
MTTF (40 °C)	3487 a
Interface	
Switching output	PNP normally open (NO)
Material	
Housing material	ABS
Housing material Material jacket	ABS PVC

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Range/Distance

		-		
Dimension	7.7 x 26.8 x 13.5 mm	Range	115 mm	
Mounting part	Screw M3	Rated operating distance Sn	15 mm	
Optical features				

Ambient light max. Light spot size Light type Principle of optical operation Special optical feature Switching function, optical Wave length

Mechanical data

5000 Lux Ø 2 mm at 8 mm LED, red light Diffuse sensor, HGA fixed Background suppression Light-on 660 nm

Remarks

Reference object (target): gray card, 100 x 100, 90 % remission, axial approach. The sensor is functional again after the overload has been eliminated. Order accessories separately. For additional information, refer to user's guide.

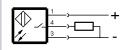
For more information about MTTF and B10d see MTTF / B10d Certificate

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 (Schematic)



Opto Symbols

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