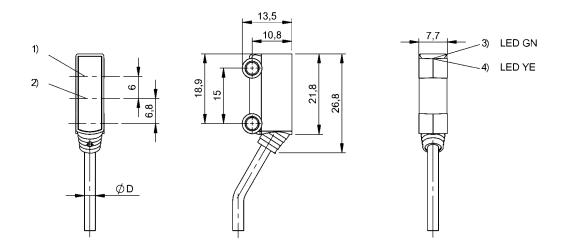
BOS R020K-PS-RF12-02 Order Code: BOS0216

BYLLUFF



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









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Approval/Conformity	CE
	cULus
	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 vallow: Light receive

Electrical connection

Cable diameter D	2.40 mm
Cable length L	2 m
Conductor cross-section	0.09 mm ²
Connection	Cable, 2.00 m, PVC
Number of conductors	3
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

Material sensing surface

Subject to change without notice: 243257

Environmental conditions		
Ambient temperature IP rating	-2550 °C IP67	
Functional safety		
MTTF (40 °C)	1547 a	
Interface		
Switching output	PNP normally open (NO)	
Material		
Housing material	ABS	
Material jacket	PVC	

PMMA

Photoelectric Sensors

BOS R020K-PS-RF12-02 Order Code: BOS0216



1...60 mm

60 mm

Mechanical data

Dimension 7.7 x 26.8 x 13.5 mm

Mounting part Screw M3

Range/Distance

Range
Rated operating distance Sn

Optical features

Ambient light max. 5000 Lux

Light spot sizeØ 4.5 mm at 40 mmLight typeLED, 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

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

Reference object (target): gray card, 100 x 100, 90 % remission, axial approach.

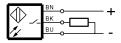
For additional information, refer to user's guide.

Order accessories separately.

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.

Wiring Diagrams



Opto Symbols

