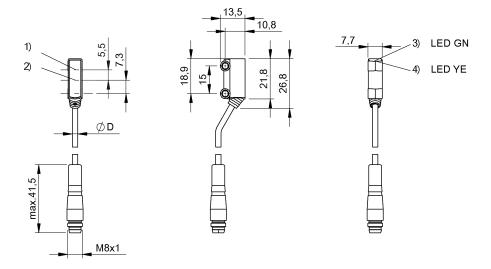
BOS R020K-PS-RF11-00,2-S75

Order Code: BOS020N





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





IND. CONT. EQ
4R97
for use in the secondary of



Basic features

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 yellow: Light received

Electrical connection

Cable diameter D

Short-circuit protection

Cable length L	0.2 m
Connection	Cable with connector, M8x1-Male, 4-pin, 0.20 m, PVC
Polarity reversal protected	yes
Protection against device mix-ups	yes

2.40 mm

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
Protection degree	IP67

Functional safety

MTTF (40 °C)	3487 a
--------------	--------

Material

Subject to change without notice: 271949

Housing material	ABS
Material jacket	PVC
Material sensing surface	PMMA

Mechanical data

Dimension	7.7 x 26.8 x 13.5 mm
Mounting	Screw M3

Photoelectric Sensors

BOS R020K-PS-RF11-00,2-S75 Order Code: BOS020N



Optical features

Ambient light max.

5000 Lux

Beam characteristic Light spot size Focus, typical at 15 mm Ø 3 mm at 15 mm LED, red light

Principle of optical operation Special optical feature Diffuse sensor, HGA fixed Background suppression

Switching function, optical Light-on

Wave length

660 nm

Output/Interface

Switching output

PNP normally open (NO) Pin 4

Range/Distance

Range

Rated operating distance Sn

1...30 mm 30 mm

Remarks

Light type

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.

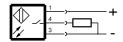
For more information about MTTF and B10d see MTTF / B10d Certificate

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

