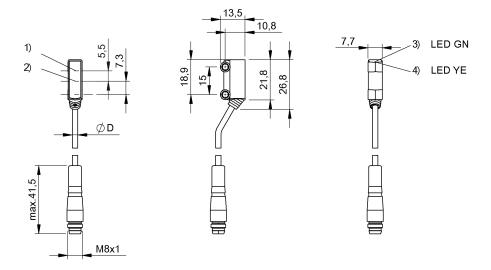
# BOS R020K-PS-RF10-00,2-S75

Order Code: BOS021E





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









Approval/Conformity	CF
Approval/Conformity	cULus
	WFFF
	UKCA
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Series	R020K
Style	Square
	Connection 60°
Display/Operation	
	LED green: Power
Display	
Display	LED yellow: Light received
Display  Electrical connection	•
	•
Electrical connection	LED yellow: Light received

4-pin, 0.20 m, PVC

yes

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) Pin 4
Material	
Housing material	ABS PVC
Material jacket	FVC

Polarity reversal protected

Short-circuit protection

PMMA

Material sensing surface

### **Photoelectric Sensors**

# BOS R020K-PS-RF10-00,2-S75 Order Code: BOS021E



#### Mechanical data

**Dimension** 7.7 x 26.8 x 13.5 mm

Mounting part Screw M3

#### Range/Distance

Rated operating distance Sn

1...15 mm 15 mm

### Optical features

Ambient light max.5000 LuxLight spot sizeØ 2 mm at 8 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

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.

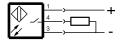
For more information about MTTF and B10d see MTTF / B10d Certificate

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 (Schematic)



# Opto Symbols

