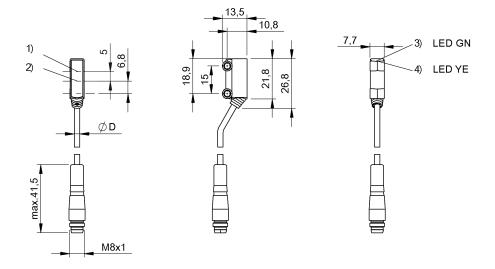
## BOS R020K-PS-PR11-00,2-S49

Order Code: BOS020T

# BALLUFF



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
Deference reflector	POC D O

BOS R-9 Reference reflector Series R020K Style Square Connection 60°

### Display/Operation

LED green: Power Display LED yellow: Light received

#### Electrical connection

Cable diameter D

0.2 m Cable length L Connection Cable with connector, M8x1-Male, 3-pin, 0.20 m, PVC

2.40 mm

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 10...30 VDC Protection class Ш Rated insulation voltage Ui 50 V DC Rated operating current le 50 mA Rated operating voltage Ue DC 24 V 20 % Ripple max. (% of Ue) 800 Hz Switching frequency Turn-off delay toff max. 0.63 ms Turn-on delay ton max. 0.63 ms 2.5 V Voltage drop Ud max. at le

#### **Environmental conditions**

-25...50 °C Ambient temperature IP rating IP67

#### Functional safety

MTTF (40 °C) 3378 a

#### Interface

Switching output PNP normally open (NO)

#### Material

Subject to change without notice: 271952

Housing material ABS Material jacket PVC Material sensing surface PMMA

#### **Photoelectric Sensors**

# BOS R020K-PS-PR11-00,2-S49

# BYLLUFF

Order Code: BOS020T

Mechanical data

7.7 x 26.8 x 13.5 mm

Mounting part Screw M3 Range/Distance

Range

Rated operating distance Sn

0...3 m 3 m

Optical features

Dimension

Ambient light max. 5000 Lux Beam characteristic Divergent Blind zone 25 mm

Light spot size Ø 10 mm at 100 mm Light type LED, red light

Polarizing filter

Principle of optical operation Retroreflective sensor

dark-on Switching function, optical Wave length 660 nm

#### Remarks

Order accessories separately.

For additional information, refer to user's guide.

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

Actuation object (target): gray card, 200 x 200, 90 % remission, lateral approach, approach direction vertical to lens axis plane.

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

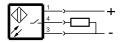
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Subject to change without notice: 271952

### **Connector Drawings**



## Wiring Diagrams



### **Opto Symbols**

