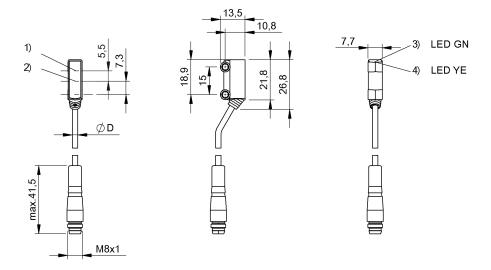
BOS R020K-PS-RF11-00,2-S49

Order Code: BOS020M

BVLLUFF



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









Basic features
Approval/Conformity

CE cULus WEEE UKCA IEC 60947-5-2 Photoelectric sensor

Principle of operation Series

Basic standard

R020K Square Connection 60°

Display/Operation

Display

Style

LED green: Power LED yellow: Light received

Electrical connection

Cable diameter D Cable length L

2.40 mm 0.2 m

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

Polarity reversal protected Protection against device mix-ups Short-circuit protection

yes yes 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

Ambient temperature IP rating

-25...50 °C IP67

Functional safety

MTTF (40 °C)

3487 a

Interface

Switching output

PNP normally open (NO)

Material

Subject to change without notice: 271948

Housing material ABS Material jacket PVC Material sensing surface PMMA

Photoelectric Sensors

BOS R020K-PS-RF11-00,2-S49 Order Code: BOS020M

BALLUFF

Mechanical data

Dimension 7.7 x 26.8 x 13.5 mm

Mounting part Screw M3 Range/Distance

Range Rated operating distance Sn 30 mm

1...30 mm

Optical features

Ambient light max. 5000 Lux

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

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.

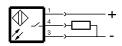
For more information about MTTF and B10d see MTTF / B10d Certificate

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

