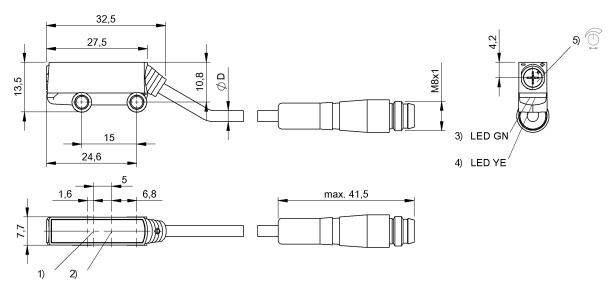
BOS R020K-PS-RH12-00,2-S75

Order Code: BOS0234

BALLUFF



1) Optical axis receiver, 2) Optical axis emitter, 3) Operating voltage, 4) Light reception, 5) Sn



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Ras	ic	features
Das		realures

Approval/Conformity CE cULus EAC WEEE Basic standard IEC 60947-5-2 Principle of operation Photoelectric sensor Series R020K Style Square Connection 60°

Display/Operation

Adjuster 3-turn potentiometer Display LED green: Power LED yellow: Light received Setting Rated switching distance (Sn)

Electrical connection

Cable diameter D 2.40 mm Cable length L 0.2 m Connection Cable with connector, M8x1-Male, 4-pin, 0.20 m, PVC Polarity reversal protected ves 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 Ripple max. (% of Ue) 20 % Switching frequency 800 Hz Turn-off delay toff max. 0.5 ms Turn-on delay ton max. 0.5 ms 2.5 V Voltage drop Ud max. at le

Environmental conditions

-20...50 °C Ambient temperature IP rating IP67

Functional safety

MTTF (40 °C) 3487 a

Interface

Switching output PNP normally open (NO) Pin 4

Material

Subject to change without notice: PV122627

Housing material ABS PVC Material jacket Material sensing surface PMMA

Photoelectric Sensors

BOS R020K-PS-RH12-00,2-S75 **Order Code: BOS0234**



Mechanical data

Dimension 7.7 x 32.5 x 13.5 mm

Mounting part Screw M3 Range/Distance

Range Rated operating distance Sn 150 mm

1...150 mm

Optical features

Ambient light max. 5000 Lux

Beam characteristic Focus, typical at 15 mm Ø 4.4 mm at 80 mm Light spot size Light type LED, red light

Principle of optical operation Diffuse sensor, triangulation Special optical feature Background suppression

Switching function, optical Light-on 660 nm Wave length

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.

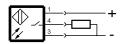
For more information about MTTF and B10d see MTTF / B10d Certificate

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



Opto Symbols

