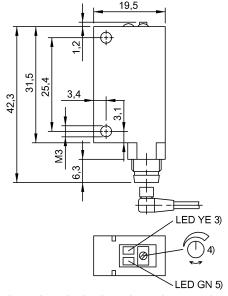
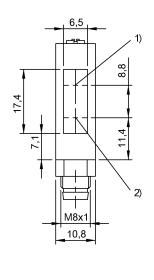
BOS 5K-PS-RD11-S49 Order Code: BOS015N

BALLUFF





1) Optical axis receiver, 2) Optical axis emitter, 3) Output function, 4) Sn, 5) stability

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Rasic features	
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Basic features Approval/Conformity cULus CF EAC WEEE UKCA Basic standard IEC 60947-5-2 Principle of operation Photoelectric sensor Series Style Square Connection 90° Trademark Global

Display/Operation

Adjuster Potentiometer 270° Output function- LED yellow Display Stability - LED green Rated switching distance (Sn) Setting

Electrical connection

Connection Connector, M8x1-Male, 3-pin Polarity reversal protected yes Short-circuit protection yes

Electrical data

No-load current lo max. at Ue 30 mA Operating voltage Ub 10...30 VDC 100 mA Rated operating current le Rated operating voltage Ue DC 24 V Ripple max. (% of Ue) 8 % Switching frequency 500 Hz Turn-off delay toff max. 1 ms Turn-on delay ton max. 1 ms Voltage drop Ud max. at le 1.2 V

Environmental conditions

Ambient temperature -25...55 °C EN 60068-2-27, Shock Half-sinus, 50 g_n , 11 ms, 3x10 EN 60068-2-6, Vibration 10...55 Hz, amplitude 0.75 mm, 3x20 min IP rating IP67

Functional safety

MTTF (40 °C) 16 a

Interface

Switching output PNP normally open (NO)

Material

Housing material РС PBT Material sensing surface PC

Photoelectric Sensors

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Mechanical data

Dimension 10.8 x 43.5 x 19.5 mm

Mounting part Screw M3

Range/Distance

Range

Rated operating distance Sn

50...200 mm 200 mm Adjustable

Optical features

Beam characteristic Divergent

Light spot size Ø 8 mm at 180 mm
Light type LED, red light

Principle of optical operation Diffuse sensor, energetic

Switching function, optical Light-on

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.

Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Use an R/C (CYJV2) cable with suitable properties for attaching the device.

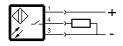
For more information about MTTF and B10d see MTTF / B10d Certificate

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

