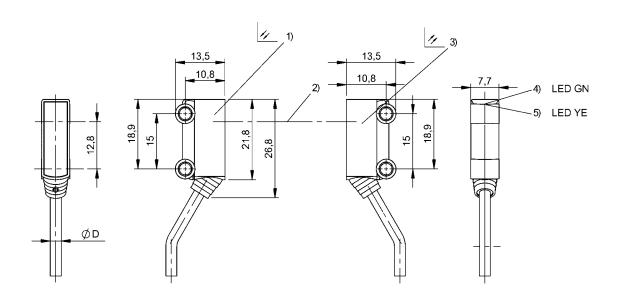
# BYLLUFF



1) Emitter, 2) Optical axis, 3) Receiver, 4) Operating voltage, 5) Output function







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

## Display/Operation

Display	LED green: Power
	LED yellow: Light received

#### Electrical connection

Cable diameter D	2.40 mm
Cable length L	2 m
Conductor cross-section	0.20 mm <sup>2</sup>
Connection	Cable, 2.00 m, PVC
Number of conductors	2
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

## Electrical data

Operating voltage Ub	1030 VDC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	100 ms
Ripple max. (% of Ue)	10 %
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 V

#### Photoelectric Sensors

# BOS R020K-PS-RX11-02 Order Code: BOS0211



#### **Environmental conditions**

Ambient temperature -25...55 °C IP rating IP67 Functional safety MTTF (40 °C) 2659 a Interface Switching output PNP normally open (NO) Material Housing material PC PBT Material jacket PVC

PMMA

#### Mechanical data

Dimension 7.7 x 26.8 x 13.5 mm Mounting part Screw M3

## Optical features

Ambient light max. 5000 Lux Beam characteristic Divergent Ø 23 mm at 500 mm Light spot size LED, red light Light type Principle of optical operation Through-beam sensor Switching function, optical dark-on Wave length 660 nm

### Range/Distance

0...2 m Range Rated operating distance Sn 2 m

#### Remarks

Actuation object (target): gray card, 200 x 200, lateral approach.

For additional information, refer to user's guide.

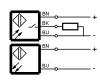
Order accessories separately.

Material sensing surface

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.

# Wiring Diagrams



# Opto Symbols





Subject to change without notice: 271960