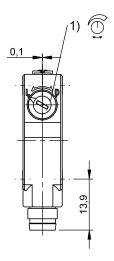
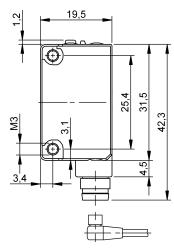
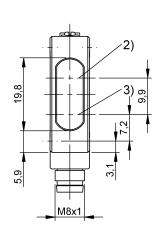
BOS R090K-PU-RR10-S49

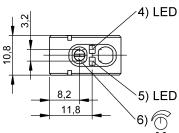
Order Code: BOS02A4











1) Mode settings, 2) Optical axis receiver, 3) Optical axis emitter, 4) Power indicator, 5) stability, 6) Sensitivity









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Approval/Conformity	cULus
	CE
	UKCA
	WEEE
Principle of operation	Photoelectric sensor
Series	R090K
Style	Square
	Connection 90°

Display/Operation

Adjuster	Potentiometer 270°
	Rotary switch 2 positions
Display	Output function- LED yellow Stability - LED green
Setting	Sensitivity (Sn) Light-on/dark-on

Electrical connection

Connection Polarity reversal protected Short-circuit protection	Connector, M8x1, 3-pin yes yes
Electrical data	
No-load current lo max. at Ue	20 mA
Operating voltage Ub	1030 VDC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	300 ms
Ripple max. (% of Ue)	10 %
Switching frequency	1000 Hz
Turn-off delay toff max.	0.5 ms
Turn-on delay ton max.	0.5 ms
Voltage drop Ud max. at le	2 V
Environmental conditions	

Ambient temperature	-3055 °C
IP rating	IP67

ETIM 6.0:

Photoelectric Sensors

BOS R090K-PU-RR10-S49 Order Code: BOS02A4



Functional safety

MTTF (40 °C) 90 a

Interface

Switching output PNP normally open/normally

closed (NO/NC)

Material

РС Housing material

PBT PMMA Material sensing surface

Mechanical data

10.7 x 43.5 x 19.5 mm Dimension

Mounting part Screw M3 Tightening torque max. 0.5 Nm

Optical features

Ambient light max. Beam characteristic Light spot size

Light type

Principle of optical operation Switching function, optical

Wave length

10000 Lux Divergent

Ø 105 mm at 2 m $\,$ LED, red light

Retroreflective sensor dark-on/light-on

660 nm

Range/Distance

Range

Subject to change without notice: 284393

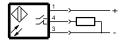
Rated operating distance Sn

 $0...5 \, m$ 5 m

Connector Drawings



Wiring Diagrams



Opto Symbols

