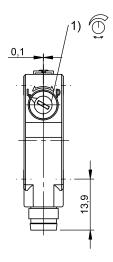
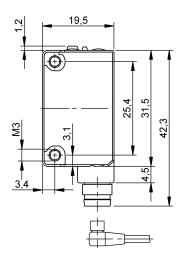
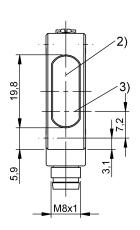
BOS R090K-PU-RH10-S75

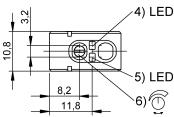
Order Code: BOS029M











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









Connection 90°

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Dа	310	reau	ai co

cULus
CE
UKCA
WEEE
Photoelectric sensor
R090K
Square

Display/Operation

Display/Operation		
Adjuster	6-turn potentiometer	
	Rotary switch 2 positions	
Display	Output function- LED yellow	
	Stability - LED green	
Setting	Rated switching distance (Sn)	
	Light-on/dark-on	

Electrical connection

Connection

Polarity reversal protected	yes yes	
Short-circuit protection		
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	-3555 °C	
IP rating	IP67	

Connector, M8x1, 4-pin

Photoelectric Sensors

BOS R090K-PU-RH10-S75 Order Code: BOS029M



Functional safety MTTF (40 °C) 92 a Interface Switching output PNP normally open/normally closed (NO/NC) Material PC Housing material PBT PMMA Material sensing surface

10.7 x 43.5 x 19.5 mm

Screw M3

0.5 Nm

Optical	features

Ambient light max. Beam characteristic Light spot size Light type Principle of optical operation Special optical feature

10000 Lux Focus, typical at 90 mm Ø 4.5 mm at 60 mm LED, red light Diffuse sensor, triangulation

Switching function, optical Wave length

Background suppression dark-on/light-on 660 nm

Range/Distance

Range Rated operating distance Sn 20...350 mm 350 mm Adjustable

Connector Drawings

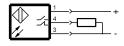


Mechanical data

Tightening torque max.

Dimension Mounting part

Wiring Diagrams



Opto Symbols

