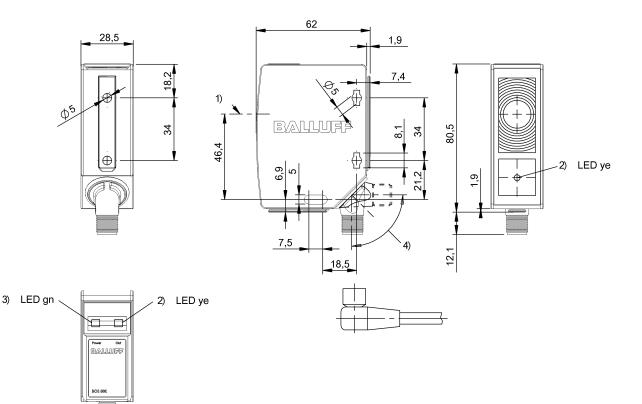
Photoelectric Sensors BOS 50K-PA-RE10-S4 Order Code: BOS01CK





1) Optical axis receiver, 2) Light reception, 3) Operating voltage, 4) rotatable 270°





Electrical connection

Connection	Connector M12v1 Male 4 nin	
Connection	Connector, M12x1-Male, 4-pir	
Contact, surface protection	Gold plated	
Polarity reversal protected	yes	
Protection against device mix-ups	yes	
Short-circuit protection	ves	

Basic features

Approval/Conformity CE cULus EAC WEEE IEC 60947-5-2 **Basic standard** Principle of operation Photoelectric sensor **Reference** emitter BOS 50K-X-RS10 -.. 50K Series Style Square Connection can be rotated

Display/Operation

Display

LED green: Power LED yellow: Light received

Photoelectric Sensors BOS 50K-PA-RE10-S4 **Order Code: BOS01CK**



		Temperature drift max. (% of Sr)	10 %
Protection degree	IP67	Rated operating distance Sn	60 m Adjustable
	3x30 min	Range	060 m
EN 60068-2-6, Vibration	1055 Hz, amplitude 0.5 mm,	Range/Distance	
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms, 3x6		
Ambient temperature	-555 °C		PNP NC Pins 4-2
Environmental conditions		Switching output	PNP normally open (NO)
		Output/Interface	
Voltage drop Ud max. at le	2.5 V		
Utilization category	DC -13	5 · · · · / · [· · · ··	dark-on
Turn-on delay ton max.	1.25 ms	Switching function, optical	Light-on
Turn-off delay toff max.	1.25 ms	Principle of optical operation	Through-beam sensor (receiver)
Switching frequency	400 Hz	Light type	LED, red light
Ripple max. (% of Ue)	10 %	Ambient light max.	10000 Lux
Residual current Ir max.	10 μA	Optical features	
Ready delay tv max.	200 ms		
Rated operating voltage Ue DC	24 V	Mounting	Screw M5
Rated operating current le	250 V AC 100 mA	Dimension	28.5 x 80.5 x 62 mm
Protection class Rated insulation voltage Ui	II 250 V AC	Mechanical data	
Operating voltage Ub	1030 VDC		
No-load current lo max. at Ue	35 mA	Material sensing surface	Glass
Load capacitance max. at Ue	7 μF	Housing material	PC ABS

Remarks

The sensor is functional again after the overload has been eliminated.

Order accessories separately.

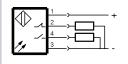
For additional information, refer to user's guide.

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.

Connector Drawings



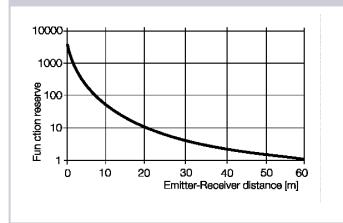
Wiring Diagrams



Photoelectric Sensors BOS 50K-PA-RE10-S4 Order Code: BOS01CK

BALLUFF

Technical Drawings



Opto Symbols

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