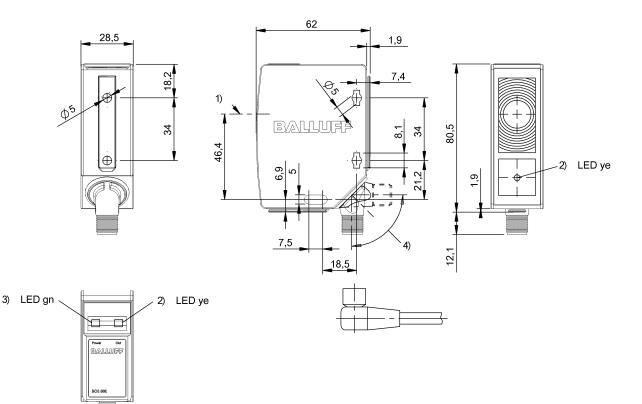
# Photoelectric Sensors BOS 50K-PA-RE10-S4 Order Code: BOS01CK





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.

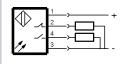
For additional information, refer to user's guide.

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**



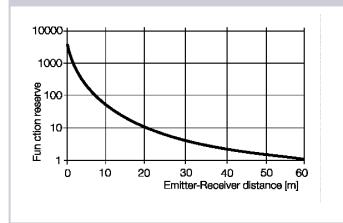
# Wiring Diagrams



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

# BALLUFF

Technical Drawings



# **Opto Symbols**

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