



1) Optical axis receiver 2) Optical axis emitter 3) Sn 4) Output function 5) Stability

- Photoelectric sensor
- Series 5K
- Infrared
- up to 1 m



**General attributes**

Adjuster	Potentiometer 270° (1x)
Approvals / Conformity	cULus CE
Basic standard	IEC 60947-5-2
Enclosure Type per IEC 60529	IP67
Indicator	Stability - LED GN Output function - LED YE
Polarity reversal protected	yes
Series	Series 5K
Setting	Switching distance (Sn)
Short circuit protected	yes
Trademark	GLOBAL

**Electrical attributes**

Connection type	Connector
Eff. operating current Ie	100 mA
Eff. operating voltage Ue DC	24.0 V
Electrical version	DC, direct current
No-load current max. I <sub>o</sub> at Ue	30 mA
Operating voltage UB max. DC [V]	30.0 V
Operating voltage UB min. DC [V]	10.0 V
Ripple max. (% of Ue)	10 %
Switching freq. f max. (at Ue)	500 Hz
Switching function	NC (pin 2)
Switching output	NPN (1x)
Turn on time t <sub>on</sub> max.	1.00 ms
Voltage drop Ud max. (at Ie)	2.0 V

**Mechanical attributes**

Ambient temperature Ta max.	55 °C
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Ambient temperature Ta min.	-25 °C
Connector type	M8x1-S75
Detection range Sd	0...900 mm
Eff. operating distance Sr	900 mm
Housing material	PC, PBT
Length 1	10.8 mm
Length 2	19.5 mm
Length 3	43.5 mm
Minimum operating distance	0 mm
Mounting type	Screw M3
Range Sn	Sn = 900 mm, adjustable
Sensing face material	PMMA
Style	Block, 90° connection

**Optical attributes**

Light type	Infrared
Principle of optical operation	Light scanner, energetic
Switching function, optical	NC: dark-on
Wavelength	880 nm

**Additional text**

Order accessories separately.  
For additional information, refer to user's guide.  
Only for NFPA 79 applications (machines with a supply voltage of maximum 600 volts).  
Device shall be connected only by using any R/C (CYJV2) cord, having suitable ratings.  
Reference object (target): Gray card, 200 x 200,

90 % remission, axial approach.  
The sensor is functional again after the overload has been eliminated.

Photoelectric sensor

**BOS 5K-NO-ID10-S75**  
**BOS010R**

**BALLUFF**  
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