



1) Emitter 2) Optical axis 3) Receiver 4) Sensitivity 5) Output function 6) Stability 7) Power

- Photoelectric sensor
- Series 5K
- Infrared
- up to 20 m



**General attributes**

Adjuster	Potentiometer 270° (1x)
Approvals / Conformity	cULus CE
Basic standard	IEC 60947-5-2
Enclosure Type per IEC 60529	IP67
Indicator	Power - LED GN Output function - LED YE Stability - LED GN
Polarity reversal protected	yes
Series	Series 5K
Setting	Sensitivity (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. Io at Ue	20 mA 15 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	NO
Switching output	NPN (1x)
Turn on time ton max.	1.00 ms

Voltage drop Ud max. (at Ie)

2.0 V

**Mechanical attributes**

Ambient temperature Ta max.	55 °C
Ambient temperature Ta min.	-25 °C
Connector type	M8x1-S49
Eff. operating distance Sr	20000 mm
Housing material	PC, PBT
Length 1	10.8 mm
Length 2	19.5 mm
Length 3	43.5 mm
Mounting type	Screw M3
Operating range Ro	0...20 m
Range Sn	Sn = 20 m, adjustable
Sensing face material	PMMA
Style	Block, 90° connection

**Optical attributes**

Light type	Infrared
Principle of optical operation	Through-beam
Switching function, optical	NO: 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.  
Operating object (test target): Gray card, 200 x 200, lateral approach

Photoelectric sensor

**BOS 5K-NO-IX10-S49**  
**BOS0159**

