



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	NC (pin 2)
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-S75
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	NC: light-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-S75
BOS010W

BALLUFF

sensors worldwide

