



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  
 yes  
 Series Series 5K  
 Setting Sensitivity (Sn)  
 Short circuit protected yes  
 Trademark GLOBAL

**Electrical attributes**

Connection type Cable  
 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  
 Switching output PNP (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  
 Cable diameter D max. 3.5 mm  
 Cable jacket material PVC  
 Cable length 2.00 m  
 Conductor cross-section 0.20 mm<sup>2</sup>  
 Eff. operating distance Sr 20000 mm  
 Housing material PC, PBT  
 Length 1 10.8 mm  
 Length 2 19.5 mm  
 Length 3 26.8 mm  
 Mounting type Screw M3  
 Number of conductors 3  
 2  
 Operating range Ro 0...20 m  
 Range Sn Sn = 20 m, adjustable  
 Sensing face material PMMA  
 Style Block, 45° 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.  
 Operating object (test target): Gray card, 200 x 200, lateral approach

Photoelectric sensor

**BOS 5K-PO-IX10-02**  
**BOS011N**

**BALLUFF**  
*sensors worldwide*

