



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 Output function - LED YE
 Polarity reversal protected Stability - LED GN
 Series yes
 Setting Series 5K
 Short circuit protected Switching distance (Sn)
 Trademark yes
 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. I_o 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 NO
 Switching output PNP (1x)
 Turn on time t_{on} 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 mm²
 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 26.8 mm
 Minimum operating distance 0 mm
 Mounting type Screw M3
 Number of conductors 3
 Range Sn Sn = 900 mm, adjustable
 Sensing face material PMMA
 Style Block, 45° connection

Optical attributes

Light type Infrared
 Principle of optical operation Light scanner, energetic
 Switching function, optical NO: light-on
 Wavelength 880 nm

Additional text

Order accessories separately.
 For additional information, refer to user's guide.
 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-PS-ID10-02
BOS0123

BALLUFF

sensors worldwide

