



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

- Photoelectric sensor
- Series 5K
- LED, red light
- up to 200 mm



General attributes

Adjuster Potentiometer 6-turn (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 yes
 Series Series 5K
 Setting Switching distance (Sn)
 Short circuit protected yes
 Trademark GLOBAL

Connector type M8x1-S49
 Detection range Sd 20...200 mm
 Eff. operating distance Sr 200 mm
 Housing material PC, PBT
 Length 1 10.8 mm
 Length 2 19.5 mm
 Length 3 32.7 mm
 Minimum operating distance 10 mm
 Mounting type Screw M3
 Range Sn Sn = 200 mm, adjustable
 Sensing face material PMMA
 Style Block, 90° connection

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 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 NPN (1x)
 Turn on time ton max. 1.00 ms
 Voltage drop Ud max. (at Ie) 2.0 V

Optical attributes

Ambient light max. 5,000 Lux
 Light type LED, red light
 Optical special feature Background suppression
 Principle of optical operation Light scanner, triangulation
 Switching function, optical NO: light-on
 Wavelength 660 nm

Additional text

Reference object (target): Gray card, 100 x 100
 90 % remission, axial approach.
 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.
 The sensor is functional again after the overload has been eliminated.

Mechanical attributes

Ambient temperature Ta max. 55 °C
 Ambient temperature Ta min. -25 °C

Photoelectric sensor

BOS 5K-NS-RH12-S49
BOS015Y

BALLUFF
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