



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 Stability - LED GN
 Output function - LED YE
 Power - 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
 30.0 V
 Operating voltage UB max. DC [V] 10.0 V
 Operating voltage UB min. DC [V] 10 %
 Ripple max. (% of Ue) 10 %
 Switching freq. f max. (at Ue) 500 Hz
 Switching function NO
 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
 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-PS-IX10-S49
BOS0158

BALLUFF

sensors worldwide

