



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 I_e 100 mA
 Eff. operating voltage U_e DC 24.0 V
 Electrical version DC, direct current
 No-load current max. I_o at U_e 20 mA
 15 mA
 Operating voltage U_B max. DC [V] 30.0 V
 Operating voltage U_B min. DC [V] 10.0 V
 Ripple max. (% of U_e) 10 %
 Switching freq. f max. (at U_e) 500 Hz
 Switching function NO
 Switching output NPN (1x)
 Turn on time t_{on} max. 1.00 ms
 Voltage drop U_d max. (at I_e) 2.0 V

Mechanical attributes

Ambient temperature T_a max. 55 °C
 Ambient temperature T_a 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
 Eff. operating distance S_r 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 R_o 0...20 m
 Range S_n S_n = 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 NO: dark-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-NS-IX10-02
BOS0118

BALLUFF

sensors worldwide

