



1) Optical axis 2) Output function 3) Stability 4) Sn

- Photoelectric sensor
- Series 18KF
- Infrared
- up to 1 m



General attributes

Adjuster Potentiometer 270° (1x)
 Approvals / Conformity CE
 cULus
 Basic standard IEC 60947-5-2
 Enclosure Type per IEC 60529 IP67
 Indicator Stability - LED GN
 Output function - LED YE
 Polarity reversal protected yes
 Series Series 18KF
 Setting Switching distance (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. I_o at Ue 35 mA
 Operating voltage UB max. DC [V] 30.0 V
 Operating voltage UB min. DC [V] 10.0 V
 Rated insulation voltage Ui 75 V DC
 Ripple max. (% of Ue) 8 %
 Switching freq. f max. (at Ue) 1000 Hz
 Switching function NO-NC (pins 4-2)
 Switching output PNP (2x)
 Turn on time t_{on} max. 0.50 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 M12x1-S04
 Detection range Sd 0...700 mm
 Eff. operating distance Sr 700 mm
 Housing material PBT
 Length 1 Ø18.0 mm
 Length 2 81.5 mm
 Length 3 14.0 mm
 Minimum operating distance 0 mm
 Mounting type Screw M3
 Nut M18x1
 Sn = 700 mm, adjustable
 Sensing face material PMMA
 Style Flat cylinder, straight optics
 Tightening torque max. 1.5 Nm

Optical attributes

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

Additional text

The sensor is functional again after the overload has been eliminated.
 Reference object (target): Gray card, 200 x 200,
 90 % remission, axial approach.
 For additional information, refer to user's guide.
 Order accessories separately.

Photoelectric sensor

BOS 18KF-PA-1PE-S4-C
BOS00K1

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