

1) Optical axis 2) Display and control panel 3) 270° rotatable

- Photoelectric sensor
- Series 21M
- LED, red light
- up to 5 m



General attributes

Adjuster Potentiometer 270° (1x)
 Approvals / Conformity CE
 cULus
 Basic standard IEC 60947-5-2
 Enclosure Type per IEC 60529 IP67
 Indicator Output function - LED YE
 Polarity reversal protected Stability - LED GN
 Protection Class yes
 Reference reflector II
 Series BOS R-1
 Setting Series 21M
 Short circuit protected Sensitivity (Sn)
 yes

Electrical attributes

Connection type Connector
 Eff. operating current I_e 100 mA
 Eff. operating voltage U_e DC 24.0 V
 Electrical version DC, direct current
 Load capacitance max. (at U_e) 1.00 µF
 No-load current max. I_o at U_e 35 mA
 Operating voltage U_B max. DC [V] 30.0 V
 Operating voltage U_B min. DC [V] 10.0 V
 Rated insulation voltage U_i 75 V DC
 Ripple max. (% of U_e) 8 %
 Switching freq. f max. (at U_e) 1000 Hz
 Switching function NO-NC (pins 4-2)

Switching output PNP (2x)
 Turn on time t_{on} max. 0.50 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
 Connector type M12x1-S04
 Eff. operating distance S_r 4000 mm
 Housing material GD-Zn, aluminum
 Length 1 15.0 mm
 Length 2 42.5 mm
 Length 3 50.0 mm
 Mounting type Screw M4
 Operating range R_o 0..4 m
 Range S_n S_n = 4 m, adjustable
 Sensing face material Glass
 Style Block, rotatable connection
 Surface protection Powder coated

Optical attributes

Light type LED, red light
 Optical special feature Coaxial optics
 Polarizing filter yes
 Principle of optical operation Retro-reflective sensor
 Switching function, optical NO dark-on - NC light-on
 Wavelength 650 nm

Photoelectric sensor

BOS 21M-PA-PK10-S4
BOS00TN

Additional text

Order accessories separately.

For additional information, refer to user's guide.

Polarizing filters prevent spurious switching due to reflecting and shiny parts.

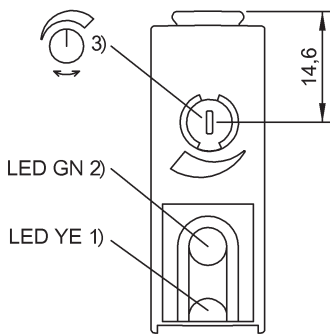
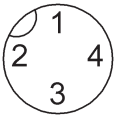
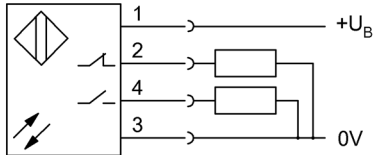
Only for NFPA 79 applications (machines with a supply voltage of maximum 600 volts).

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.

Operating object (test target): Gray card, 200 x 200, 90 % remission, lateral approach,

direction of movement vertical to plane of lens axes.



1) Output function 2) Stability 3) Sensitivity