



1) Optical axis 2) Sn 3) Power 4) Error 5) Light reception 6) a= 1x Sn / b= 0.5x Sn 7) a= Dark-on / b= Light-on

- Photoelectric sensor
- Series 30M
- Infrared
- up to 2 m



General attributes

Additional features
 Adjuster
 Approvals / Conformity

 Basic standard
 Enclosure Type per IEC 60529
 Indicator

Polarity reversal protected
 Series
 Setting
 Short circuit protected

Electrical attributes

Connection type
 Eff. operating current Ie
 Eff. operating voltage Ue DC
 Electrical version
 Load capacitance max. (at Ue)
 No-load current max. I_o at Ue
 Operating voltage UB max. DC [V]
 Operating voltage UB min. DC [V]
 Ripple max. (% of Ue)
 Switching freq. f max. (at Ue)
 Switching function
 Switching output
 Turn on time t_{on} max.
 Voltage drop Ud max. (at Ie)

Base unit for fibre optics BFO 18..
 Potentiometer 18-turn (1x)
 CE
 cULus
 IEC 60947-5-2
 IP65
 Error - LED RD
 Power - LED GN
 Light receipt - LED YE
 yes
 Series 30M
 Switching distance (Sn)
 yes

Connector
 200 mA
 24.0 V
 DC, direct current
 1.00 µF
 50 mA
 30.0 V
 11.0 V
 10 %
 15 Hz
 NO/NC
 PNP (1x), NPN (1x)
 33.00 ms
 2.5 V

Mechanical attributes

Ambient temperature Ta max.
 Ambient temperature Ta min.
 Connector type
 Detection range Sd
 Eff. operating distance Sr
 Housing material
 Length 1
 Length 2
 Minimum operating distance
 Mounting type
 Range Sn
 Sensing face material
 Style
 Surface protection
 Tightening torque max.

55 °C
 -5 °C
 M12x1-S04
 200...2000 mm
 2000 mm
 Brass
 Ø36.0 mm
 89.0 mm
 200 mm
 Nut M30x1.5
 Sn = 2 m, adjustable
 Glass
 Cylinder, straight optics
 Nickel-plated
 40 Nm

Optical attributes

Light type
 Principle of optical operation
 Switching function, optical
 Wavelength

Infrared
 Light scanner, energetic
 NO/NC: light-on/dark-on
 880 nm

Additional text

Reference object (target): Gray card, 200 x 200,

90 % remission, axial approach.
 The sensor is functional again after the overload has been eliminated.
 For additional information, refer to user's guide.
 Order accessories separately.

Photoelectric sensor
BOS 30M-GA-1PH-S4-C
Order code: **BOS0134**

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sensors worldwide

