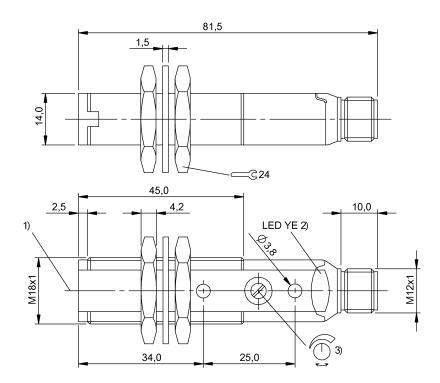
Photoelectric Sensors BOS 18KF-PA-1LOC-S4-C Order Code: BOS00JP





1) Optical axis, 2) Output function, 3) Sn





Basic features

Approval/Conformity CE С cULus Р EAC s WEEE IEC 60947-5-2 **Basic standard Electrical data** Principle of operation Photoelectric sensor Series 18KF Flat cylinder Style Straight optics Trademark Global **Display/Operation** Adjuster Potentiometer 270° Display Output function- LED yellow

Rated switching distance (Sn)

Electrical connection

| Connection | Connector, M12x1-Male, 4-pin |
|-----------------------------|------------------------------|
| | |
| Polarity reversal protected | yes |
| Short-circuit protection | yes |
| | |

| No-load current lo max. at Ue | 35 mA |
|-------------------------------|----------|
| Operating voltage Ub | 1030 VDC |
| Rated insulation voltage Ui | 75 V DC |
| Rated operating current le | 100 mA |
| Rated operating voltage Ue DC | 24 V |
| Ripple max. (% of Ue) | 8 % |
| Switching frequency | 1000 Hz |
| Turn-off delay toff max. | 0.33 ms |
| Turn-on delay ton max. | 0.33 ms |
| Voltage drop Ud max. at le | 2 V |

Setting

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BVLLAL

Environmental conditions

| -1050 °C | Ambient light max. | 5000 Lux |
|-------------------------------|--|---|
| Half-sinus, 30 gn, 11 ms, 3x6 | Average power Po max. | 390 μW |
| 1055 Hz, amplitude 0.5 mm, | Beam characteristic | Divergent |
| 3x30 min | Laser class per IEC 60825-1 | 1 |
| IP67 | Light spot size | Ø 1 mm at 150 mm |
| | Light type | Laser red light |
| | Principle of optical operation | Diffuse sensor, energetic |
| 720.2 | Pulse duration t max. | 6.0 μs |
| 139 a | Pulse frequency | 25 kHz |
| | Switching function, optical | Light-on |
| | Wave length | 650 nm |
| PBT | | |
| PMMA | Output/Interface | |
| | Switching output | PNP normally open (NO) |
| | | PNP NC Pins 4-2 |
| Ø 18 x 81.5 mm | | |
| Nut M18x1 | Range/Distance | |
| Screw M3 | Range | 0350 mm |
| 1.5 Nm | Rated operating distance Sn | 350 mm Adjustable |
| | Half-sinus, 30 gn, 11 ms, 3x6 1055 Hz, amplitude 0.5 mm, 3x30 min IP67 739 a PBT PMMA Ø 18 x 81.5 mm Nut M18x1 | Half-sinus, 30 gn, 11 ms, 3x6 1055 Hz, amplitude 0.5 mm, 3x30 min IP67 IP67 Average power Po max. Beam characteristic Laser class per IEC 60825-1 Light spot size Light type Principle of optical operation Pulse duration t max. Pulse frequency Switching function, optical Wave length PBT PMMA Output/Interface Switching output Ø 18 x 81.5 mm Nut M18x1 Screw M3 1.5 Nm |

Optical features

Remarks

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.

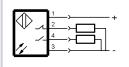
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



Wiring Diagrams



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Opto Symbols

|与

Warning Symbols



