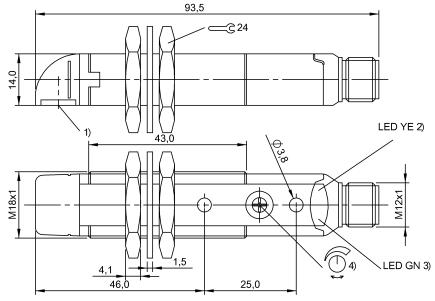
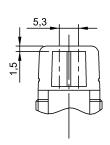
BOS 18KW-PA-1PD-S4-C

Order Code: BOS00LT

BVLLNEE





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









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Approval/Conformity CE cULus EAC WEEE Basic standard IEC 60947-5-2 Principle of operation Photoelectric sensor Series 18KW Style Flat cylinder Optics 90° Trademark Global

Display/Operation

Adjuster Potentiometer 270° Output function- LED yellow Display Stability - LED green Setting Rated switching distance (Sn)

Electrical connection

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

Electrical data

No-load current lo max. at Ue 35 mA Operating voltage Ub 10...30 VDC 75 V DC Rated insulation voltage Ui 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. 0.5 ms Turn-on delay ton max. 0.5 ms Voltage drop Ud max. at le 2 V

Environmental conditions

Ambient temperature -25...55 °C EN 60068-2-27, Shock Half-sinus, 30 g_n, 11 ms, 3x6 EN 60068-2-6, Vibration 10...55 Hz, amplitude 0.5 mm, 3x30 min IP67 IP rating

Functional safety

MTTF (40 °C) 774 a

Interface

Switching output PNP normally closed (NC) PNP normally open (NO) Pins 4-2

Photoelectric Sensors

BOS 18KW-PA-1PD-S4-C Order Code: BOS00LT



Material

Housing material PBT

Material sensing surface PMMA

Mechanical data

Dimension Ø 18 x 93.5 mm

Mounting part Screw M3
Nut M18x1

Tightening torque max. 1.5 Nm

Optical features

Ambient light max. 5000 Lux
Beam characteristic Divergent

Light spot size Ø 100 mm at 300 mm
Light type LED infrared

Principle of optical operation Diffuse sensor, energetic

Switching function, optical Light-on Wave length 880 nm

Range/Distance

Range 0...400 mm

Rated operating distance Sn 400 mm Adjustable

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.

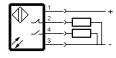
For more information about MTTF and B10d see MTTF / B10d Certificate

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



Opto Symbols

