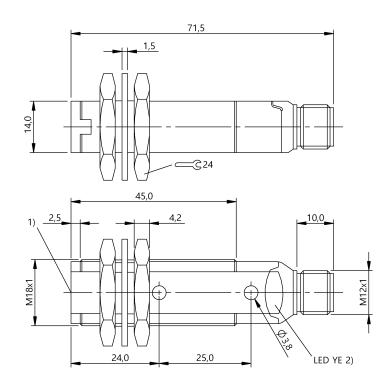
Photoelectric Sensors BOS 18KF-PA-1RE-S4-C Order Code: BOS00K5





1) Optical axis, 2) Output function





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Basic features		Electrical data	
Approval/Conformity Basic standard Principle of operation Reference reflector Series Style Trademark Display/Operation	CE UKCA cULus WEEE IEC 60947-5-2 Photoelectric sensor BOS R-1 18KF Flat cylinder Straight optics Global	No-load current Io max. at Ue Operating voltage Ub Rated insulation voltage Ui Rated operating current Ie Rated operating voltage Ue DC Ripple max. (% of Ue) Switching frequency Turn-off delay toff max. Turn-on delay ton max. Voltage drop Ud max. at Ie Environmental conditions	35 mA 1030 VDC 75 V DC 100 mA 24 V 8 % 1000 Hz 0.5 ms 0.5 ms 2 V
Display Electrical connection	Output function- LED yellow	Ambient temperature EN 60068-2-27, Shock EN 60068-2-6, Vibration	-2555 °C Half-sinus, 30 g _n , 11 ms, 3x6 1055 Hz, amplitude 0.5 mm, 3x30 min
Connection Polarity reversal protected	Connector, M12x1-Male, 4-pin yes	IP rating	IP67

Short-circuit protection

yes

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Functional safety	
MTTF (40 °C)	834 a

Optical featuresAmbient light max.5000 LuxBlind zone100 mmLight typeLED infraredPolarizing filternoPrinciple of optical operationRetroreflective sensorSwitching function, opticaldark-onWave length880 nm

Range/Distance

Range	05 m
Rated operating distance Sn	5 m, Adjustable

Tightening torque max.

Remarks

Interface

Material

Dimension

Mounting part

Switching output

Housing material

Material sensing surface

Mechanical data

The sensor is functional again after the overload has been eliminated.

For additional information, refer to user's guide.

Order accessories separately.

Actuation object (target): gray card, 200 x 200, 90 % remission, lateral approach, approach direction vertical to lens axis plane.

PNP normally closed (NC)

PBT

PMMA

Ø 18 x 71.5 mm

Nut M18x1 Screw M3

1.5 Nm

PNP normally open (NO) Pins 4-2

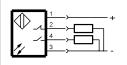
For more information about MTTF and B10d see MTTF / B10d Certificate

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 (Schematic)



Opto Symbols