

Photoelectric Sensors
BOS 18KF-NA-1PE-C-02
Order Code: BOS00J4

BALLUFF

Environmental conditions

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

Functional safety

MTTF (40 °C)	774 a
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Material

Housing material	PBT
Material jacket	PVC
Material sensing surface	PMMA

Mechanical data

Dimension	Ø 18 x 77 mm
Mounting	Screw M3 Nut M18x1
Tightening torque max.	1.5 Nm

Remarks

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.

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.

Optical features

Ambient light max.	5000 Lux
Beam characteristic	Divergent
Light type	LED infrared
Principle of optical operation	Diffuse sensor, energetic
Switching function, optical	Light-on
Wave length	880 nm

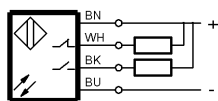
Output/Interface

Switching output	NPN normally open (NO) NPN NC Pins 4-2
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Range/Distance

Range	0...700 mm
Rated operating distance Sn	700 mm Adjustable

Wiring Diagrams



Opto Symbols

