



Environmental conditions

Ambient temperature	-25...70 °C
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms, 3x6
EN 60068-2-6, Vibration	10...55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

Functional safety

MTTF (40 °C)	1025 a
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Interface

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

Housing material	PBT
Material sensing surface	PMMA

Mechanical data

Dimension	Ø 18 x 81.5 mm
Mounting part	Nut M18x1 Screw M3
Tightening torque max.	1.5 Nm

Optical features

Beam characteristic	Focused
Light spot size	Ø 4.5 mm at 10 mm
Light type	LED white light
Principle of optical operation	Diffuse sensor, focused
Switching function, optical	Light/dark switching dark-on
Wave length	400...700 nm

Range/Distance

Range	8...12 mm
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Remarks

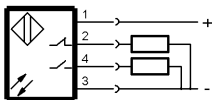
The sensor is functional again after the overload has been eliminated.  
Reference object (target): Color bar card, 100 x 100, contrast yellow/white and blue/black, lateral approach of color bars.  
For additional information, refer to user's guide.  
Order accessories separately.  
Do not press key using a pointed tool.  
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

