



**Environmental conditions**

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

**Functional safety**

<b>MTTF (40 °C)</b>	774 a
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**Material**

<b>Housing material</b>	PBT
<b>Material jacket</b>	PVC
<b>Material sensing surface</b>	PMMA

**Mechanical data**

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

**Optical features**

<b>Ambient light max.</b>	5000 Lux
<b>Beam characteristic</b>	Divergent
<b>Light spot size</b>	Ø 200 mm at 600 mm
<b>Light type</b>	LED infrared
<b>Principle of optical operation</b>	Diffuse sensor, energetic
<b>Switching function, optical</b>	Light-on
<b>Wave length</b>	880 nm

**Output/Interface**

<b>Switching output</b>	PNP normally open (NO) PNP NC Pins 4-2
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**Range/Distance**

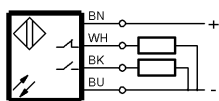
<b>Range</b>	0...700 mm
<b>Rated operating distance Sn</b>	700 mm Adjustable

**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.

**Wiring Diagrams**



**Opto Symbols**

