

1) Optical axis, 2) Operating voltage



### Basic features

<b>Approval/Conformity</b>	CE cULus EAC WEEE
<b>Basic standard</b>	IEC 60947-5-2
<b>Principle of operation</b>	Photoelectric sensor
<b>Reference receiver</b>	BLE 18KF-..-1PP-..
<b>Series</b>	18KF
<b>Style</b>	Flat cylinder Straight optics
<b>Trademark</b>	Global

### Display/Operation

<b>Display</b>	LED green: Power
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### Electrical connection

<b>Cable diameter D</b>	4.00 mm
<b>Cable length L</b>	2 m
<b>Conductor cross-section</b>	0.14 mm <sup>2</sup>
<b>Connection</b>	Cable, 2.00 m, PVC
<b>Number of conductors</b>	4
<b>Polarity reversal protected</b>	yes

### Electrical data

<b>Input function</b>	Test (Emitter off)
<b>No-load current I<sub>o max.</sub> at U<sub>e</sub></b>	35 mA
<b>Operating voltage U<sub>b</sub></b>	10...30 VDC
<b>Rated insulation voltage U<sub>i</sub></b>	75 V DC
<b>Rated operating voltage U<sub>e DC</sub></b>	24 V
<b>Ripple max. (% of U<sub>e</sub>)</b>	8 %

**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>	991 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 67 mm
<b>Mounting</b>	Screw M3 Nut M18x1
<b>Tightening torque max.</b>	1.5 Nm

**Optical features**

<b>Light type</b>	Infrared
<b>Principle of optical operation</b>	Through-beam sensor (Emitter)
<b>Wave length</b>	880 nm

**Range/Distance**

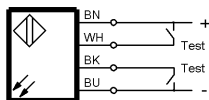
<b>Range</b>	0...20 m
<b>Rated operating distance Sn</b>	20 m Adjustable

**Remarks**

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**

