

1) Optical axis, 2) Operating voltage



### Basic features

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

### Display/Operation

Display	LED green: Power
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### Electrical connection

Connection	Connector, M12x1-Male, 4-pin
Polarity reversal protected	yes

### Electrical data

Input function	Test (Emitter off)
No-load current $I_0$ max. at $U_e$	35 mA
Operating voltage $U_b$	10...30 VDC
Rated insulation voltage $U_i$	75 V DC
Rated operating voltage $U_e$ DC	24 V
Ripple max. (% of $U_e$ )	8 %

### Environmental conditions

Ambient temperature	-10...50 °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)	1104 a
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**Material**

Housing material	PBT
Material sensing surface	PMMA

**Mechanical data**

Dimension	Ø 18 x 71.5 mm
Mounting	Screw M3 Nut M18x1
Tightening torque max.	1.5 Nm

**Optical features**

Average power Po max.	390 µW
Laser class per IEC 60825-1	1
Light type	Laser red light
Principle of optical operation	Through-beam sensor (Emitter)
Pulse duration t max.	6.0 µs
Pulse frequency	25 kHz
Wave length	650 nm

**Range/Distance**

Range	0...60 m
Rated operating distance Sn	60 m Adjustable

**Remarks**

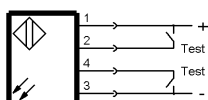
For additional information, refer to user's guide.  
 Order accessories separately.  
 For more information about MTTF and B10d see MTTF / B10d Certificate

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.

**Connector Drawings**



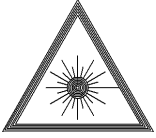
**Wiring Diagrams**



**Opto Symbols**



## Warning Symbols



LASER CLASS 1 per IEC 60825-1