

1) Optical axis, 2) Focus distance



### Basic features

Approval/Conformity	CE cULus WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference receiver	BLE 18M-...-1LT..
Series	18M
Style	Cylinder Straight optics

### Display/Operation

Adjuster	Adjusting nut
Setting	Focusing distance

### Electrical connection

Connection	Connector, M12x1-Male, 4-pin
Polarity reversal protected	yes
Protection against device mix-ups	yes

### Electrical data

No-load current $I_o$ max. at $U_e$	10 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 $U_e$ )	15 %

### Environmental conditions

Ambient temperature	-10...50 °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	IP65

### Functional safety

MTTF (40 °C)	15 a
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### Material

Housing material	Brass, nickel-plated
Material sensing surface	Glass
Surface protection	nickel-plated

### Mechanical data

Dimension	Ø 18 x 79 mm
Mounting part	Nut M18x1

### Optical features

Average power $P_o$ max.	1 mW
Beam characteristic	Focus adjustable $\geq 0.2$ m
Laser class per IEC 60825-1	2
Light type	Laser red light
Principle of optical operation	Through-beam sensor (Emitter)
Wave length	660 nm

**Range/Distance**

<b>Range</b>	0...50 m
<b>Rated operating distance Sn</b>	50 m Adjustable

**Remarks**

Focusing tool included, order other accessories separately.

For additional information, refer to user's guide.

Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Use an R/C (CYJV2) cable with suitable properties for attaching the device.

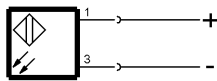
For more information about MTTF and B10d see MTTF / B10d Certificate

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

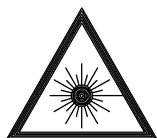


1) Emitter

### Opto Symbols



### Warning Symbols



**LASER BEAM - DO NOT STARE INTO THE LIGHT BEAM!**

LASER CLASS 2 per IEC60825-1: 2003-10