

1) Optical axis 2) Focus distance



Display/Operation

Adjuster	Adjusting nut
Setting	Focusing distance

Electrical connection

Connection	Connector, M12x1-Male, 4-pole
Protection against device mix-ups	yes

Electrical data

No-load current I_0 max. at U_e	10 mA
Operating voltage U_b	10...30 VDC
Polarity reversal protected	yes
Rated insulation voltage U_i	75 V DC
Rated operating voltage U_e DC	24 V
Residual ripple max. (% of U_e)	15 %

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 1 mm, 3x30 min
IP rating	IP65

Functional safety

MTTF (40 °C)	15 a
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General data

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

Material

Housing material	Brass
Material sensing surface	Glass
Surface protection	nickel plates

Mechanical data

Dimension	Ø 18 x 79 mm
Fastening detail	Nut M18x1

Optical data

Average power P_0 max.	1 mW
Beam characteristic	Focus adjustable ≥ 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

Range	0...50 m
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Rated operating distance Sn 50 m, Adjustable

For further information about the MTTF and B10d see MTTF / B10d certificate

Remarks

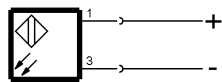
Focusing tool included, order other accessories separately.
For additional information, refer to user's guide.
Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Use an R/C (CYJV2) cable with suitable properties for attaching the device.

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 view



Wiring Diagram

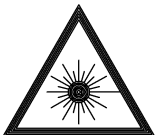


1) Emitter

Symbols for Optoelectronic Sensors



Warning Symbols



LASER BEAM - DO NOT STARE INTO THE LIGHT BEAM!

LASER CLASS 2 per IEC60825-1: 2003-10