

1) Optical axis, 2) Operating voltage



#### **Basic features**

Approval/Conformity	CE
	UKCA
	cULus
	WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference receiver	BLE 12M1PD
Series	12M
Style	Cylinder
	Straight optics
Trademark	Global
Display/Operation	
Display	LED green: Power
Electrical connection	
Connection	Connector, M12x1-Male, 4-pin
	Gold plated
Contact, surface protection	·
Polarity reversal protected	yes
Protection against device mix-ups	yes
Electrical data	
No-load current lo max. at Ue	20 mA
Operating voltage Ub	1030 VDC
Rated insulation voltage Ui	75 V DC
Rated operating voltage Ue DC	24 V

#### Environmental conditions

Ambient temperature Contamination scale	-555 ℃ 3
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms, 3x6
EN 60068-2-6, Vibration	1055 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67
Functional safety	
MTTF (40 °C)	70 a
Material	
Housing material	Brass, nickel-plated
Material sensing surface	PMMA
Surface protection	nickel-plated
Mechanical data	
Dimension	Ø 12 x 70 mm
Mounting part	Nut M12x1
Tightening torque max.	15 Nm
Optical features	
Light type	LED, red light
Principle of optical operation	Through-beam sensor (Emitter)
Wave length	660 nm

Ripple max. (% of Ue)

15 %

# Photoelectric Sensors BLS 12M-XX-1RD-S4-L Order Code: BOS00W2



Range/Distance

Range Rated operating distance Sn 0...5 m 5 m Adjustable

#### Remarks

Order accessories separately.

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.

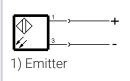
For more information about MTTF and B10d see MTTF / B10d Certificate

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 (Schematic)



## **Opto Symbols**

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