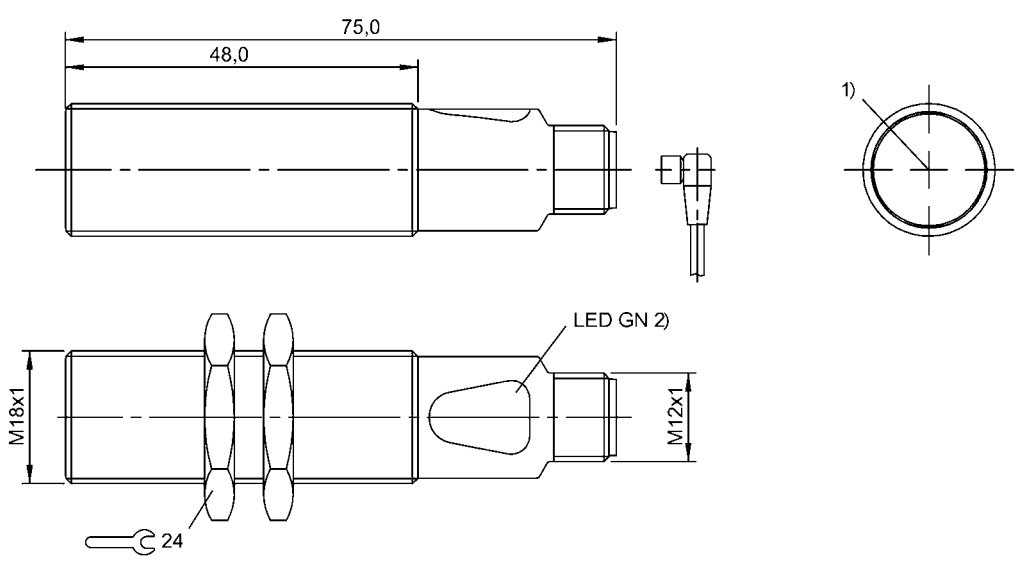


Photoelectric Sensors
BOS 18M-XI-RS30-S4
Order Code: BOS01UF



1) Optical axis, 2) Operating voltage



Basic features

Approval/Conformity	cULus CE UKCA WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference receiver	BOS 18M-PI-RE30-S4
Series	18M
Style	Cylinder Straight optics

Environmental conditions

Ambient temperature	-5...55 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms, 3x6
EN 60068-2-6, Vibration	10...55 Hz, amplitude 0.5 mm, 3x30 min
IP rating	IP67

Functional safety

MTTF (40 °C)	631 a
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Display/Operation

Adjuster	no
Display	LED green: Power

IO-Link

IO-Link Profil IDs	0x0001 SSP0
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Electrical connection

Connection	Connector, M12x1-Male, 4-pin
Contact, surface protection	Gold plated
Polarity reversal protected	yes
Protection against device mix-ups	yes

Interface

Baud rate	38.4 kBaud
Function class, smart sensor	Diagnostics Identification
Interface	IO-Link 1.1
Interface setting option	Sensor name in application
Process data OUT	Error active/inactive
Process data cycle min.	3 ms
Profile	Smart Sensor

Electrical data

No-load current I _{o max.} at U _e	40 mA
Operating voltage U _b	18...30 VDC
Protection class	II
Rated insulation voltage U _i	75 V DC
Rated operating voltage U _e DC	24 V
Ripple max. (% of U _e)	15 %

Material

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

Mechanical data

Dimension	Ø 18 x 75 mm
Mounting part	Nut M18x1
Tightening torque max.	15 Nm 30 Nm

Optical features

LED group per IEC 62471	Risk group 1
Light type	LED, red light
Principle of optical operation	Through-beam sensor (Emitter)
Wave length	626 nm

Range/Distance

Range	0...20 m
Rated operating distance Sn	20 m

Remarks

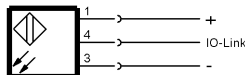
For additional information, refer to user's guide.
Order accessories separately.
For more information about MTTF and B10d see MTTF / B10d Certificate

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

