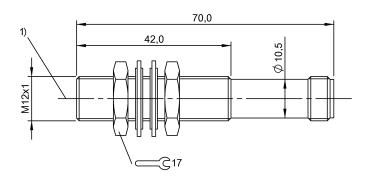
BOS 12M-XT-LS12-S4 Order Code: BOS00WN





1) Optical axis



Basic features

Approval/Conformity

CE
cULus
WEEE

Basic standard

IEC 60947-5-2

Principle of operation

Reference receiver

BOS 12M-..-LE10-..

Series

12M

Style

Cylinder

Straight optics

Electrical connection

 Connection
 Connector, M12x1-Male, 4-pin

 Contact, surface protection
 Gold plated

 Polarity reversal protected
 yes

 Protection against device mix-ups
 yes

Electrical data

Input functionTest (Emitter off)No-load current Io max. at Ue10 mAOperating voltage Ub10...30 VDCRated insulation voltage Ui75 V DCRated operating voltage Ue DC24 VRipple max. (% of Ue)10 %

Environmental conditions

Ambient temperature
-10...50 °C
Contamination scale
3
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
Protection degree
IP67
Functional safety

- unclional salety

MTTF (40 °C) 593 a

Material

Housing materialBrassMaterial sensing surfaceGlassSurface protectionnickel plated

Mechanical data

DimensionØ 12 x 70 mmMinimum gap, typ.0.5mm at 3m, R0= 6m (LS12)MountingNut M12x1Tightening torque max.15 Nm

Photoelectric Sensors

BOS 12M-XT-LS12-S4 Order Code: BOS00WN



Optical features

Laser class per IEC 60825-1

Light spot sizeØ 2.5 mm Light exitLight typeLaser red light

Principle of optical operation Through-beam sensor (Emitter)

Pulse duration t max. $3.0 \mu s$

Pulse frequency20 kHzPulse power Pp max.1.1 mW

Smallest part typ. 200 μ m at 2 m. R0 = 6 m

Wave length 650 nm

Range/Distance

Range 0...30 m
Rated operating distance Sn 30 m Adjustable

Remarks

Order accessories separately.

For additional information, refer to user's guide.

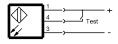
For more information about MTTF and B10d see MTTF / B10d Certificate

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