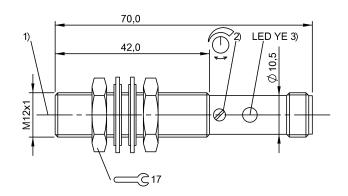
# **BOS 12M-PA-LE10-S4 Order Code: BOS00WF**





1) Optical axis, 2) Sn, 3) Output function



IND. CONT. EQ. 81U2 LISTED Class 2 Type 1





### **Basic features**

Approval/Conformity	CE cULus
	WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference emitter	BOS 12M-XT-LS12
Series	12M
Style	Cylinder
	Straight optics

## Display/Operation

Adjuster	Potentiometer 270°
Display	Output function- LED yellow
Setting	Sensitivity (Sn)

### **Electrical connection**

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

#### **Electrical data**

Load capacitance max. at Ue	0.1 μF
No-load current lo max. at Ue	15 mA
Operating voltage Ub	1030 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current le	200 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	20 ms
Ripple max. (% of Ue)	10 %
Switching frequency	1000 Hz
Turn-off delay toff max.	0.5 ms
Turn-on delay ton max.	0.5 ms
Utilization category	DC -13
Voltage drop Ud max. at le	2.5 V

### **Environmental conditions**

Ambient temperature	-1050 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms, 3x6
EN 60068-2-6, Vibration	1055 Hz, amplitude 1 mm,
	3x30 min
Protection degree	IP67
Eunctional safety	

### **Functional safety**

Subject to change without notice: 153133

/ITTF (40 °C)	251 a

#### **Photoelectric Sensors**

# **BOS 12M-PA-LE10-S4 Order Code: BOS00WF**



#### Material

Housing material Brass Material sensing surface PMMA Surface protection nickel plated

#### Mechanical data

Dimension Ø 12 x 70 mm

Minimum gap, typ. 0.5mm at 3m, R0= 6m (LS12)

Mounting Nut M12x1 Tightening torque max. 15 Nm

## **Optical features**

Ambient light max. 5000 Lux Light type Laser red light

Principle of optical operation Through-beam sensor (receiver) Smallest part typ.  $50 \mu m$  at focal point, R0 = 3 m

(LS11)

Switching function, optical Light-on dark-on

#### Output/Interface

Switching output PNP normally open (NO) PNP NC Pins 4-2

### Range/Distance

0...30 m Range Rated operating distance Sn 3 m Adjustable depends on emitter Temperature drift max. (% of Sr) compensated

# Remarks

Order accessories separately.

The sensor is functional again after the overload has been eliminated.

Actuation object (target): gray card, 200 x 200, lateral approach.

For additional information, refer to user's guide.

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

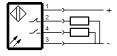
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Subject to change without notice: 153133

## **Connector Drawings**



## **Wiring Diagrams**



## **Opto Symbols**

