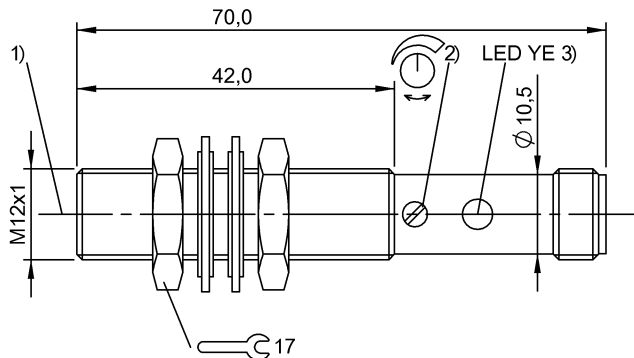
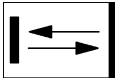


BOS 12M-PS-1PD-S4-C
Ordering code: BOS0045

Diffuse sensor
Series 12M
Working Range: 0...400 mm

PNP (1x), NO (pin 4)
Infrared
DC, direct current

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sensors worldwide



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

Characteristic data

Operating voltage	10...30 V DC
Connection	Connector, M12x1-S04
Switching freq. f max.	200 Hz
Indicator	Output function - LED YE
Setting	Switching distance (Sn)
Adjuster	Potentiometer 270° (1x)
Short-circuit protected	yes
Protected against polarity reversal	yes
Enclosure Type per IEC 60529	IP67

Optical data

Principle of optical operation	Light scanner, energetic
Switching function, optical	NO: light-on
Light type	Infrared
Ambient light max.	2,000 Lux

Electrical data

Rated operating voltage Ue DC	24 V
Effective operating current Ie	200 mA
Rated insulation voltage Ui	75 V DC
Load capacitance max. (at Ue)	1 µF
Ripple max. (% of Ue)	15
Switching output	PNP (1x)
Switching function	NO (pin 4)
Turn-off delay toff max.	2,5 ms
Turn-on delay ton max.	2,5 ms

No-load current max. Io at Ue
Voltage drop Ud max. (at Ie)

20 mA
2,5 V

Mechanical data

Eff. switching distance Sr	400 mm
Capture range Sd	0...400 mm
Beam characteristic	Divergent
Range Sn	Sn = 400 mm, adjustable
Minimum operating distance	0 mm
Connector type	M12x1-S04
Sensing surface material	PMMA
Housing material	Brass
Oberflächenschutz	Nickel-plated
Mounting type	Nut M12x1
Design	Cylinder, straight optics
Ambient temperature	-5...55 °C
Tightening torque	15 Nm

Basic data

Basic standard IEC 60947-5-2
The sensor is functional again after the overload has been eliminated.
Reference object (target): Gray card, 200 x 200, 90 % remission, axial approach.
Only for NFPA 79 applications (machines with a supply voltage of maximum 600 volts). Device shall be connected only by using any R/C (CYJV2) cord, having suitable ratings.
Order accessories separately.

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