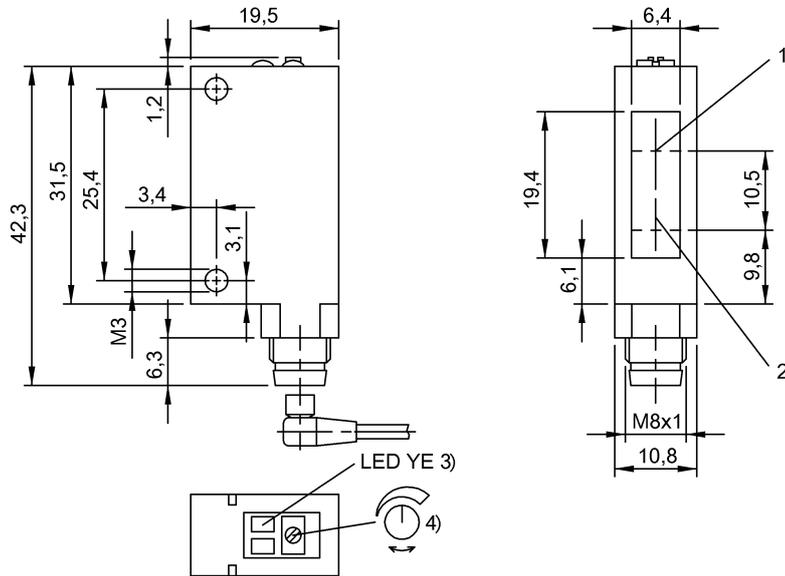
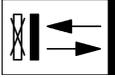


BOS 5K-PS-RH12-S75
Ordering code: BOS012A

Diffuse sensor
 Series 5K
 Working Range: 40...200 mm

PNP (1x), NO (pin 4)
 LED, red light
 DC, direct current

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1) Optical axis receiver, 2) Optical axis emitter, 3) Output function, 4) Sn

Characteristic data

Operating voltage	10...30 V DC
Connection	Connector, M8x1-S75
Switching freq. f max.	500 Hz
Indicator	Output function - LED YE
Setting	Switching distance (Sn)
Adjuster	Potentiometer 270° (1x)/Potentiometer 6-turn (1x)
Short-circuit protected	yes
Protected against polarity reversal	yes
Enclosure Type per IEC 60529	IP67

Optical data

Principle of optical operation	Light scanner, triangulation
Switching function, optical	NO: light-on
Light type	LED, red light
Wavelength	660 nm
Ambient light max.	5,000 Lux
Optical special feature	Background suppression

Electrical data

Rated operating voltage Ue DC	24 V
Effective operating current Ie	100 mA
Ripple max. (% of Ue)	8
Switching output	PNP (1x)
Switching function	NO (pin 4)
Turn-off delay toff max.	1 ms

Turn-on delay ton max.	1 ms
No-load current max. Io at Ue	30 mA
Voltage drop Ud max. (at Ie)	2 V

Mechanical data

Eff. switching distance Sr	200 mm
Capture range Sd	40...200 mm
Range Sn	Sn = 200 mm, adjustable
Minimum operating distance	40 mm
Connector type	M8x1-S75
Sensing surface material	PC
Housing material	PC, PBT
Mounting type	Screw M3
Design	Block, 90° connection
Ambient temperature	-25...55 °C

Basic data

Basic standard IEC 60947-5-2
 The sensor is functional again after the overload has been eliminated.
 Reference object (target): Gray card, 100 x 100 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.
 For additional information, refer to user's guide.
 Order accessories separately.

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