

BOS 5K-PS-RR10-S75

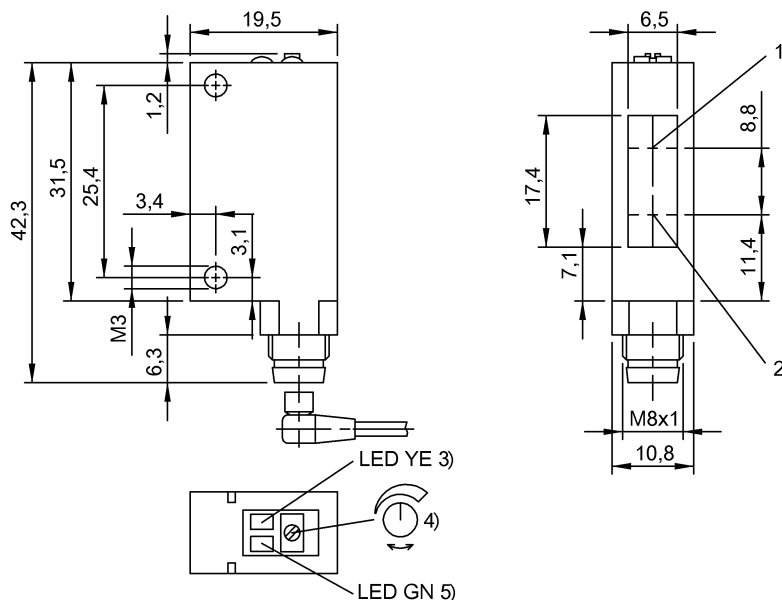
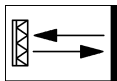
Ordering code: BOS012E

Retroreflective sensor
Series 5K
Working Range: 0...4 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, 5) Stability

Characteristic data

Operating voltage	10...30 V DC
Connection	Connector, M8x1-S75
Switching freq. f max.	500 Hz
Indicator	Stability - LED GN
Setting	Sensitivity (Sn)
Adjuster	Potentiometer 270° (1x)
Reference reflector	BOS R-1
Short-circuit protected	yes
Protected against polarity reversal	yes
Enclosure Type per IEC 60529	IP67

Optical data

Principle of optical operation	Retro-reflective sensor
Switching function, optical	NO: dark-on
Light type	LED, red light
Wavelength	660 nm
Ambient light max.	5,000 Lux
Polarising filter	yes

Electrical data

Rated operating voltage U _e DC	24 V
Effective operating current I _e	100 mA
Ripple max. (% of U _e)	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. I _o at U _e	30 mA
Voltage drop U _d max. (at I _e)	1,2 V

Mechanical data

Eff. switching distance S _r	4000 mm
Operating range R _o	0...4 m
Range S _n	S _n = 4 m, adjustable
Connector type	M8x1-S75
Sensing surface material	PMMA
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.
Polarizing filters prevent spurious switching due to reflecting and shiny parts.
Operating object (test target): Gray card, 200 x 200, 90 % remission, lateral approach, direction of movement vertical to plane of lens axes.
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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