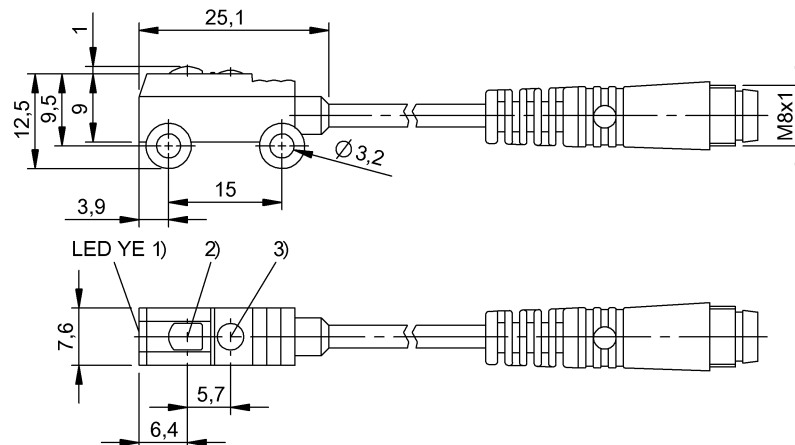
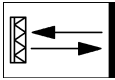


BOS 2K-PS-PR10-00,2-S49
Ordering code: BOS00ZR

Retroreflective sensor
Series 2K
Working Range: 0...800 mm

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

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1) Light reception/Limit range, 2) Optical axis receiver, 3) Optical axis emitter

Characteristic data

Operating voltage	10...30 V DC
Connection	Cable with connector, M8x1-S49, 0,2m, PVC
Switching freq. f max.	800 Hz
Indicator	Limit range - LED YE, flash.
Reference reflector	BOS R-9
Short-circuit protected	yes
Protected against polarity reversal	yes
Enclosure Type per IEC 60529	IP67
Protection class	III

Optical data

Principle of optical operation	Retro-reflective sensor
Switching function, optical	NO: dark-on
Light spot size, typical	Ø10 mm at 100 mm
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	50 mA
Rated insulation voltage U _i	50 V DC
Ripple max. (% of U _e)	20
Switching output	PNP (1x)

Switching function	NO
Turn-off delay t _{off} max.	0,63 ms
Turn-on delay t _{on} max.	0,63 ms
No-load current max. I _o at U _e	20 mA
Voltage drop U _d max. (at I _e)	2,5 V

Mechanical data

Eff. switching distance S _r	800 mm
Operating range R _o	0...800 mm
Range S _n	S _n = 800 mm
Blind zone	40 mm
Connector type	M8x1-S49
Cable length	0,2 m
Cable jacket material	PVC
Sensing surface material	PMMA
Housing material	ABS
Mounting type	Screw M3
Design	Block, 90° connection
Ambient temperature	-20...50 °C

Basic data

Basic standard	IEC 60947-5-2
The sensor is functional again after the overload has been eliminated.	
Operating object (test target): Gray card, 200 x 200, 90 % remission, lateral approach, direction of movement vertical to plane of lens axes.	
For additional information, refer to user's guide.	
Order accessories separately.	

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