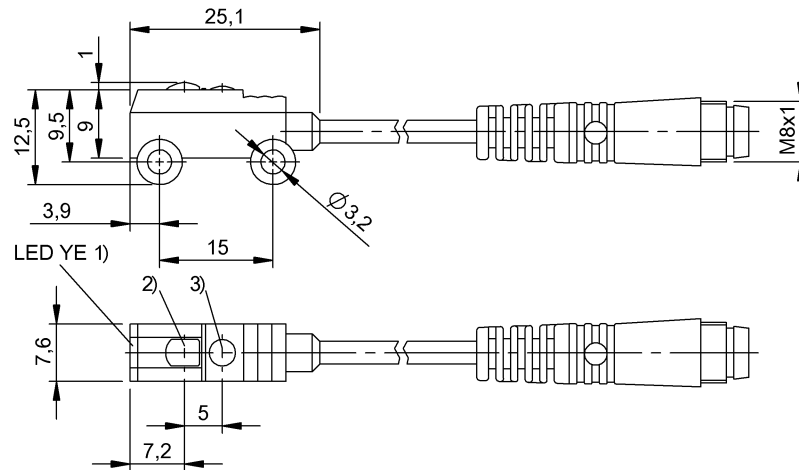
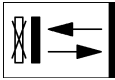


BOS 2K-PS-RH10-00,2-S49
Ordering code: BOS0103

Diffuse sensor
Series 2K
Working Range: 1...15 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.
Short-circuit protected	yes
Protected against polarity reversal	yes
Enclosure Type per IEC 60529	IP67
Protection class	III

Optical data

Principle of optical operation	Light scanner, triangulation
Switching function, optical	NO: light-on
Light spot size, typical	Ø1.2 mm at focal point
Light type	LED, red light
Wavelength	660 nm
Ambient light max.	5,000 Lux
Optical special feature	Background suppression

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	15 mm
Capture range S _d	1...15 mm
Beam characteristic	Focus typ. at 7.5 mm
Range S _n	S _n = 15 mm
Minimum operating distance	1 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.	
Reference object (target): Gray card, 100 x 100 90 % remission, axial approach.	
For additional information, refer to user's guide.	
Order accessories separately.	

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