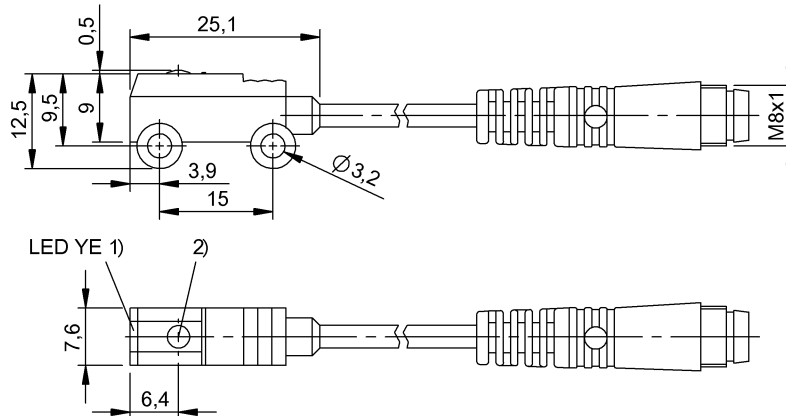
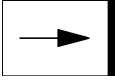


**BOS 2K-PS-RE10-00,2-S49**  
**Ordering code: BOS0100**

Through-beam sensor  
 Series 2K  
 Working Range: 0...1,2 mm

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

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1) Light reception, 2) Optical axis

**Characteristic data**

Operating voltage	10...30 V DC
Connection	Cable with connector, M8x1-S49, 0,2m
Switching freq. f max.	200 Hz
Indicator	Light receipt - LED YE
Reference emitter	BOS 2K-X-RS10-..
Short-circuit protected	yes
Protected against polarity reversal	yes
Enclosure Type per IEC 60529	IP67
Protection class	III

**Optical data**

Principle of optical operation	Receiver
Switching function, optical	NO: dark-on
Light type	LED, red light
Ambient light max.	5,000 Lux

**Electrical data**

Rated operating voltage Ue DC	24 V
Effective operating current Ie	50 mA
Rated insulation voltage Ui	50 V DC
Ripple max. (% of Ue)	20
Switching output	PNP (1x)
Switching function	NO

Turn-off delay toff max.	2,5 ms
Turn-on delay ton max.	2,5 ms
No-load current max. I <sub>o</sub> at U <sub>e</sub>	10 mA
Voltage drop U <sub>d</sub> max. (at I <sub>e</sub> )	2,5 V

**Mechanical data**

Eff. switching distance S <sub>r</sub>	1200 mm
Operating range R <sub>o</sub>	0...1.2 m
Range S <sub>n</sub>	S <sub>n</sub> = 1.2 m
Connector type	M8x1-S49
Cable length	0,2 m
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, lateral approach  
 For additional information, refer to user's guide.  
 Order accessories separately.



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