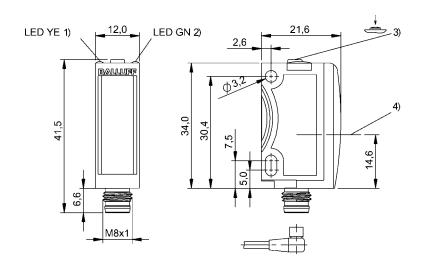
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1) Output function, 2) Operating voltage, 3) Sensitivity, light/dark, 4) Optical axis







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Approval/Conformity	CE
	cULus
	WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference reflector	BOS R-22
Series	6K
Style	Square
	Connection 90°

Display/Operation

Adjuster	button
Display	Output function- LED yellow LED green: Power
Setting	Light-on/dark-on Sensitivity (Sn) Teach mode Stand./Dyn./Refl.

Electrical connection

Connection	Connector, M8x1-Male, 4-pin
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Input function	Same function as button
	Key disable on/off
No-load current lo max. at Ue	30 mA
Operating voltage Ub	1030 VDC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Ripple max. (% of Ue)	12 %
Switching frequency	4000 Hz
Turn-off delay toff max.	0.13 ms
Turn-on delay ton max.	0.13 ms
Voltage drop Ud max. at le	2.4 V

Environmental conditions

Environmental conditions	
Ambient temperature	-2060 °C
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms, 3x6
EN 60068-2-6, Vibration	1055 Hz, amplitude 0.5 mm,
	3x30 min
IP rating	IP67
IP rating per DIN 40050	IP69K
Functional safety	
MTTF (40 °C)	432 a
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Interface

Switching output	PNP normally open/normally
	closed (NO/NC)

Photoelectric Sensors

BOS 6K-PU-LK10-S75 Order Code: BOS01M4



Material

Housing material ABS Material sensing surface **PMMA**

Mechanical data

12 x 41.5 x 21.6 mm Dimension Mounting part Screw M3

Optical features

Ambient light max. 5000 Lux Average power Po max. 390 µW Collimated Beam characteristic Laser class per IEC 60825-1

Light spot size Ø 2 mm at 2.5 m Light type Laser red light Polarizing filter yes

Principle of optical operation Retroreflective sensor

Pulse duration t max. 3000 µs Pulse frequency 5 kHz Special optical feature Coaxial optics Switching function, optical dark-on/light-on Wave length 650 nm

Range/Distance

0...4 m Range Rated operating distance Sn 4 m Adjustable

Remarks

Do not press key using a pointed tool.

Order accessories separately.

For additional information, refer to user's guide.

Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Use an R/C (CYJV2) cable with suitable properties for attaching the

When using as a UL product the ambient temperature Ta max. must not exceed 50°C.

Actuation object (target): gray card, 200 x 200, 90 % remission, lateral approach, approach direction vertical to lens axis plane.

The sensor is functional again after the overload has been eliminated.

For more information about MTTF and B10d see MTTF / B10d Certificate

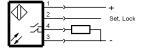
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Subject to change without notice: 226385

Connector Drawings



Wiring Diagrams



Photoelectric Sensors BOS 6K-PU-LK10-S75 Order Code: BOS01M4

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Opto Sy	mbols
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Warning Symbols



LASER CLASS 1 per IEC 60825-1