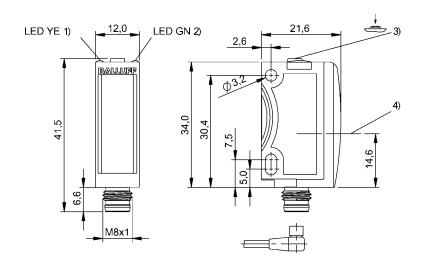
BYLLUFF



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







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Basic features	
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	Sensitivity (Sn) Light-on/dark-on Teach mode Stand./Dyn./Refl.

Electrical connection

Connection	Connector, M8x1-Male, 3-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

MTTF (40 °C)	432 a
Functional safety	
IP rating per DIN 40050	IP69K
IP rating	IP67
	3x30 min
EN 60068-2-6, Vibration	1055 Hz, amplitude 0.5 mm,
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms, 3x6
Ambient temperature	-2060 °C
Environmental conditio	110

Interface

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

Photoelectric Sensors

BOS 6K-PU-LK10-S49 Order Code: BOS01MN



Material

Housing materialABSMaterial sensing surfacePMMA

Mechanical data

 Dimension
 12 x 41.5 x 21.6 mm

 Mounting part
 Screw M3

Optical features

Light spot sizeØ 2 mm at 2.5 mLight typeLaser red lightPolarizing filteryes

Principle of optical operation Retroreflective sensor

Pulse duration t max.3000 μsPulse frequency5 kHzSpecial optical featureCoaxial opticsSwitching function, opticaldark-on/light-onWave length650 nm

Range/Distance

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

Remarks

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

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

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

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 device.

For additional information, refer to user's guide.

Order accessories separately.

Do not press key using a pointed tool.

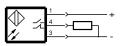
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

Connector Drawings



Wiring Diagrams



Photoelectric Sensors BOS 6K-PU-LK10-S49 Order Code: BOS01MN



Opto Symbo	ls
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Warning Symbols



LASER CLASS 1 per IEC 60825-1

Subject to change without notice: 226404