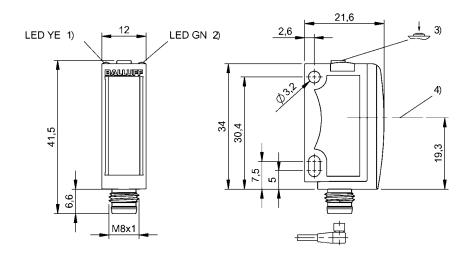
BYLLUFF



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-9	
Series	6K	
Style	Square	
	Connection 90°	

Short-circuit protection

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 Polarity reversal protected	Connector, M8x1-Male, 3-pin yes

yes

Electrical data

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	1000 Hz
Turn-off delay toff max.	0.5 ms
Turn-on delay ton max.	0.5 ms
Voltage drop Ud max. at le	2.4 V

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)	514 a
Interface	
Switching output	PNP normally open/normally

closed (NO/NC)

Photoelectric Sensors

BOS 6K-PU-PT10-S49 Order Code: BOS01L7

BYLLUFF

Material

Housing material ABS Material sensing surface

Mechanical data

Dimension Mounting part **PMMA**

Screw M3

12 x 41.5 x 21.6 mm

Optical features

Ambient light max. 5000 Lux Beam characteristic Divergent Blind zone 0 mm

Light spot size 50 x 50 mm at 2 m Light type LED, red light

Polarizing filter yes

Principle of optical operation Retroreflective sensor Special optical feature Coaxial optics

Transparency detection

Switching function, optical dark-on/light-on Wave length 660 nm

Range/Distance

0...2 m Range Rated operating distance Sn 2 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 device.

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.

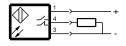
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

Connector Drawings



Wiring Diagrams



Opto Symbols

