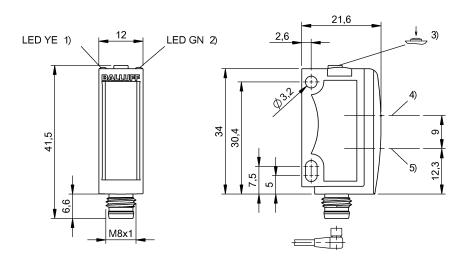
Photoelectric Sensors BOS 6K-PU-LH10-S75 Order Code: BOS01LE





1) Output function, 2) Operating voltage, 3) Sn, light/dark, 4) Optical axis receiver, 5) Optical axis emitter



Basic features

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

Display/Operation

Adjuster	button	
Display	Output function- LED yellow	Environme
Setting	LED green: Power Rated switching distance (Sn)	Ambient tempe
Setting	Light-on/dark-on	EN 60068-2-27,
	Teach mode Stand./Dyn./Obj.	EN 60068-2-6, V
Electrical connection		IP rating IP rating per DII
Connection	Connector, M8x1-Male, 4-pin	
Polarity reversal protected	yes	Functional
Short-circuit protection	yes	MTTF (40 °C)

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	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 conditior	IS
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
Interface	
Switching output	PNP normally open/normally closed (NO/NC)

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Ontical features

Material		Optical features		
Housing material	ABS	Ambient light max.	5000 Lux	
Material sensing surface	PMMA	Average power Po max.	390 μW	
		Beam characteristic	Focused	
Mechanical data		Laser class per IEC 60825-1	1	
Dimension12 x 41.5 x 21.6 mmMounting partScrew M3	10 11 5 01 6	Light spot size	Ø 1.2 mm at 120 mm	
		Light type	Laser red light	
	Screw M3	Principle of optical operation	Diffuse sensor, triangulation	
		Pulse duration t max.	3000 μs	
		Pulse frequency	5 kHz	
		Pulse power Pp max.	3.5 mW	
		Special optical feature	Background suppression	
		Switching function, optical	Light/dark switching	
		Wave length	650 nm	
		Range/Distance		
		Distance deviation 18 % max (% of	7.0/ to 00.0/ rom	

Distance deviation 18 % max. (% of 7 % to 90 % rem. Sr) 4...120 mm Range Rated operating distance Sn 120 mm Adjustable

Remarks

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

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.

Reference object (target): gray card, 200 x 200, 90 % remission, axial approach.

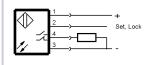
For more information about MTTF and B10d see MTTF / B10d Certificate

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



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Opto Symbols

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Warning Symbols



