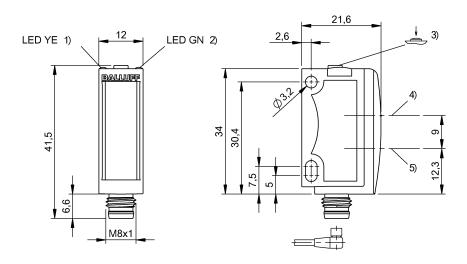
Photoelectric Sensors BOS 6K-PU-PR10-S75 Order Code: BOS01MJ





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



Basic features

cULus	Input function	Key disable on/off Same function as button
	No-load current to may at the	30 mA
WEEE		1030 VDC
IEC 60947-5-2	1 0 0	100 mA
Photoelectric sensor	1 0	24 V
6K	1 0 0	24 V 12 %
Square		
Connection 90°		1000 Hz
	•	0.5 ms
		0.5 ms
	Voltage drop Ud max. at le	2.4 V
button		
Output function- LED yellow	Environmental conditions	
LED green: Power	Ambient temperature	-2060 °C
Sensitivity (Sn)	·	Half-sinus, 30 g _n , 11 ms, 3x6
Light-on/dark-on Teach mode Stand./Dyn.	EN 60068-2-6, Vibration	1055 Hz, amplitude 0.5 mm, 3x30 min
	IP rating	IP67
	IP rating per DIN 40050	IP69K
Connector, M8x1-Male, 4-pin		
yes	Functional safety	
yes	MTTF (40 °C)	499 a
	Interface	
	CE EAC WEEE IEC 60947-5-2 Photoelectric sensor 6K Square Connection 90° button Output function- LED yellow LED green: Power Sensitivity (Sn) Light-on/dark-on Teach mode Stand./Dyn.	CE EAC WEEE IEC 60947-5-2 Photoelectric sensor 6K Square Connection 90° Dutton Output function- LED yellow LED green: Power Sensitivity (Sn) Light-on/dark-on Teach mode Stand./Dyn. Prating IP rating IP rating per DIN 40050 Connector, M8x1-Male, 4-pin yes yes

Switching output

Electrical data

closed (NO/NC)

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Ontical features

Material		Optical features	
Housing material	ABS	Ambient light max.	5000 Lux
Material sensing surface	PMMA	Beam characteristic	Divergent
		Blind zone	100 mm
Mechanical data		Light spot size	600 x 600 mm at 7 m
Dimension Mounting part	12 x 41.5 x 21.6 mm Screw M3	Light type	LED, red light
		Polarizing filter	yes
		Principle of optical operation	Retroreflective sensor
		Switching function, optical	dark-on/light-on
		Wave length	660 nm
		Range/Distance	
		Range	06 m

Rated operating distance Sn

6 m Adjustable

Remarks

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.

Do not press key using a pointed tool.

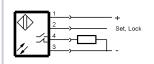
For more information about MTTF and B10d see MTTF / B10d Certificate

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



Opto Symbols