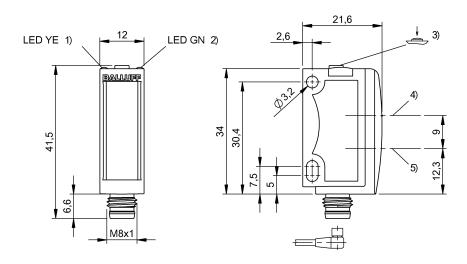
Photoelectric Sensors BOS 6K-PU-RD10-S75 Order Code: BOS01LL





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



Basic features

Approval/Conformity	cULus	
	CE	
	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
	LED green: Power
Setting	Light-on/dark-on
	Rated switching distance (Sn)
	Teach mode Stand./Dyn./Obj.
	Teach mode Stand./Dyn./Obj.
Electrical connection	Teach mode Stand./Dyn./Obj.
Electrical connection	Teach mode Stand./Dyn./Obj. Connector, M8x1-Male, 4-pin

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
Protection class	II
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)	499 a
Interface	
Switching output	PNP normally open/normally closed (NO/NC)

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Optical features

Material		Optical features	
Housing material	ABS	Ambient light max.	5000 Lux
Material sensing surface	PMMA	Beam characteristic	Divergent
		Light spot size	20 x 20 mm at 180 mm
Mechanical data		Light type	LED, red light
		Principle of optical operation	Diffuse sensor, energetic
Dimension	12 x 41.5 x 21.6 mm	Switching function, optical	Light/dark switching
Mounting part	Screw M3	Wave length	660 nm
		Range/Distance	
		Hysteresis H max. (% of Sr)	10.0 %
		Range	0800 mm
		Rated operating distance Sn	800 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.

Do not press key using a pointed tool.

Order accessories separately.

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

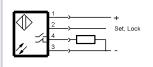
For more information about MTTF and B10d see MTTF / B10d Certificate

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



Opto Symbols

|←