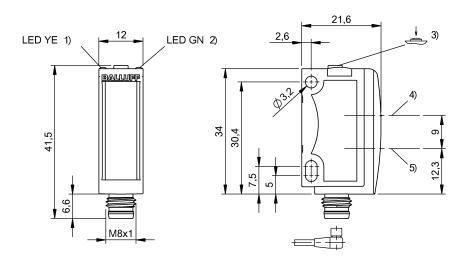
Photoelectric Sensors BOS 6K-PU-RH10-S49 Order Code: BOS01KW





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	Ambient tem
Display	Output function- LED yellow LED green: Power	EN 60068-2-2
Setting	Rated switching distance (Sn) Light-on/dark-on Teach mode Stand./Dyn./Obj.	EN 60068-2-6 IP rating IP rating per
Electrical connection		- Function
Connection	Connector, M8x1-Male, 3-pin	Function
Polarity reversal protected	yes	MTTF (40 °C)
Short-circuit protection	yes	
		Interface

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

-2060 °C
Half-sinus, 30 g _n , 11 ms, 3x6
1055 Hz, amplitude 0.5 mm, 3x30 min
IP67
IP69K
476 a
PNP normally open/normally closed (NO/NC)

Photoelectric Sensors BOS 6K-PU-RH10-S49 Order Code: BOS01KW



200 mm Adjustable

Ontical features

Rated operating distance Sn

Material	rial Optical features		
Housing material	ABS	Ambient light max.	5000 Lux
Material sensing surface	PMMA	Beam characteristic	Focus, typical at 50 mm
		Light spot size	5 x 5 mm at focal point
Mechanical data		Light type	LED, red light
Dimension12 x 41.5 x 21.6 mmMounting partScrew M3	Principle of optical operation	Diffuse sensor, triangulation	
		Special optical feature	Background suppression
		Switching function, optical	Light/dark switching
		Wave length	640 nm
		Range/Distance	
		Distance deviation 18 % max. (% of Sr)	5 %
		Range	1200 mm

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.

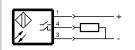
For more information about MTTF and B10d see MTTF / B10d Certificate

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



Opto Symbols

≬| ↓