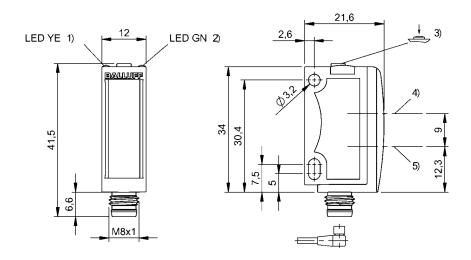
BOS 6K-PU-LH10-S75 Order Code: BOS01LE

BYLLUFF



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







Ba	sic	feat	ures

Badio roataroo	
Approval/Conformity	CE
	cULus
	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	Rated switching distance (Sn)
	Light-on/dark-on
	Teach mode Stand./Dyn./Obj.

Electrical connection

Connector, M8x1-Male, 4-pin
yes
yes

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 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)	432 a

Interface

Switching output	PNP normally open/normally
	closed (NO/NC)

Photoelectric Sensors

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

BYLLUFF

Material

Housing materialABSMaterial sensing surfacePMMA

Mechanical data

 Dimension
 12 x 41.5 x 21.6 mm

 Mounting part
 Screw M3

Optical features

Light spot sizeØ 1.2 mm at 120 mmLight typeLaser red light

Principle of optical operation Diffuse sensor, triangulation

 $\begin{array}{ll} \mbox{Pulse duration t max.} & 3000 \ \mbox{μs} \\ \mbox{Pulse frequency} & 5 \ \mbox{kHz} \\ \mbox{Pulse power Pp max.} & 3.5 \ \mbox{mW} \end{array}$

 Special optical feature
 Background suppression

 Switching function, optical
 Light/dark switching

Wave length 650 nm

Range/Distance

Distance deviation 18 % max. (% of Sr)7 % to 90 % rem.Range4...120 mmRated operating distance Sn120 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.

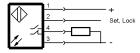
For more information about MTTF and B10d see MTTF / B10d Certificate

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



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

BYLLUFF

\sim		\circ			
	nto.	~1	m	\mathbf{n}	IC.
v	pto	U	/	\mathbf{D}	J



Warning Symbols



LASER CLASS 1 per IEC 60825-1