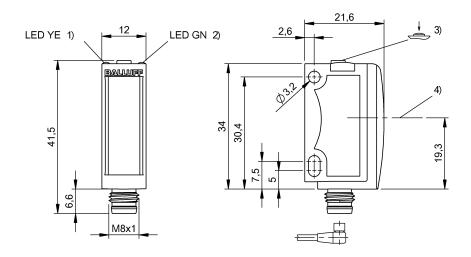
BALLUFF



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







Ph. 1	110	4.1
men	12//// 1	peration

Adjuster	button
Display	Output function- LED yellow
	LED green: Power
Setting	Light-on/dark-on
	Sensitivity (Sn)
	Teach mode Stand./Dyn./Refl.

Electrical connection

Connection	Connector, M8x1 connector, 4-pin
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Input function	Key disable on/off
	Same function as button
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

MTTF (40 °C)	514 a
Functional safety	
IP rating per DIN 40050	IP69K
IP rating	IP67
	3x30 min
EN 60068-2-6, Vibration	1055 Hz, amplitude 0.5 mm,
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms, 3x6
Ambient temperature	-2060 °C

General data	
Approval/Conformity	cULus
	CE
	EAC
	WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference reflector	BOS R-22
Series	6K
Style	Square
	Connection 90°
Material	
Housing material	ABS
Material sensing surface	PMMA
3	

Photoelectric Sensors

BOS 6K-PU-PT10-S75 Order Code: BOS01L8



Mechanical data

Dimension 12 x 41.5 x 21.6 mm

Mounting Screw M3

Output/Interface

Switching output PNP normally open/normally

closed (NO/NC)

Optical data

Ambient light max.5000 LuxBeam characteristicDivergentBlind zone0 mm

Light spot size50 x 50 mm at 2 mLight typeLED, red light

Polarizing filter yes

Principle of optical operation Retroreflective sensor

Special optical feature Coaxial optics

Transparency detection

Switching function, optical dark-on/light-on

Wave length 660 nm

Range/Distance

Range

Rated operating distance Sn

2 m Adjustable

0...2 m

Remarks

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

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.

Do not press key using a pointed tool.

Actuation object (target): gray card, 200 x 200, 90 % remission, lateral approach, approach direction vertical to lens axis plane.

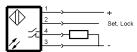
For further information about the MTTF and B10d see MTTF / B10d certificate

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-PT10-S75 Order Code: BOS01L8



Opto Symbols

