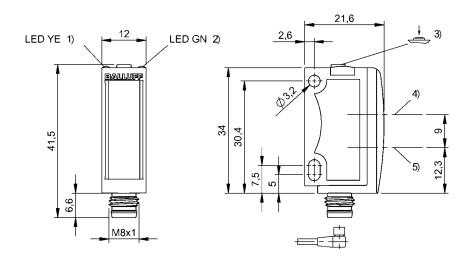
# BYLLUFF



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







Basic featur	29

Basic reatures	
Approval/Conformity	cULus
	CE
	WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference emitter	BOS 6KLS10
Series	6K
Style	Square
	Connection 90°
Display/Operation	
Display/ Operation	

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

#### Electrical connection

Connection	Connector, M8x1-Male, 4-pin
Polarity reversal protected	yes
Short-circuit protection	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	2000 Hz
Turn-off delay toff max.	0.25 ms
Turn-on delay ton max.	0.25 ms
Voltage drop Ud max. at le	2.4 V

#### Environmental conditions

-2060 °C
Half-sinus, 30 g <sub>n</sub> , 11 ms, 3x6
1055 Hz, amplitude 0.5 mm,
3x30 min
IP67
IP69K
519 a

### Interface

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

#### Photoelectric Sensors

# BOS 6K-PU-LE10-S75 Order Code: BOS01LW



#### Material

Housing materialABSMaterial sensing surfacePMMA

Mechanical data

 Dimension
 12 x 41.5 x 21.6 mm

 Mounting part
 Screw M3

## Optical features

Ambient light max. 5000 Lux Laser class per IEC 60825-1 1

**Light type** Laser red light

Principle of optical operation Through-beam sensor (receiver)

Switching function, optical dark-on/light-on

#### Range/Distance

Range0...18 mRated operating distance Sn18 m Adjustable

#### Remarks

When using as a UL product the ambient temperature Ta max. must not exceed 50°C.

Do not press key using a pointed tool.

For additional information, refer to user's guide.

Order accessories separately.

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.

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

Actuation object (target): gray card, 200 x 200, lateral approach.

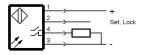
For more information about MTTF and B10d see MTTF / B10d Certificate

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



Subject to change without notice: 226378