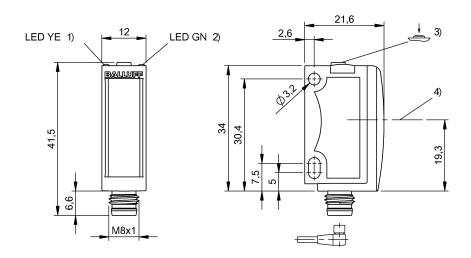
# BOS 6K-PU-PT10-S75 Order Code: BOS01L8





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



Approval/Conformity

CE
EAC
WEEE

Basic standard

IEC 60947-5-2

Principle of operation

Reference reflector

BOS R-22

Series

6K

Style

Square
Connection 90°

# Display/Operation

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-Male, 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 10...30 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
 -20...60 °C

 EN 60068-2-27, Shock
 Half-sinus, 30 gn, 11 ms, 3x6

 EN 60068-2-6, Vibration
 10...55 Hz, amplitude 0.5 mm, 3x30 min

 IP rating
 IP67

 IP rating per DIN 40050
 IP69K

# **Functional safety**

MTTF (40 °C) 514 a

### Interface

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

### **Photoelectric Sensors**

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

# BVLLUFF

### Material

Housing material ABS Material sensing surface PMMA

### Mechanical data

Dimension 12 x 41.5 x 21.6 mm Mounting part Screw M3

### **Optical features**

Ambient light max. 5000 Lux Beam characteristic Divergent Blind zone 0 mm

Light spot size 50 x 50 mm at 2 m Light type LED, 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

0...2 m Range Rated operating distance Sn 2 m Adjustable

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

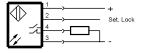
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Subject to change without notice: 226359

## **Connector Drawings**



# **Wiring Diagrams**



# **Opto Symbols**

