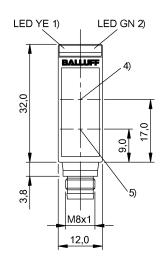
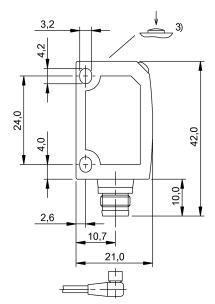
# BOS 6K-PU-1QC-S75-C Order Code: BOS00AJ

# BALLUFF





1) Light reception, 2) Stability, 3) Sn, light/dark, 4) Optical axis receiver, 5) Optical axis emitter







### **Basic features**

Approval/Conformity	cULus
	CE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference reflector	BOS R-9
Series	6K
Style	Square
	Connection 90°

## Display/Operation

Adjuster	button
•	
Display	LED yellow: Light received
	Stability - LED green
Setting	Sensitivity (Sn)
	Light-on/dark-on
	Factory setting (Reset)

### **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	25 mA
Operating voltage Ub	1030 VDC
Protection class	II
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
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 gn, 11 ms, 3x6
EN 60068-2-6, Vibration	1055 Hz, amplitude 0.5 mm,
	3x30 min
Protection degree	IP67
Material	

#### Material

Housing material	ABS
Material sensing surface	PMMA

## Mechanical data

Dimension	12 x 42 x 21 mm
Mounting	Screw M3

# **Photoelectric Sensors**

# BOS 6K-PU-1QC-S75-C Order Code: BOS00AJ



# **Optical features**

Ambient light max.5000 LuxBeam characteristicDivergentBlind zone50 mm

**Light spot size** 75 x 75 mm at 150 mm

**Light type** LED, red light

Polarizing filter yes

Principle of optical operation Retroreflective sensor
Switching function, optical dark-on/light-on

Wave length 660 nm

## Output/Interface

Switching output PNP normally open/normally

closed (NO/NC)

#### Range/Distance

Range 0...3 m
Rated operating distance Sn 3 m Adjustable

#### Remarks

For additional information, refer to user's guide.

Order accessories separately.

Do not press key using a pointed tool.

Polarizing filters prevent spurious switching due to reflecting and shiny parts.

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

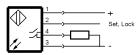
The sensor is functional again after the overload has been eliminated.

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

# **Connector Drawings**



# **Wiring Diagrams**



# **Opto Symbols**

