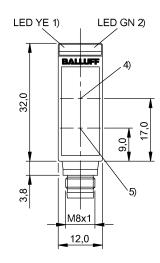
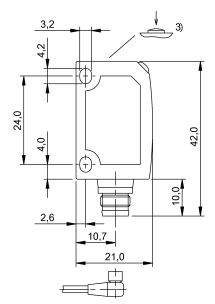
BOS 6K-PU-1HA-S75-C Order Code: BOS009Y

BALLUFF





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











Basic features

Approval/Conformity	CE
	cULus
	EAC
	WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Series	6K
Style	Square
	Connection 90°

Display/Operation

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

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	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	
Housing material	ABS

Mechanical data

Dimension	12 x 42 x 21 mm
Mounting	Screw M3

BOS 6K-PU-1HA-S75-C Order Code: BOS009Y



Optical features

Light spot size 5 x 5 mm at 60 mm
Light type LED, red light

Principle of entired energtion Diffuse sensor trips

Principle of optical operation

Special optical feature

Switching function, optical

Light/dark switching

640 nm

Output/Interface

Switching output PNP normally open/normally

closed (NO/NC)

Range/Distance

Distance deviation 18 % max. (% of

7 % to 90 % rem.

Sr)

Range25...100 mmRated operating distance Sn100 mm Adjustable

Remarks

Wave length

For additional information, refer to user's guide.

Order accessories separately.

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

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.

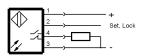
Do not press key using a pointed tool.

Reference object (target): gray card, 200 x 200, 18 % remission, axial approach.

Connector Drawings



Wiring Diagrams



Opto Symbols

