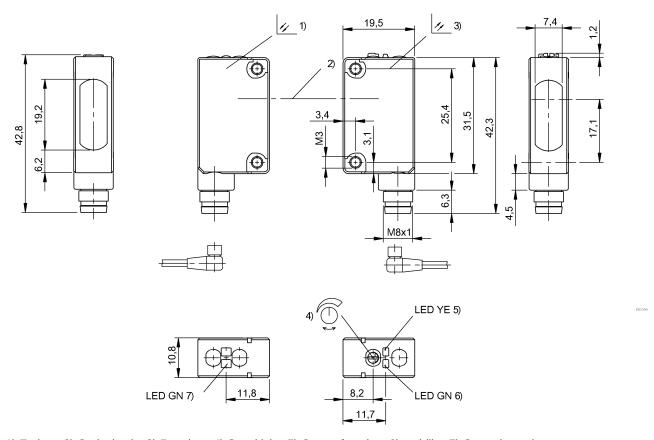
BALLUFF



1) Emitter, 2) Optical axis, 3) Receiver, 4) Sensitivity, 5) Output function, 6) stability, 7) Operating voltage





IND. CONT. EQ
US 31MY
for use in the secondary of
a class 2 source of supply





Basic features

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

Adjuster	Potentiometer 270°
Display	Output function- LED yellow
	LED green: Power
	Stability - LED green
Setting	Sensitivity (Sn)

Electrical connection

Connection

Polarity reversal protected Short-circuit protection	yes yes
Electrical data	
Operating voltage Ub	1030 VDC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	100 ms
Ripple max. (% of Ue)	10 %
Switching frequency	500 Hz
Turn-off delay toff max.	1 ms
Turn-on delay ton max.	1 ms
Voltage drop Ud max. at le	2 V

Connector, M8x1-Male, 4-pin

Photoelectric Sensors

BOS 5K-PS-IX10-S75 Order Code: BOS0126



Environmental conditions

-25...55 °C Ambient temperature

EN 60068-2-27, Shock Half-sinus, 50 gn, 11 ms, 3x10 EN 60068-2-6, Vibration 10...55 Hz, amplitude 0.75 mm,

3x20 min

Protection degree

IP67

Functional safety

MTTF (40 °C) 45 a

Material

PC PBT Housing material Material sensing surface **PMMA**

Mechanical data

Dimension 10.8 x 43.5 x 19.5 mm

Mounting Screw M3

Optical features

Ambient light max. 5000 Lux Beam characteristic Divergent Light spot size Ø 90 mm at 2 m $\,$ Light type Infrared

Principle of optical operation Through-beam sensor Switching function, optical dark-on

Wave length 880 nm

Output/Interface

Switching output PNP normally open (NO) Pin 4

Range/Distance

0...20 m Range Rated operating distance Sn 20 m Adjustable

Remarks

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.

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

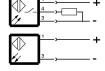
For more information about MTTF and B10d see MTTF / B10d Certificate

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



