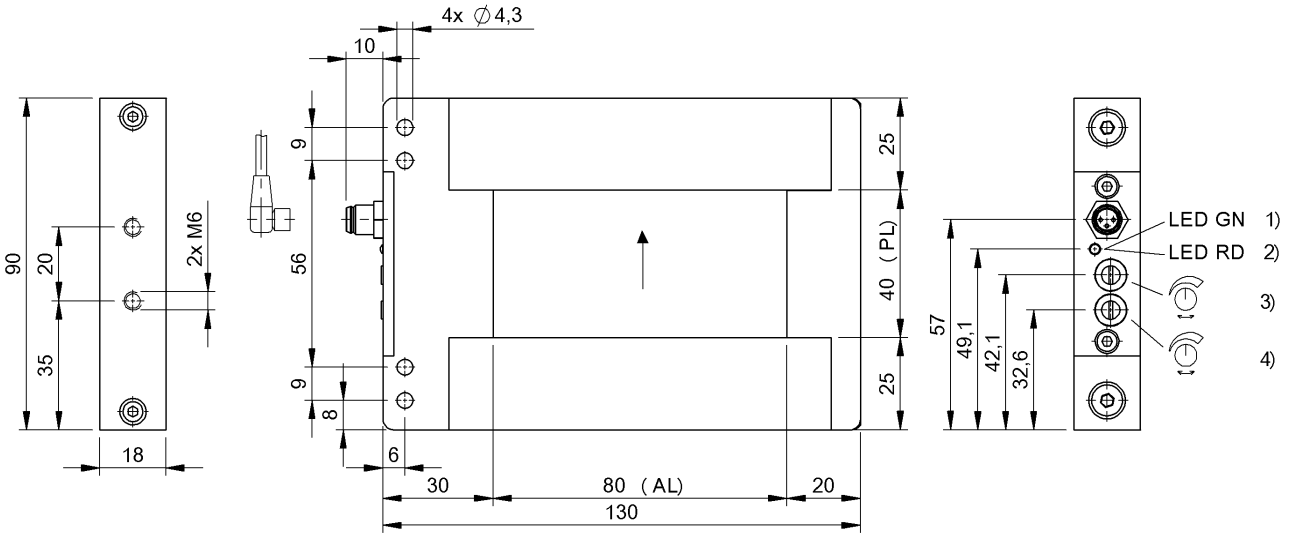
Photoelectric Sensors

BOW A-0408-PS-C-S49
Order Code: BOW001A



1) Power, 2) Output function, 3) Delay time, 4) Sensitivity

Basic features

Approval/Conformity	CE WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Optical window sensor
Series	A
Style	Frame

Display/Operation

Adjuster	Potentiometer 270° (2x)
Display	Output function dynamic - LED red LED green: Power
Setting	Delay time Sensitivity dynamic

Electrical connection

Connection	Connector, M8x1-Male, 3-pin
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.1 µF
No-load current Io max. at Ue	40 mA
Operating voltage Ub	10...30 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	200 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	100 ms
Residual current Ir max.	50 µA
Ripple max. (% of Ue)	15 %
Switching frequency	100 Hz Dynamic
Turn-off delay toff max.	0.4 ms dyn.
Turn-on delay ton max.	0.4 ms dyn.
Utilization category	DC -13
Voltage drop Ud max. at Ie	2.5 V

Environmental conditions

Ambient temperature	-10...55 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms, 3x6
EN 60068-2-6, Vibration	10…55 Hz, 0.5 mm, 3x5 min 55 Hz, 0.5 mm, 3x30 min
Protection degree	IP67

Material

Housing material	Aluminum, anodized, black
Material sensing surface	PMMA
Surface protection	anodized, black

Photoelectric Sensors

BOW A-0408-PS-C-S49
Order Code: BOW001A

Mechanical data

Active window (PL x AL)	40 × 80 mm
Dimension	18 x 90 x 140 mm
Mounting	Screw M6 Screw M4

Optical features

Ambient light max.	5000 Lux
Beam characteristic	Divergent
Light type	Infrared
Principle of optical operation	Through-beam sensor
Smallest part typ.	1.0 mm dynamic
Switching function, optical	dark-on
Wave length	880 nm

Output/Interface

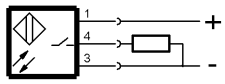
Duration of time function	T = 5…300 ms
Switching output	PNP dynamic normally open (NO)
Time function	Turn-off delay dynamic

Remarks

Order accessories separately.
For additional information, refer to user's guide.
Reference object (target): Steel ball, diameter 2.0 mm, lateral approach.
The sensor is functional again after the overload has been eliminated.

Connector Drawings

Wiring Diagrams



Opto Symbols