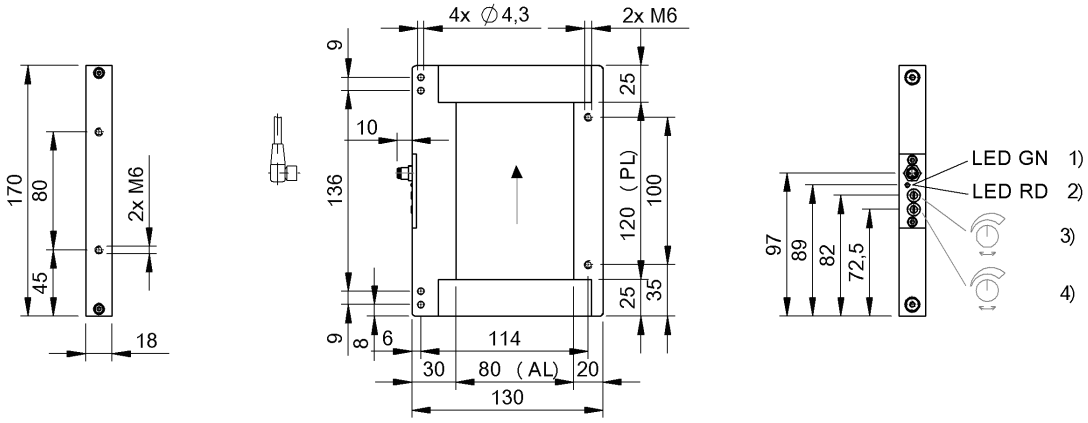
Photoelectric Sensors

BOW A-1208-DS-C-S75
Order Code: BOW004H



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

Basic features

Additional features	Dynamic function principle, ideal as eject monitoring under harsh operating conditions, particularly rugged design, protected optics, adjustable object resolution.
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 - LED red LED green: Power
Setting	Sensitivity Delay time

Electrical connection

Connection	Connector, M8x1-Male, 4-pin
Contact, surface protection	Gold plated
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.1 µF
No-load current Io max. at Ue	60 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
Turn-off delay toff max.	0.4 ms dyn.
Turn-on delay ton max.	0.4 ms
Voltage drop Ud max. at Ie	2.5 V

Environmental conditions

Ambient temperature	-10...55 °C
Protection degree	IP67

Material

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

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Mechanical data

Active window (PL x AL)	120 × 80 mm
Dimension	18 x 170 x 140 mm
Mounting	Screw M6 Screw M4 Screw M5

Output/Interface

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

Optical features

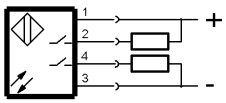
Ambient light max.	2000 Lux
Beam characteristic	Divergent
Light type	Infrared
Principle of optical operation	Through-beam sensor
Smallest part typ.	1.20 mm
Switching function, optical	dark-on

Remarks

Order accessories separately.
For additional information, refer to user's guide.
Do not route connection cable parallel to high voltage lines.
The sensor is functional again after the overload has been eliminated.
Reference object (target): Steel ball, diameter 2.0 mm, lateral approach.

Connector Drawings

Wiring Diagrams



Opto Symbols