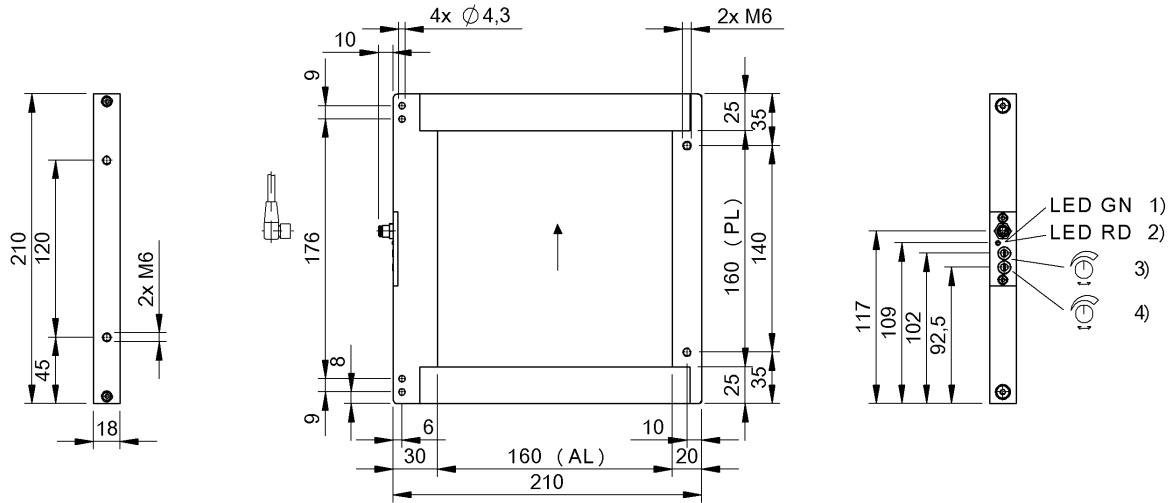


Photoelectric Sensors
BOW A-1616-DS-C-S75
 Order Code: BOW004L

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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 UKCA 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 I_o max. at Ue	100 mA
Operating voltage U_b	10...30 VDC
Rated insulation voltage U_i	75 V DC
Rated operating current I_e	200 mA
Rated operating voltage U_e DC	24 V
Ready delay t_v max.	100 ms
Residual current I_r max.	50 µA
Ripple max. (% of U_e)	15 %
Switching frequency	100 Hz
Turn-off delay t_{off} max.	0.4 ms dyn.
Turn-on delay t_{on} max.	0.4 ms
Voltage drop U_d max. at I_e	2.5 V

Environmental conditions

Ambient temperature	-10...55 °C
IP rating	IP67

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

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Material

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

Mechanical data

Active window (PL x AL)	160 × 160 mm
Dimension	18 x 210 x 220 mm
Mounting part	Screw M6 Screw M4 Screw M5

Optical features

Ambient light max.	2000 Lux
Beam characteristic	Divergent
Light type	Infrared
Principle of optical operation	Through-beam sensor
Smallest part typ.	1.50 mm
Switching function, optical	dark-on

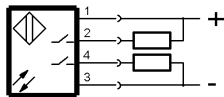
Remarks

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

