

1) Pulse extender, 2) LED Power indicator, 3) Switching function, 4) Object resolution, 5) LED warning indicator, 6) LED function indicator, 7) Optical axis



Basic features

Additional features

Static switching output with automatic readjustment of the switching threshold
Contamination compensation up to 60% intensity loss and reduced object resolution depending on degree of contamination.

Approval/Conformity

CE
UKCA
WEEE

Basic standard

IEC 60947-5-2

Principle of operation

Optical window sensor

Series

B

Style

Frame

Display/Operation

Adjuster

Potentiometer 270° (3x)

Display

Output function- LED yellow
LED green: Power

Error - LED red

Setting

Object resolution (3 levels)
Light-on/dark-on
Delay time on/off

Electrical connection

Connection

Connector, M8x1-Male, 4-pin

Contact, surface protection

Gold plated

Polarity reversal protected

yes

Short-circuit protection

yes

Photoelectric Sensors
BOW B-0808-DU-C-S75
Order Code: BOW002Y

BALLUFF

Electrical data

Load capacitance max. at Ue	0.1 μ F
No-load current I ₀ max. at Ue	105 mA
Operating voltage U _b	15...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.	300 ms
Residual current I _r max.	50 μ A
Ripple max. (% of U _e)	15 %
Switching frequency	1000 Hz
Turn-off delay t _{off} max.	0.5 ms
Turn-on delay t _{on} max.	0.5 ms
Voltage drop U _d max. at I _e	3.5 V

Environmental conditions

Ambient temperature	-10...55 °C
IP rating	IP65

Interface

Duration of time function	T = 50 ms
Switching output	NPN static normally open/ normally closed (NO/NC) PNP static normally open/ normally closed (NO/NC)
Time function	switch-off delay

Remarks

Order accessories separately.
For additional information, refer to user's guide.
Do not route connection cable parallel to high voltage lines.
Reference object (target): Steel ball, diameter 4.0 mm, lateral approach.
The sensor is functional again after the overload has been eliminated.

Material

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

Mechanical data

Active window (PL x AL)	80 x 80 mm
Dimension	15 x 130 x 134 mm
Mounting part	Screw M6

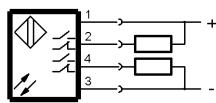
Optical features

Ambient light max.	2000 Lux
Beam characteristic	Divergent
Light type	Infrared
Principle of optical operation	Through-beam sensor
Smallest part typ.	2.0 mm (resolution "High")
Switching function, optical	dark-on/light-on
Wave length	850 nm

Connector Drawings



Wiring Diagrams



Photoelectric Sensors
BOW B-0808-DU-C-S75
Order Code: BOW002Y

BALLUFF

Opto Symbols

