

8(Detail)

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**

<b>Additional features</b>	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.
<b>Approval/Conformity</b>	CE UKCA WEEE
<b>Basic standard</b>	IEC 60947-5-2
<b>Principle of operation</b>	Optical window sensor
<b>Series</b>	B
<b>Style</b>	Frame

**Display/Operation**

<b>Adjuster</b>	Potentiometer 270° (3x)
<b>Display</b>	Output function- LED yellow LED green: Power Error - LED red
<b>Setting</b>	Object resolution (3 levels) Light-on/dark-on Delay time on/off

**Electrical connection**

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

Photoelectric Sensors  
**BOW B-1208-DU-C-S75**  
**Order Code: BOW002Z**



**Electrical data**

Load capacitance max. at Ue	0.1 µF
No-load current I <sub>o</sub> max. at Ue	120 mA
Operating voltage U <sub>b</sub>	15...30 VDC
Rated insulation voltage U <sub>i</sub>	75 V DC
Rated operating current I <sub>e</sub>	200 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Ready delay t <sub>v</sub> max.	300 ms
Residual current I <sub>r</sub> max.	50 µA
Ripple max. (% of U <sub>e</sub> )	15 %
Switching frequency	1000 Hz
Turn-off delay t <sub>off</sub> max.	0.5 ms
Turn-on delay t <sub>on</sub> max.	0.5 ms
Voltage drop U <sub>d</sub> max. at I <sub>e</sub>	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)	120 × 80 mm
Dimension	15 x 170 x 134 mm
Mounting part	Screw M6

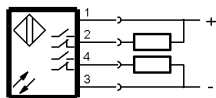
**Optical features**

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-1208-DU-C-S75**  
Order Code: BOW002Z

**BALLUFF**

Opto Symbols

