

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



**Basic features**

<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>	A
<b>Style</b>	Frame

**Display/Operation**

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

**Electrical connection**

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

**Electrical data**

<b>Load capacitance max. at Ue</b>	0.1 µF
<b>No-load current I<sub>o</sub> max. at Ue</b>	90 mA
<b>Operating voltage U<sub>b</sub></b>	10...30 VDC
<b>Rated insulation voltage U<sub>i</sub></b>	75 V DC
<b>Rated operating current I<sub>e</sub></b>	200 mA
<b>Rated operating voltage U<sub>e</sub> DC</b>	24 V
<b>Ready delay t<sub>v</sub> max.</b>	100 ms
<b>Residual current I<sub>r</sub> max.</b>	50 µA
<b>Ripple max. (% of U<sub>e</sub>)</b>	15 %
<b>Switching frequency</b>	100 Hz Dynamic
<b>Turn-off delay t<sub>off</sub> max.</b>	0.4 ms dyn.
<b>Turn-on delay t<sub>on</sub> max.</b>	0.4 ms dyn.
<b>Utilization category</b>	DC -13
<b>Voltage drop U<sub>d</sub> max. at I<sub>e</sub></b>	2.5 V

**Environmental conditions**

<b>Ambient temperature</b>	-10...55 °C
<b>Contamination scale</b>	3
<b>EN 60068-2-27, Shock</b>	Half-sinus, 30 g <sub>n</sub> , 11 ms, 3x6
<b>EN 60068-2-6, Vibration</b>	10...55 Hz, 0.5 mm, 3x5 min 55 Hz, 0.5 mm, 3x30 min
<b>IP rating</b>	IP67

**Interface**

<b>Duration of time function</b>	T = 5...300 ms
<b>Switching output</b>	NPN dynamic normally open (NO)
<b>Time function</b>	Turn-off delay dynamic

Photoelectric Sensors  
**BOW A-1216-NS-C-S49**  
Order Code: BOW0029



**Material**

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

**Mechanical data**

Active window (PL x AL)	120 x 160 mm
Dimension	18 x 170 x 220 mm
Mounting part	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.	1.2 mm dynamic
Switching function, optical	dark-on
Wave length	880 nm

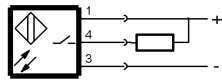
**Remarks**

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**

