

1) Output function, 2) Operating voltage, 3) Optical axis



**Basic features**

<b>Approval/Conformity</b>	CE UKCA cULus WEEE
<b>Basic standard</b>	IEC 60947-5-2
<b>Principle of operation</b>	Angle sensor
<b>Series</b>	A
<b>Style</b>	Angle Connection 30°

**Electrical connection**

<b>Connection</b>	Connector, M12x1-Male, 4-pin
<b>Contact, surface protection</b>	Gold plated
<b>Polarity reversal protected</b>	yes
<b>Protection against device mix-ups</b>	yes
<b>Short-circuit protection</b>	yes

**Display/Operation**

<b>Display</b>	Output function- LED yellow LED green: Power
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Photoelectric Sensors  
**BWL 4260A-001-S4**  
**Order Code: BWL001L**



**Electrical data**

Load capacitance max. at Ue	0.5 µF
No-load current I <sub>o</sub> max. at Ue	35 mA
Operating voltage U <sub>b</sub>	10...30 VDC
Output resistance R <sub>a</sub>	33.0 kOhm
Protection class	II
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.	100 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
Utilization category	DC -13
Voltage drop U <sub>d</sub> max. at I <sub>e</sub>	2.5 V

**Environmental conditions**

Ambient temperature	-10...60 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms, 3x6 Half-sinus, 100 g <sub>n</sub> , 2 ms, 3x8000
EN 60068-2-6, Vibration	10...2000 Hz, amplitude 1 mm, 30 g <sub>n</sub> , 3x5 h
IP rating	IP67

**Interface**

Switching output	PNP normally open (NO)
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**Material**

Housing material	1.4408 stainless steel, Powder coated
Material sensing surface	Epoxy resin
Surface protection	Powder coated

**Mechanical data**

Dimension	14 x 90 x 113 mm
Mounting part	Screw M6

**Optical features**

Ambient light max.	5000 Lux
Beam characteristic	Divergent
Light spot size	Ø 3.0 mm Light exit
Light type	Infrared
Principle of optical operation	Through-beam sensor
Switching function, optical	dark-on
Wave length	880 nm

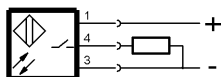
**Remarks**

The sensor is functional again after the overload has been eliminated.  
 For additional information, refer to user's guide.  
 Order accessories separately.  
 Reference object (target): Steel plate, 50 x 50, thickness 0.5 mm, lateral approach.

**Connector Drawings**



**Wiring Diagrams**



## Opto Symbols

