

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



Basic features

Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Angle sensor
Series	C
Style	Angle Connection 45°

Electrical connection

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

Display/Operation

Display	Output function- LED yellow LED green: Power
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Photoelectric Sensors
BWL 2222C-001-S4
Order Code: BWL001H



Electrical data

Load capacitance max. at Ue	0.5 µF
No-load current I _o max. at Ue	35 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	33.0 kOhm
Protection class	II
Rated insulation voltage U _i	250 V AC
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	1000 Hz
Turn-off delay t _{off} max.	0.5 ms
Turn-on delay t _{on} max.	0.5 ms
Utilization category	DC -13
Voltage drop U _d max. at I _e	2.5 V

Environmental conditions

Ambient temperature	-10...60 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms, 3x6 Half-sinus, 100 g _n , 2 ms, 3x8000
EN 60068-2-6, Vibration	10...2000 Hz, amplitude 1 mm, 30 g _n , 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 51 x 90 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

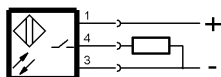
Remarks

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



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Opto Symbols

