



**Model Number**

**NBB10-30GM50-E0-V1**

**Features**

- **Basic series**
- **10 mm flush**

**Accessories**

**BF 30**  
Mounting flange, 30 mm

**EXG-30**  
Quick mounting bracket with dead stop

**V1-G**  
Female connector, M12, 4-pin, field attachable

**V1-W**  
Female connector, M12, 4-pin, field attachable

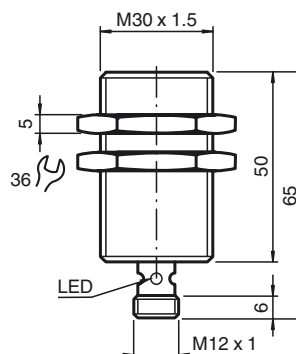
**V1-G-2M-PUR**  
Female cordset, M12, 4-pin, PUR cable

**V1-W-2M-PUR**  
Female cordset, M12, 4-pin, PUR cable

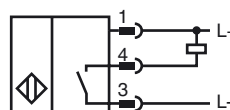
**Technical Data**

<b>General specifications</b>	
Switching function	Normally open (NO)
Output type	NPN
Rated operating distance	$s_n$ 10 mm
Installation	flush
Output polarity	DC
Assured operating distance	$s_a$ 0 ... 8.1 mm
Reduction factor $r_{AI}$	0.3
Reduction factor $r_{Cu}$	0.3
Reduction factor $r_{304}$	0.8
Output type	3-wire
<b>Nominal ratings</b>	
Operating voltage	$U_B$ 10 ... 30 V
Switching frequency	$f$ 0 ... 200 Hz
Hysteresis	$H$ typ. 5%
Reverse polarity protection	reverse polarity protected
Short-circuit protection	pulsing
Voltage drop	$U_d$ $\leq$ 3 V
Operating current	$I_L$ 0 ... 200 mA
Off-state current	$I_r$ 0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C
No-load supply current	$I_0$ $\leq$ 20 mA
Switching state indicator	Multihole-LED, yellow
<b>Functional safety related parameters</b>	
MTTF <sub>d</sub>	1374 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %
<b>Ambient conditions</b>	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>	
Connection type	Connector plug M12 x 1, 4-pin
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67
<b>Compliance with standards and directives</b>	
Standard conformity	
Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
<b>Approvals and certificates</b>	
UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated $\leq$ 36 V

**Dimensions**

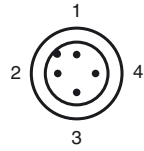


**Electrical Connection**



Release date: 2018-02-05 11:55 Date of issue: 2018-02-07 084196\_eng.xml

Pinout



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

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