



**Model Number**

**NBB15-30GM30-E2-V1**

**Features**

- 15 mm flush
- Increased operating distance
- Extended temperature range

**Accessories**

**BF 30-F**

Mounting flange with dead stop, 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**

**General specifications**

Switching element function	PNP	NO
Rated operating distance	$s_n$	15 mm
Installation		flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 12.15 mm ( -25 ... 70 °C ( -13 ... 158 °F ) ) 0 ... 11.4 mm ( -40 ... -25 °C ( -40 ... -13 °F ) )
Reduction factor $r_{AI}$		0.3
Reduction factor $r_{Cu}$		0.3
Reduction factor $r_{304}$		0.75

**Nominal ratings**

Operating voltage	$U_B$	10 ... 30 V
Switching frequency	$f$	0 ... 150 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 ... 100 mA
Off-state current	$I_r$	0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C
No-load supply current	$I_0$	$\leq 15$ mA
Switching state indicator		Multihole-LED, yellow

**Functional safety related parameters**

MTTF <sub>d</sub>	2090 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %

**Ambient conditions**

Ambient temperature	-40 ... 70 °C ( -40 ... 158 °F )
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**Mechanical specifications**

Connection type	Connector M12 x 1 , 4-pin
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67

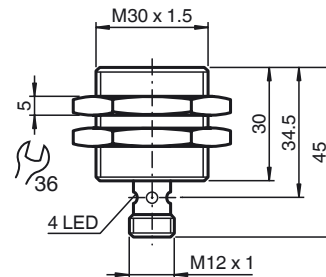
**Compliance with standards and directives**

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

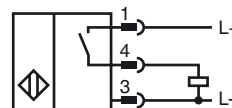
**Approvals and certificates**

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: 2016-05-31 08:04 Date of issue: 2016-05-31 08:7747\_eng.xml

## Pinout



Wire colors in accordance with EN 60947-5-2

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