



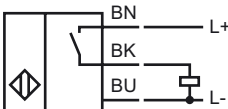
### Model Number

NBB4-12GM50-E2

### Features

- 4 mm embeddable
- Increased operating distance

### Connection



### Accessories

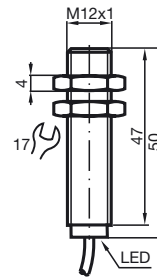
#### BF 12

Mounting flange, 12 mm

#### EXG-12

Quick mounting bracket with dead stop

## Dimensions



## Technical Data

### General specifications

Switching element function	PNP NO
Rated operating distance	$s_n$ 4 mm
Installation	embeddable
Output polarity	DC
Assured operating distance	$s_a$ 0 ... 3.24 mm
Reduction factor $r_{Al}$	0.39
Reduction factor $r_{Cu}$	0.35
Reduction factor $r_{303}$	0.75
Reduction factor $r_{Brass}$	0.49

### Nominal ratings

Operating voltage	$U_B$	10 ... 30 V
Switching frequency	$f$	0 ... 800 Hz
Hysteresis	$H$	typ. 5%
Reverse polarity protected		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	$I_0$	$\leq 15$ mA
Indication of the switching state		LED, yellow

### Functional safety related parameters

MTTF <sub>d</sub>	990 a
Mission Time ( $T_M$ )	20 a
Diagnostic Coverage (DC)	0 %

### Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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### Mechanical specifications

Connection type	cable PVC, 2 m
Cable version	3 x 0.14 mm <sup>2</sup>
Core cross-section	0.14 mm <sup>2</sup>
Housing material	brass, nickel-plated
Sensing face	PBT
Protection degree	IP67

### General information

Scope of delivery	2 self locking nuts in scope of delivery
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### 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	Products with a maximum operating voltage of $\leq 36$ V do not bear a CCC marking because they do not require approval.

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