

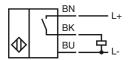
### **Model Number**

NBB2-12GK50-E2

### **Features**

- With increased sealing, protection class IP68 / IP69k
- · Plastic housing

# Connection

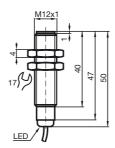


# **Accessories**

BF 12

Mounting flange, 12 mm

### **Dimensions**



### **Technical Data**

General specifications		
Switching element function		PNP NO
Rated operating distance	s <sub>n</sub>	2 mm
Installation		flush
Output polarity		DC
Assured operating distance	sa	0 1.62 mm
Reduction factor r <sub>Al</sub>		0.3
Reduction factor r <sub>Cu</sub>		0.2
Reduction factor r <sub>304</sub>		0.7
Nominal ratings		
Operating voltage	U <sub>B</sub>	10 30 V
Switching frequency	f	0 1500 Hz

Nominal ratings				
Operating voltage	$U_B$	10 30 V		
Switching frequency	f	0 1500 Hz		
Reverse polarity protection		reverse polarity protected		
Short-circuit protection		pulsing		
Voltage drop	$U_d$	≤ 3 V		
Operating current	IL.	0 200 mA		
Off-state current	l <sub>r</sub>	0 0.5 mA typ. 0.1 μA at 25 °C		
No-load supply current	I <sub>0</sub>	≤ 17 mA		
Indication of the switching state		LED, yellow		
Functional safety related parameters				

MTTF <sub>d</sub>	1060 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %
Ambient conditions	

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

Mechanical specifications

 Rechanical specifications
 Connection type
 cable PVC , 2 m

 Core cross-section
 0.14 mm²

 Housing material
 PBT

 Sensing face
 PBT

 Protection degree
 IP68 / IP69K

 Note
 use only delivered nuts

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 ≤36 V do not bear a CCC marking because they do not require approval.

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