





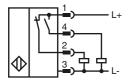
### **Model Number**

NBN4-12GM60-A2-V1

### **Features**

· 4 mm not embeddable

### Connection



# **Pinout**



Wire colors in accordance with EN 60947-5-2

BN	(brown
WH	(white)
BU	(blue)
BK	(black)
	WH BU

## **Accessories**

**BF 12** 

Mounting flange, 12 mm

4-pin, M12 female field-attachable connector V1-W

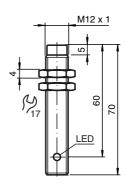
4-pin, M12 female field-attachable connector V1-G-2M-PUR

Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

#### **Dimensions**



## **Technical Data**

General specifications							
Switching element function		PNP NO/NC					
Rated operating distance	s <sub>n</sub>	4 mm					
Installation		not embeddable					
Output polarity		DC					
Assured operating distance	sa	0 3.24 mm					
Reduction factor r <sub>Al</sub>		0.45					
Reduction factor r <sub>Cu</sub>		0.4					
Reduction factor r <sub>303</sub>		0.75					

Nominal ratings

Operating voltage	$U_{B}$	10 30 V
Switching frequency	f	0 1200 Hz
Hysteresis	Н	typ. 5%
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U <sub>d</sub>	≤ 2 V
Operating current	ΙL	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>	≤ 15 mA
Indication of the switching state		LED, yellow

Functional safety related parameters

MTTF <sub>d</sub>	3220 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

Connection type Device connector M12 x 1, 4-pin Housing material Sensing face brass, nickel-plated PBT Protection degree

General information

Scope of delivery 2 self locking nuts in scope of delivery

Compliance with standards and directives

Standard conformity EN 60947-5-2:2007 Standards

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

IEC 60947-5-2:2007

CCC marking because they do not require approval.

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