# 







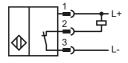
# **Model Number**

NBN4-12GM50-E1-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

V1-G

4-pin, M12 female field-attachable connector

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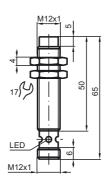
V1-W 4-pin, M12 female field-attachable connector

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		NPN 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>		0.5
Reduction factor r <sub>Cu</sub>		0.4
Reduction factor r <sub>303</sub>		0.8
Nominal ratings		
O	1.1	10 00 1/

Operating voltage U<sub>B</sub> 10 ... 30 V
Switching frequency f 0 ... 1200 Hz
Reverse polarity protected
Short-circuit protection pulsing

Functional safety related parameters

 $\begin{array}{c} \text{MTTF}_d & \text{1600 a} \\ \text{Mission Time } (T_M) & \text{20 a} \\ \text{Diagnostic Coverage (DC)} & \text{0 } \% \end{array}$ 

Ambient conditions

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

Mechanical specifications

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

Protection degree General information

Scope of delivery 2 self locking nuts in scope of delivery

**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 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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