









### **Model Number**

#### NRN10-12GH40-E2-V1

#### **Features**

- Reduction factor = 1
- 10 mm non-flush
- Magnetic field resistant
- Stainless steel housing
- Front face FDA conform

### **Accessories**

BF 12

Mounting flange, 12 mm

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        |                | FINE         | NO |
|-----------------------------------|----------------|--------------|----|
| Rated operating distance          | s <sub>n</sub> | 10 mm        |    |
| Installation                      |                | non-flush    |    |
| Output polarity                   |                | switched hig | ιh |
| Assured operating distance        | sa             | 0 8.1 mm     |    |
| Reduction factor r <sub>Al</sub>  |                | 1            |    |
| Reduction factor r <sub>Cu</sub>  |                | 1            |    |
| Reduction factor r <sub>304</sub> |                | 1            |    |
|                                   |                |              |    |

### Reduction factor r<sub>St37</sub> Nominal ratings

Rated insulation voltage

10 ... 30 V DC 0 ... 1500 Hz Operating voltage Switching frequency Hysteresis Н typ. 5 %

Reverse polarity protection reverse polarity protected Short-circuit protection pulsing . ≤2 V Voltage drop

UBIS 60 V Operating current 0 ... 200 mA 0 ... 0.5 mA typ. 0.1 μA at 25 °C ≤ 12 mA Off-state current No-load supply current Time delay before availability ≤ 20 ms t<sub>v</sub> B Constant magnetic field 200 mT

В

200 mT

Multihole-LED, yellow

Alternating magnetic field Switching state indicator Functional safety related parameters

MTTF<sub>d</sub> Mission Time (T<sub>M</sub>) 1393 a 20 a Diagnostic Coverage (DC)

Ambient conditions Ambient temperature -25 ... 85 °C (-13 ... 185 °F) Storage temperature -40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

Connection type Connector M12 x 1, 4-pin Housing material stainless steel 1.4404 / AISI 316L Sensing face LCP, (conforms with FDA)

Degree of protection IP67 15 g General information

Scope of delivery Supplied with 2 nuts

Compliance with standards and directives Standard conformity

EN 60947-5-2:2007 Standards

EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

Approvals and certificates

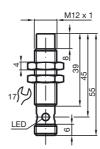
Protection class Ш 60 V Rated insulation voltage Ui Rated impulse withstand voltage  $U_{imp}$ 800 V

UL approval cULus Listed, General Purpose Class 2 power source

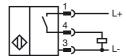
CSA approval cCSAus Listed, General Purpose Class 2 power source

CCC approval CCC approval / marking not required for products rated ≤36 V

### **Dimensions**



### **Electrical Connection**



### **Pinout**



Wire colors in accordance with EN 60947-5-2

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