







### **Model Number**

### NBN40-L2M-A0-V1

#### **Features**

- Sensor head bidirectional and rotatable
- 40 mm non-flush
- 4-wire DC
- 4-way LED indicator

### **Accessories**

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

MHW 01

Modular mounting bracket

MH 02-L Mounting aid

# **Technical Data**

| deneral specifications              |                |           |       |
|-------------------------------------|----------------|-----------|-------|
| Switching element function          |                | NPN       | NO/NC |
| Rated operating distance            | s <sub>n</sub> | 40 mm     |       |
| Installation                        |                | non-flush |       |
| Output polarity                     |                | DC        |       |
| Assured operating distance          | sa             | 0 32.4 mm | n     |
| Reduction factor r <sub>AI</sub>    |                | 0.3       |       |
| Reduction factor r <sub>Cu</sub>    |                | 0.28      |       |
| Reduction factor r <sub>304</sub>   |                | 0.75      |       |
| Reduction factor r <sub>Brass</sub> |                | 0.38      |       |
| Nominal ratings                     |                |           |       |
|                                     |                |           |       |

10 ... 30 V DC 0 ... 100 Hz Operating voltage UB Switching frequency Hysteresis Н typ. 5 % Reverse polarity protection reverse polarity protected Short-circuit protection

pulsing  $U_{d}$ . ≤2 V Voltage drop Operating current 0 ... 200 mA Off-state current 0 ... 0.5 mA No-load supply current Time delay before availability ≤ 20 mA 80 ms

Operating voltage indicator LED, green Switching state indicator LED, yellow Functional safety related parameters

MTTF<sub>d</sub> Mission Time (T<sub>M</sub>) 1230 a 20 a 0 % Diagnostic Coverage (DC) **Ambient conditions** 

Ambient temperature

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

Mechanical specifications

Connector M12 x 1, 4-pin Connection type Housing material PA-GF35

metal base Xylan coated metal mounting flange Xylan coated. Sensing face PA-GF35

Degree of protection IP69K Compliance with standards and directives

Standard conformity

EN 60947-5-2:2007 Standards IEC 60947-5-2:2007

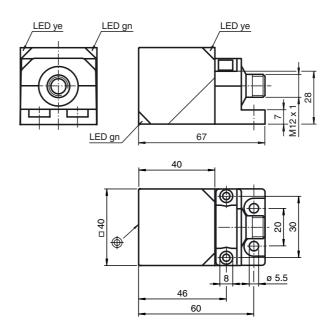
Approvals and certificates

Protection class Ш Rated insulation voltage  $U_{i}$ 253 V Design-impulse-voltage withstand U<sub>imp</sub> 4000 V

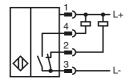
cULus Listed, General Purpose **UL** approval

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) |

FPEPPERL+FUCHS