





## **Model Number**

### NBN40-U4-A2-V1

#### **Features**

- Sensor head bidirectional and rotatable
- **Basic series**
- 40 mm non-flush
- 4-wire DC
- 4 LEDs indicator for 360° visibility

## **Accessories**

Female connector, M12, 4-pin, field attachable

## V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable MH 04-2681F

#### Mounting aid for VariKont, +U1+ and +U9\*

V1-W-2M-PUR

# Female cordset, M12, 4-pin, PUR cable

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

## MHW 01

Modular mounting bracket

## **Technical Data**

#### General specifications Switching element function Rated operating distance

Installation non-flush Output polarity DC Assured operating distance Reduction factor r<sub>Al</sub> 0 ... 32.4 mm 0.31 Reduction factor r<sub>Cu</sub> 0.3 Reduction factor r<sub>304</sub> 0.74 Reduction factor r<sub>Brass</sub> 0.39

PNP

 $s_n$ 

40 mm

NO/NC

Nominal ratings Operating voltage

10 ... 30 V DC 0 ... 150 Hz  $U_B$ 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

**Mechanical specifications** Connection type

PA/metal with epoxy powder coating Housing material PA Sensing face Housing base metal Degree of protection IP68 / IP69K Mass 225 g

Tightening torque: 1.8 Nm (housing)

#### Compliance with standards and directives

Standard conformity

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

#### Approvals and certificates

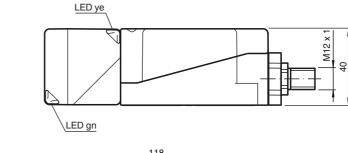
**UL** approval cULus Listed, General Purpose

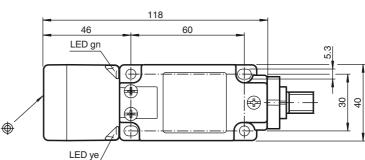
CCC approval / marking not required for products rated ≤36 V CCC approval

-25 ... 85 °C (-13 ... 185 °F)

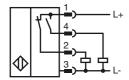
Connector M12 x 1, 4-pin

# **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

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