





#### **Model Number**

NBN30-U1-E2-V1

#### **Features**

- Sensor head bidirectional and rotatable
- 30 mm non-flush
- 4 LEDs indicator for 360° visibility

### **Accessories**

V1-G

Female connector, M12, 4-pin, field attachable

V1-W

Female connector, M12, 4-pin, field attachable

MH 04-2681F

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

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

#### **Technical Data** General specifications

Switching element function PNP NO 30 mm Rated operating distance  $s_n$ Installation non-flush Output polarity DC 0 ... 24.3 mm 0.33 Assured operating distance Reduction factor r<sub>Al</sub> Reduction factor r<sub>Cu</sub> 0.31 Reduction factor r<sub>304</sub> 0.74 Reduction factor r<sub>Brass</sub> 0.38

Nominal ratings Operating voltage 10 ... 30 V 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 typ. 0.01 mA No-load supply current Time delay before availability ≤ 20 mA 80 ms Operating voltage indicator LED, green LED, yellow

Switching state indicator Functional safety related parameters

MTTF<sub>d</sub> Mission Time (T<sub>M</sub>) 1510 a 20 a 0 % Diagnostic Coverage (DC)

**Ambient conditions** 

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

**Mechanical specifications** 

Connection type Connector M12 x 1, 4-pin PA/metal with epoxy powder coating Housing material PA Sensing face plastic Housing base Degree of protection iP68 / IP69K Mass 225 g

Tightening torque: 1.8 Nm (housing)

Compliance with standards and directives

Standard conformity

Note

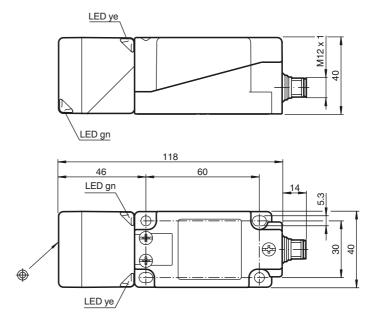
EN 60947-5-2:2007 Standards IEC 60947-5-2:2007

Approvals and certificates

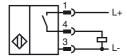
**UL** approval cULus Listed, General Purpose

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)

2