





### **Model Number**

NBN30-U1-A2-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

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

MH 04-2681F

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

MHW 01

Modular mounting bracket

	ical	

General	specif	ications

Switching element function		PNP	NO/NC
Rated operating distance	s <sub>n</sub>	30 mm	
Installation		non-flush	
Output polarity		DC	
Assured operating distance	sa	0 24.3 mm	1
Reduction factor r <sub>Al</sub>		0.33	
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 U<sub>B</sub> 10 ... 30 V Switching frequency f 0 ... 150 Hz Hysteresis H typ. 5 %

Reverse polarity protection reverse polarity protected Short-circuit protection pulsing

Switching state indicator
Functional safety related parameters

 $\begin{array}{ll} \text{MTTF}_d & 1230 \text{ a} \\ \text{Mission Time (T_M)} & 20 \text{ a} \\ \text{Diagnostic Coverage (DC)} & 0 \,\% \end{array}$ 

Ambient conditions

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

**Mechanical specifications** 

Connection type Connector M12 x 1 , 4-pin
Housing material PA/metal with epoxy powder coating
Sensing face PA

Housing base plastic
Degree of protection IP68 / IP69K
Mass 225 g

Note Tightening torque: 1.8 Nm (housing)

#### Compliance with standards and directives

Standard conformity

Standards EN 60947-5-2:2007

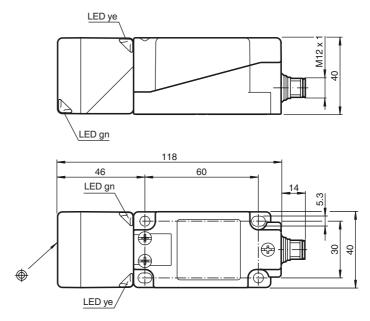
IEC 60947-5-2:2007

Approvals and certificates

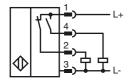
UL approval cULus Listed, General Purpose

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