





Model Number

NBN40-U1-A2-T-V1

Features

- Sensor head bidirectional and rotatable
- · 40 mm non-flush
- 4-wire DC
- · 4 LEDs indicator for 360° visibility
- Temperature range -25 ... 100 °C (-13 ... 212 °F)

Accessories

MH 04-2681F

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

MHW 01

Modular mounting bracket

V1-G

Female connector, M12, 4-pin, field attachable $\ensuremath{\mathbf{V1\text{-}W}}$

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 Rated operating distance

Installation non-flush Output polarity DC Assured operating distance 0 ... 32.4 mm Reduction factor rAI 0.31 Reduction factor r_{Cu} 0.3 Reduction factor r₃₀₄ 0.74 Reduction factor r_{Brass} 0.39 Output type 4-wire

Nominal ratings

 $\begin{array}{cccc} \text{Operating voltage} & \text{U}_{\text{B}} & \text{10} \dots \text{30 V DC} \\ \text{Switching frequency} & \text{f} & \text{0} \dots \text{180 Hz} \\ \text{Hysteresis} & \text{H} & \text{typ. 5 \%} \\ \end{array}$

Reverse polarity protection reverse polarity protected Short-circuit protection pulsing

40 mm

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 ... 100 °C (-13 ... 212 °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

lote Tightening torque: 1.8 Nm (housing)

Compliance with standards and directives

Standard conformity

Standards EN 60947-5-2:2007 EN 60947-5-2:/A1:2012 IEC 60947-5-2:2007

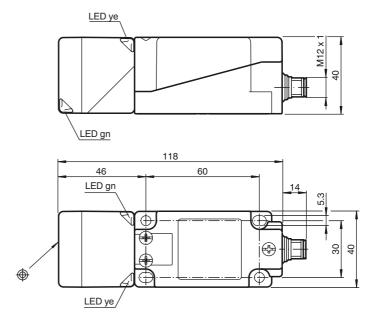
IEC 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

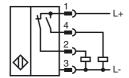
UL approval cULus Listed, General Purpose

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	RK	(black)