





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

V1-G

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 function complementary Output type Rated operating distance PNP 40 mm Installation non-flush Output polarity DC 0 ... 32.4 mm 0.31 Assured operating distance Reduction factor r_{Al} Reduction factor r_{Cu} 0.3 Reduction factor r₃₀₄ 0.74 Reduction factor r_{Brass} 0.39 Output type 4-wire

Nominal ratings

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

Reverse polarity protection reverse polarity protected Short-circuit protection pulsing

Voltage drop $U_d \le 2 \text{ V}$ Design data

Functional safety related parameters

 $\begin{array}{ll} \text{MTTF}_{d} & \text{1230 a} \\ \text{Mission Time (T}_{M}) & \text{20 a} \\ \text{Diagnostic Coverage (DC)} & \text{0 } \% \end{array}$

Ambient conditions

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

Mechanical specifications

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

 Sensing face
 PA

 Housing base
 metal

 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 EN 60947-5-2/41:2

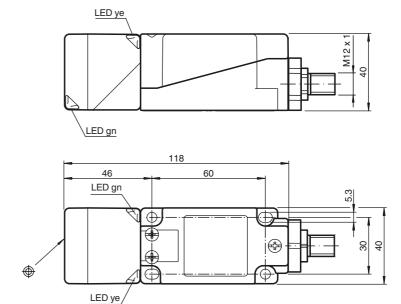
EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

Approvals and certificates

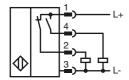
UL approval CULus Listed, General Purpose
CCC approval CCC approval / marking not requ

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

2