





Model Number

NBN40-U4-A2

Features

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

Accessories

MH 04-2681F

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

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_{Al} 0 ... 32.4 mm 0.31 Reduction factor r_{Cu} 0.3 Reduction factor r₃₀₄ 0.74 Reduction factor r_{Brass} 0.39

PNP

 s_n

40 mm

NO/NC

Nominal ratings

Operating voltage 10 ... 30 V DC 0 ... 180 Hz U_B Switching frequency Hysteresis Н typ. 5 % Reverse polarity protection reverse polarity protected pulsing

Short-circuit protection 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_d Mission Time (T_M) 1230 a 20 a 0 % Diagnostic Coverage (DC) Ambient conditions

Ambient temperature

-25 ... 85 °C (-13 ... 185 °F)

Mechanical specifications

screw terminals Connection type

A maximum of two conductors with the same core cross-section Information for connection

may be mounted on one terminal connection! tightening torque 1.2 Nm + 10 %

up to 2.5 mm²

Core cross-section without wire end ferrule 0.5 mm², with connector sleeves 0.34 mm² without wire end ferrule 2.5 mm², with connector sleeves 1.5 mm² Minimum core cross-section Maximum core cross-section

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

Mass 225 g Tightening torque: 1.8 Nm (housing)

Compliance with standards and directives

Standard conformity

EN 60947-5-2:2007 Standards

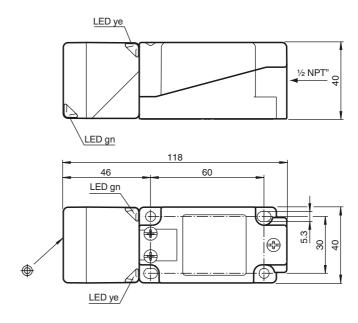
IEC 60947-5-2:2007

Approvals and certificates

UL approval cULus Listed, General Purpose

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

Dimensions



Electrical Connection

