









Model Number

NBN40-U2-UU

Features

- Sensor head bidirectional and rotatable
- NO/NC selectable
- Comfort series
- 40 mm non-flush

Accessories

MHW 01

Modular mounting bracket

Technical Data
General specifications
Switching function

Output type Rated operating distance Two-wire 40 mm Installation non-flush Output polarity AC/DC 0 ... 32.4 mm 36 ... 44 mm typ. 40 mm Assured operating distance Actual operating distance Reduction factor rAI 0.37 Reduction factor r_{Cu} 0.3 Reduction factor r₃₀₄ 0.73 Reduction factor r_{Fe}

Reduction factor r_{Brass}
Output type
Nominal ratings

Switching frequency

f

AC, 0 ... 30 Hz
DC, 0 ... 100 Hz
Hysteresis

Reverse polarity protection

Short-circuit protection

f

AC, 0 ... 30 Hz
DC, 0 ... 100 Hz
1 ... 10 typ. 5 %
reverse polarity tolerant
pulsing

 Voltage drop
 U_d
 ≤ 5 V (typ. 2V) DC operation

 ≤ 8 V (typ. 3 V) AC operation

 Momentary current
 0 ... 3000 mA

0.4

2-wire

Normally open/closed (NO/NC)

Momentary current (20 ms, 0.1 Hz) Design data

Operating current I_L 5 ... 500 mA

Off-state current I_r \leq 1.5 mA

Time delay before availability t_v \leq 300 ms

Operating voltage indicator LED, green

Switching state indicator LED, yellow

Error indicator flashes when overcurrent

Functional safety related parameters

 MTTF_d
 540 a

 Mission Time (T_M)
 20 a

 Diagnostic Coverage (DC)
 0 %

Ambient conditions

Ambient temperature $-25 \dots 85 \,^{\circ}\text{C} \, (-13 \dots 185 \,^{\circ}\text{F})$ Storage temperature $-25 \dots 85 \,^{\circ}\text{C} \, (-13 \dots 185 \,^{\circ}\text{F})$

Mechanical specifications

Connection type terminal compartment
Core cross-section up to 2.5 mm²
Housing material PA 6.6 / metal
Sensing face PA 6.6
Housing base plastic
Degree of protection IP67

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 AMD 1:2012

Approvals and certificates

 $\begin{array}{cccc} \text{Protection class} & & \text{II} \\ \text{Rated insulation voltage} & \text{U}_{\text{i}} & 230 \text{ V} \\ \text{Rated impulse withstand voltage} & \text{U}_{\text{imp}} & 2.5 \text{ kV} \end{array}$

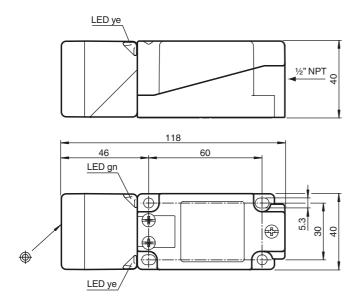
UL approval cULus Listed, General Purpose

cULus Listed, General Purpose
"For use in NFPA 79 Applications only"

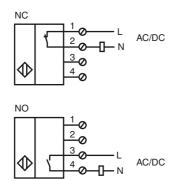
For overcurrent protection, install a fuse with a rated current of

max. 3 A and at least 300 V AC/DC
CCC approval Ue 75VDC - 250VDC Ue 75VAC - 230VAC

Dimensions



Electrical Connection



Note

The sensor is designed for individual operation. A series or parallel connection of sensors is not permissible.