





Model Number

NBN40-U4L-UU

Features

- Sensor head bidirectional and rotatable
- NO/NC selectable
- **Comfort series**
- 40 mm non-flush
- Metal base with ground connection

Accessories

MHW 01

Modular mounting bracket

General specifications		
Switching function		Normally open/closed (NO/NC)
Output type		Two-wire
Rated operating distance	s _n	40 mm
Installation		non-flush
Output polarity		AC/DC
Assured operating distance	sa	0 32.4 mm
Actual operating distance	s _r	36 44 mm typ. 40 mm
Reduction factor r _{Al}		0.37
Reduction factor r _{Cu}		0.3
Reduction factor r ₃₀₄		0.73
Reduction factor r _{Fe}		1
Reduction factor r _{Brass}		0.4
Output type		2-wire
Nominal ratings		
Switching frequency	f	0 25 Hz
Hysteresis	Н	1 10 typ. 5 %
Reverse polarity protection		reverse polarity tolerant
Short-circuit protection		pulsing
Voltage drop	U _d	≤ 5 V (typ. 2V) DC operation ≤ 8 V (typ. 2V) AC operation
Momentary current (20 ms, 0.1 Hz)		0 3000 mA
Design data		

Operating current
Off-state current 5 ... 500 mA ≤ 1.5 mA ≤ 300 ms Time delay before availability Operating voltage indicator LED, green Switching state indicator LED, yellow flashes when overcurrent Error indicator

Electrical specifications

Technical Data

24 ... 250 V DC / 24 ... 230 V AC 20 ... 300 V DC / 20 ... 253 V AC Rated operating voltage Operating voltage

Ambient conditions

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

Mechanical specifications

Connection type terminal compartment Information for connection A maximum of two conductors with the same core cross section

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

Housing material PA 6.6 / metal PA 6.6

Sensing face metal / class I equipment with ground connection Housing base

Degree of protection

Compliance with standards and

directives Standard conformity

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

Approvals and certificates

Protection class 230 V Rated insulation voltage Rated impulse withstand voltage U_{imp} 2.5 kV

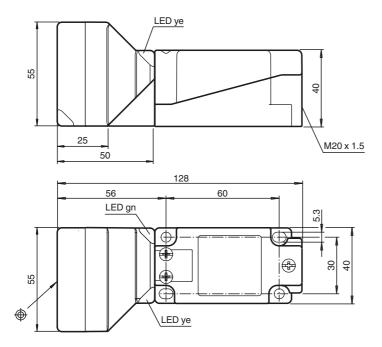
UL approval cULus Listed, General Purpose

"For use in NFPA 79 Applications only"

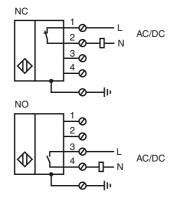
For overcurrent protection, install a fuse with a rated current of max. 3 A and at least 300 V AC/DC

Ue 75VDC - 250VDC Ue 75VAC - 230VAC CCC approval

Dimensions



Electrical Connection



Note

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