

NBN40-U1-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		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	AC, 0 30 Hz DC, 0 100 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. 3 V) AC operation	
Momentary current (20 ms, 0.1 Hz)		0 3000 mA	
Operating current	ΙL	5 500 mA	
Off-state current	l _r	≤ 1.5 mA	
Time delay before availability	t.,	≤ 300 ms	

Functional safety related parameters

Operating voltage indicator

Switching state indicator

Error indicator

MTTF_d Mission Time (T_M) 540 a 20 a Diagnostic Coverage (DC) **Electrical specifications**

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

Ambient conditions

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

Mechanical specifications terminal compartment

Connection type

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

may be mounted on one terminal connection!

LED, green

LED, yellow

flashes when overcurrent

tightening torque 1.2 Nm + 10 % up to 2.5 mm²

Core cross-section without wire end ferrule $0.5~\text{mm}^2$, with connector sleeves $0.34~\text{mm}^2$ without wire end ferrule $2.5~\text{mm}^2$, with connector sleeves $1.5~\text{mm}^2$ Minimum core cross-section Maximum core cross-section

PA 6.6 / metal Housing material Sensing face PA 6.6 Housing base plastic IP67 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

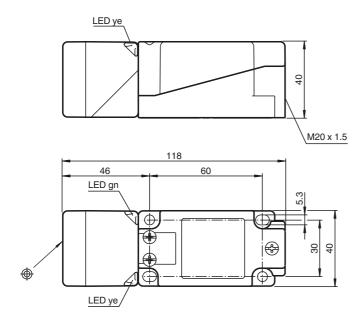
"For use in NFPA 79 Applications only"

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

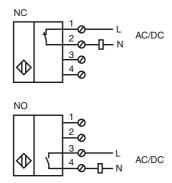
max. 3 A and at least 300 V AC/DC

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.

FPEPPERL+FUCHS