







Model Number

NBB15-U1-Z2

Features

- Sensor head bidirectional and rotatable
- 15 mm flush
- 2 LEDs indicator for 360° visibility

Accessories

MHW 01

Modular mounting bracket

V1-M20-80

Receptacles, M12/M20; plastic version

V1-G

Female connector, M12, 4-pin, field attachable

V1-W

Female connector, M12, 4-pin, field attachable

Technical Data

General specifications

Switching function Output type Rated operating distance Installation Output polarity Assured operating distance Actual operating distance Reduction factor rAI Reduction factor r_{Cu} Reduction factor r₃₀₄

Output type

Nominal ratings Operating voltage Switching frequency Hysteresis Reverse polarity protection Short-circuit protection

Voltage drop Voltage drop at IL

Voltage drop I_L = 100 mA, switching element on U_d Operating current Off-state current

Switching state indicator

Functional safety related parameters $MTTF_d$

Mission Time (T_M) Diagnostic Coverage (DC) Ambient conditions

Ambient temperature

Mechanical specifications Connection type

Information for connection

Core cross-section

Minimum core cross-section Maximum core cross-section

Housing material Sensing face Housing base Degree of protection Mass

Note Compliance with standards and

directives Standard conformity

Standards

EAC conformity **UL** approval CCC approval

cULus Listed, General Purpose

IEC 60947-5-2 AMD 1:2012

Normally open/closed (NO/NC)

Two-wire 15 mm flush

DC

0 ... 12.15 mm 13.5 ... 16.5 mm typ. 15 mm

0.3 0.3 0.7 2-wire

5 ... 60 V 0 ... 400 Hz typ. 5 %

reverse polarity tolerant

... 5 V

U_d

2 ... 200 mA 0 ... 0.5 mA 2 LED, yellow

1133 a

20 a

-25 ... 85 °C (-13 ... 185 °F)

screw terminals

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

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

PA/metal with epoxy powder coating plastic

IP68 / IP69K 225 g

Tightening torque: 1.8 Nm (housing)

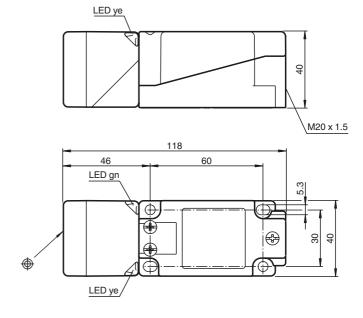
EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IFC 60947-5-2:2007

Approvals and certificates

TR CU 020/2011

Certified by China Compulsory Certification (CCC)

Dimensions



Electrical Connection

