





Model Number

NBB20-L2-Z0-V1

Features

- Sensor head bidirectional and rotatable
- 20 mm flush
- 2-wire DC
- **Quick mounting bracket**

Accessories

V1-G

Female connector, M12, 4-pin, field attachable

V1-W

Female connector, M12, 4-pin, field attachable

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

MHW 01

Modular mounting bracket

MH 02-L Mounting aid

Technical Data

General specifications Switching element function

NO contact Rated operating distance s_n 20 mm Installation flush 0 ... 16.2 mm Assured operating distance sa Reduction factor r_{Al} Reduction factor r_{Cu} 0.33 0.31 Reduction factor r₃₀₄ 0.74 Reduction factor r_{Brass} 0.41

Nominal ratings

Operating voltage 5 ... 30 V DC U_{B} Switching frequency 0 ... 30 Hz Reverse polarity protection Short-circuit protection reverse polarity tolerant pulsing ≤ 5 V Voltage drop Ud

2 ... 100 mA 0 ... 0.5 mA Operating current Off-state current Switching state indication LED, yellow

Functional safety related parameters

MTTF_d
Mission Time (T_M) 1210 a 20 a Diagnostic Coverage (DC) 0%

Ambient conditions

-25 ... 70 °C (-13 ... 158 °F) -25 ... 85 °C (-13 ... 185 °F) Ambient temperature Storage temperature

Mechanical specifications

Connection type Connector M12 x 1, 4-pin Housing material PA Sensing face Protection degree IP69K 130 g

Compliance with standards and directives

Standard conformity

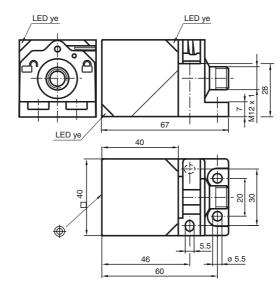
EN 60947-5-2:2007 Standards IEC 60947-5-2:2007

Approvals and certificates

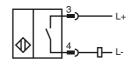
UL approval cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose

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

Dimensions



Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)