







## **Model Number**

## NBB15-U4-E2

### **Features**

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

## **Accessories**

#### MHW 01

Modular mounting bracket

# Technical Data General specifications

Switching element function		PNP	NO
Rated operating distance	s <sub>n</sub>	15 mm	
Installation		flush	
Output polarity		DC	
Assured operating distance	sa	0 12.15 m	ım
Reduction factor r <sub>Al</sub>		0.33	
Reduction factor r <sub>Cu</sub>		0.31	
Reduction factor r <sub>304</sub>		0.74	
Reduction factor r <sub>Brass</sub>		0.41	
Nominal ratings			

Operating voltage U<sub>B</sub> 10 ... 30 V Switching frequency f 0 ... 200 Hz Hysteresis H typ. 5 % Reverse polarity protection

Time delay before availability t<sub>v</sub> 80 ms
Operating voltage indicator LED, green
Switching state indicator LED, yellow
Functional safety related parameters

MTTF<sub>d</sub> 1460 a
Mission Time (T<sub>M</sub>) 20 a
Diagnostic Coverage (DC) 0 %
Ambient conditions

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

Mechanical specifications

Connection type screw terminals
Core cross-section up to 2.5 mm<sup>2</sup>
Housing material PA/metal with epoxy powder coating
Sensing face PA
Housing base metal

Setising lace FA
Housing base metal
Degree of protection IP68 / IP69K
Mass 225 g
Note. Tiethoping to:

Note Tightening torque: 1.8 Nm (housing)
Tightening torque: 1.0 Nm (Screw terminal)

### Compliance with standards and directives

Standard conformity

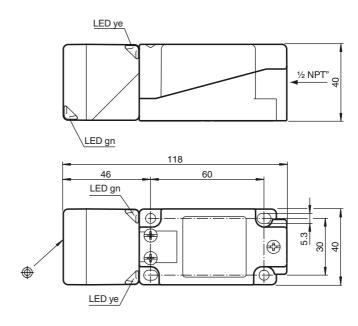
Standards EN 60947-5-2:2007 IEC 60947-5-2:2007

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

## **Dimensions**



## **Electrical Connection**

