





Model Number

NBB15-U4-A0

Features

- Sensor head bidirectional and rotatable
- 15 mm flush
- 4 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

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General specifications

Switching function complementary
Output type NPN
Rated operating distance Installation flush
Output polarity DC
Assured operating distance Sa 0 ... 12.15 mm
Reduction factor r_{AI} 0.33

 Reduction factor r_{Cu}
 0.3

 Reduction factor r₃₀₄
 0.74

 Reduction factor r_{Brass}
 0.41

 Output type
 4-wire

 Nominal ratings

 $\begin{tabular}{lll} Reverse polarity protection & reverse polarity protected \\ Short-circuit protection & pulsing \\ Voltage drop & U_d & \leq 2 \ V \\ \end{tabular}$

Functional safety related parameters

 $\begin{array}{ll} \text{MTTF}_d & 1230 \text{ a} \\ \text{Mission Time } (T_M) & 20 \text{ a} \\ \text{Diagnostic Coverage (DC)} & 0 \, \% \end{array}$

Ambient conditions

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

Mechanical specifications

Housing material PA/metal with epoxy powder coating

Sensing face PA
Housing base metal
Degree of protection IP68 / IP69K
Mass 225 g

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

Compliance with standards and

Standard conformity

Standards EN 60947-5-2:2007

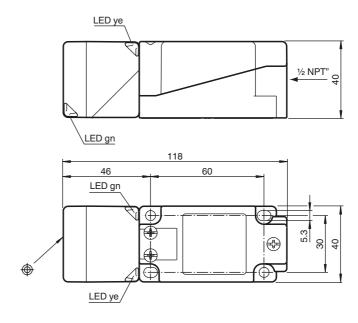
EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

Approvals and certificates

UL approval cULus Listed, General Purpose

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

Dimensions



Electrical Connection

