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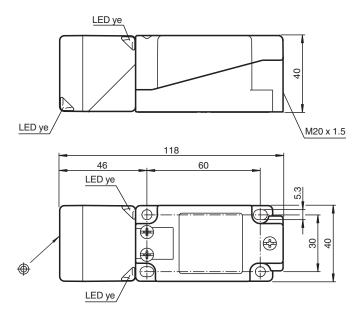
Inductive sensor

NBB15-U1-Z2

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



Dimensions



Technical Data

General specifications		
Switching function		Normally open/closed (NO/NC)
Output type		Two-wire
Rated operating distance	Sn	15 mm
Installation		flush
Output polarity		DC
Assured operating distance	Sa	0 12.15 mm
Actual operating distance	Sr	13.5 16.5 mm typ. 15 mm
Reduction factor r _{Al}		0.3
Reduction factor r _{Cu}		0.3
Reduction factor r ₃₀₄		0.7
Output type		2-wire
Nominal ratings		
Operating voltage	U_B	5 60 V

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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Technical Data Switching frequency f 0 ... 400 Hz Н typ. 5 % Hysteresis Reverse polarity protection reverse polarity tolerant Short-circuit protection yes Voltage drop U_{d} \leq 5 V Voltage drop at IL Voltage drop I_L = 100 mA, switching U_d ... 5 V element on Operating current I_{L} 2 ... 200 mA Off-state current 0 ... 0.5 mA I_r Switching state indicator 2 LED, yellow Functional safety related parameters 1133 a MTTF_d 20 a Mission Time (T_M) 0 % Diagnostic Coverage (DC) Compliance with standards and directives Standard conformity Standards EN IEC 60947-5-2 Approvals and certificates **UL** approval cULus Listed, General Purpose CCC approval Certified by China Compulsory Certification (CCC) **Ambient conditions** Ambient temperature -25 ... 85 °C (-13 ... 185 °F) Mechanical specifications Connection type screw terminals Information for connection A maximum of two conductors with the same core cross section may be mounted on one terminal connection! tightening torque 1.2 Nm + 10 % Core cross section up to 2.5 mm² Minimum core cross-section without wire end ferrules 0.5 mm², with connector sleeves 0.34 mm² Maximum core cross-section without wire end ferrules 2.5 mm², with connector sleeves 1.5 mm² PA/metal with epoxy powder coating Housing material PA Sensing face Housing base plastic IP68 / IP69K Degree of protection Mass 225 g **Dimensions** Height 40 mm 40 mm Width Length 118 mm Note Tightening torque: 1.8 Nm (housing)

Connection

