# To Danker Balling Ball

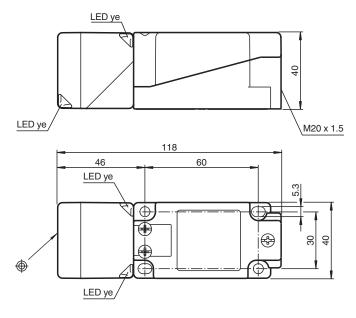
# Inductive sensor

# NBB20-U1-Z2

- Sensor head bidirectional and rotatable
- 20 mm flush
- 2-wire DC
- 2 LEDs indicator for 360° visibility



# Dimensions



# **Technical Data**

	Normally open/closed (NO/NC)
	Two-wire
Sn	20 mm
	flush
	DC
Sa	0 16.2 mm
$s_r$	18 22 mm typ. 20 mm
	0.3
	0.3
	0.7
	2-wire
$U_B$	5 60 V DC
	S <sub>a</sub>

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

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#### Technical Data Switching frequency f 0 ... 250 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<sub>L</sub> = 100 mA, switching $U_d$ ... 5 V element on Operating current 2 ... 200 mA Off-state current 0 ... 0.5 mA $I_r$ Switching state indicator 2 LED, yellow Functional safety related parameters 1162 a $\mathsf{MTTF}_\mathsf{d}$ 20 a Mission Time (T<sub>M</sub>) 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 mm<sup>2</sup> Minimum core cross-section without wire end ferrules 0.5 mm<sup>2</sup>, with connector sleeves 0.34 mm<sup>2</sup> Maximum core cross-section without wire end ferrules 2.5 mm<sup>2</sup>, with connector sleeves 1.5 mm<sup>2</sup> 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

