

Inductive sensor

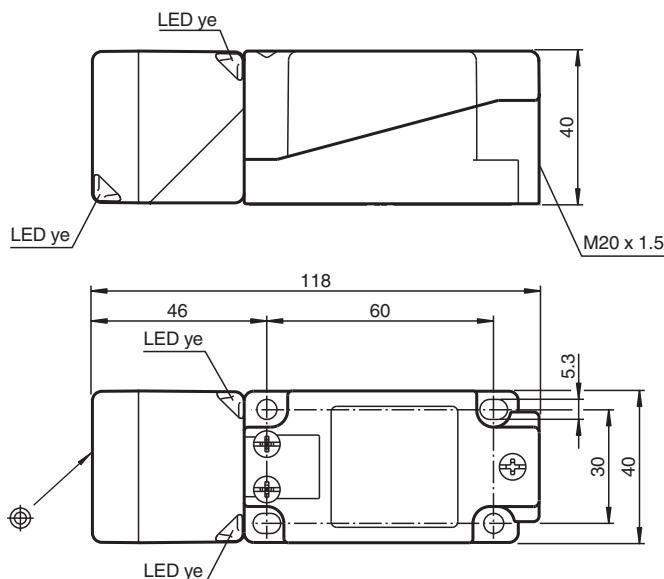
NBN40-U1-Z2



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



Dimensions



Technical Data

Release date: 2024-05-27 Date of issue: 2024-05-28 Filename: 203096_eng.pdf

General specifications

Switching function	Normally open/closed (NO/NC)	
Output type	Two-wire	
Rated operating distance	s_n	40 mm
Installation	non-flush	
Output polarity	DC	
Assured operating distance	s_a	0 ... 32.4 mm
Actual operating distance	s_r	36 ... 44 mm
Reduction factor r_{AI}		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 DC
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical Data

Switching frequency	f	0 ... 100 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity tolerant
Short-circuit protection		yes
Voltage drop	U _d	≤ 5 V
Voltage drop at I _L		
Voltage drop I _L = 100 mA, switching element on	U _d	... 5 V
Operating current	I _L	2 ... 200 mA
Off-state current	I _r	0 ... 0.5 mA
Switching state indicator		2 LED, yellow
Functional safety related parameters		
MTTF _d		1170 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
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 ²
Minimum core cross-section		without wire end ferrules 0.5 mm ² , with connector sleeves 0.34 mm ²
Maximum core cross-section		without wire end ferrules 2.5 mm ² , with connector sleeves 1.5 mm ²
Housing material		PA/metal with epoxy powder coating
Sensing face		PA
Housing base		plastic
Degree of protection		IP68 / IP69K
Mass		225 g
Dimensions		
Height		40 mm
Width		40 mm
Length		118 mm
Note		Tightening torque: 1.8 Nm (housing)

Connection

