

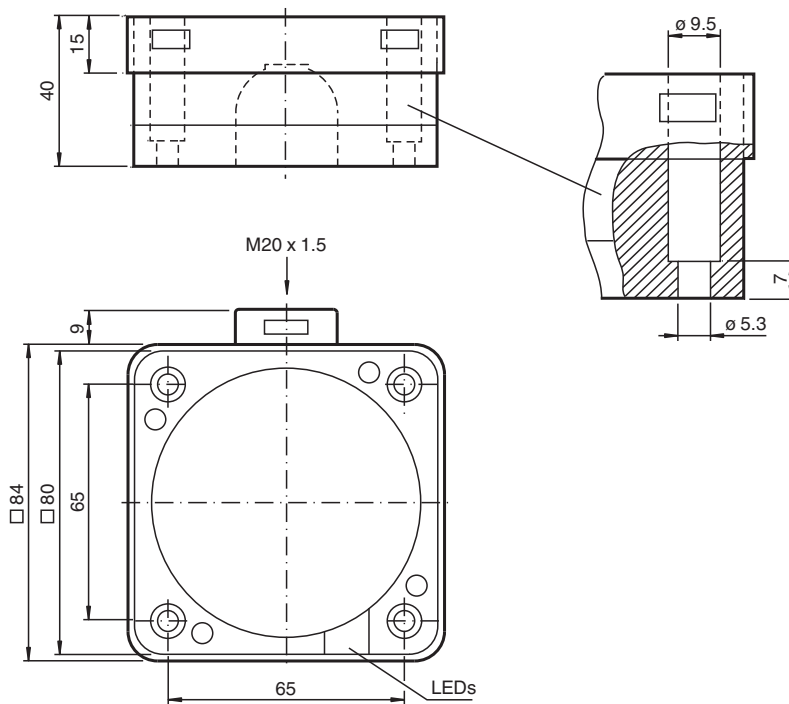
Inductive sensor

NCB50-FP-Z2-P1

- 50 mm flush
- 2-wire DC



Dimensions



Technical Data

General specifications

Switching function		Normally open/closed (NO/NC)
Output type		Two-wire
Rated operating distance	s_n	50 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 40.5 mm
Actual operating distance	s_r	45 ... 55 mm typ.
Reduction factor r_{Al}		0.4
Reduction factor r_{Cu}		0.35
Reduction factor r_{304}		0.8
Output type		2-wire

Nominal ratings

Operating voltage	U_B	10 ... 60 V DC
Switching frequency	f	0 ... 80 Hz

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

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Technical Data

Hysteresis	H	0 ... 20 typ. 5 %
Reverse polarity protection		reverse polarity tolerant
Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 3.8 \text{ V}$
Voltage drop at I_L		
Voltage drop $I_L = 20 \text{ mA}$, switching element on	U_d	2.7 ... 4.9 V
Operating current	I_L	2 ... 200 mA
Lowest operating current	I_m	2 mA
Off-state current	I_r	$\leq 0.6 \text{ mA}$
Time delay before availability	t_v	$\leq 300 \text{ ms}$
Switching state indicator		LED, yellow

Compliance with standards and directives

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
CSA approval		cCSAus Listed, General Purpose
CCC approval		Certified by China Compulsory Certification (CCC)

Ambient conditions

Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage 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 ferrule 0.5 mm ² , with connector sleeves 0.34 mm ²
Maximum core cross-section		without wire end ferrule 2.5 mm ² , with connector sleeves 1.5 mm ²
Housing material		PBT
Sensing face		PBT
Housing base		PBT
Degree of protection		IP68
Protection class		II

Connection

