

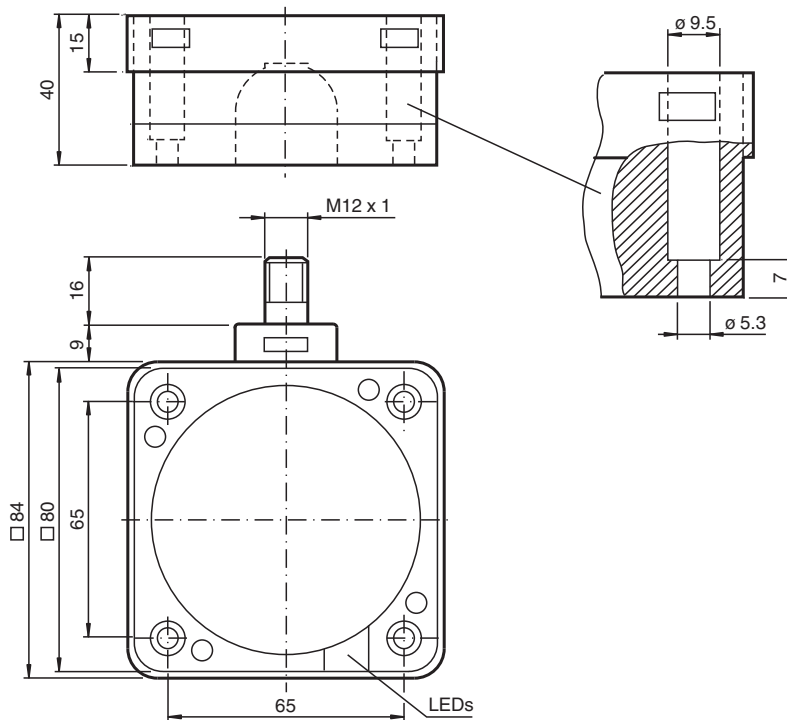
Inductive sensor

NCB50-FP-Z5-V1

- 50 mm flush
- 2-wire DC



Dimensions



Technical Data

General specifications

Switching function		Normally closed (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
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
Hysteresis	H	0 ... 20 % typ. 5 %
Reverse polarity protection		reverse polarity tolerant

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

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PEPPERL+FUCHS

Technical Data

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	$2.7 \dots 4.9\text{ V}$
Operating current	I_L	$2 \dots 200\text{ mA}$
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

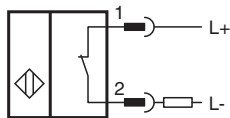
Compliance with standards and directives		
Standard conformity		
Standards	EN IEC 60947-5-2	

Approvals and certificates		
UL approval	cULus Listed, General Purpose	
CCC approval	Certified by China Compulsory Certification (CCC)	

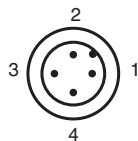
Ambient conditions		
Ambient temperature	$-25 \dots 70\text{ }^{\circ}\text{C}$ ($-13 \dots 158\text{ }^{\circ}\text{F}$)	
Storage temperature	$-25 \dots 85\text{ }^{\circ}\text{C}$ ($-13 \dots 185\text{ }^{\circ}\text{F}$)	

Mechanical specifications		
Connection type	Connector plug	
Housing material	PBT	
Sensing face	PBT	
Housing base	PBT	
Degree of protection	IP68	
Connector		
Threading	M12 x 1	
Number of pins	4	
Mass	524 g	
Dimensions		
Height	40 mm	
Width	84 mm	
Length	84 mm	

Connection



Connection Assignment



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Connection Assignment

Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)