

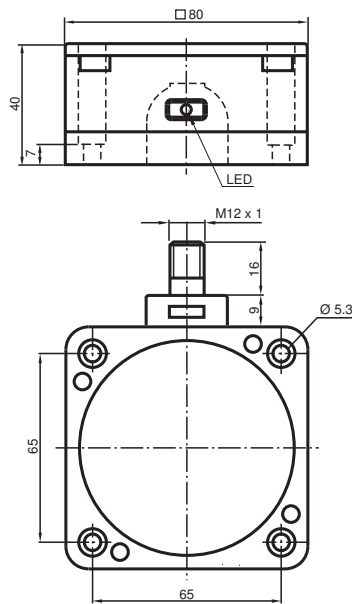
Inductive sensor

NCN50-FP-N0-P4-V1

■ 50 mm non-flush



Dimensions



Technical Data

General specifications		
Switching function		Normally closed (NC)
Output type		NAMUR
Rated operating distance	s_n	50 mm
Installation		non-flush
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		
Installation conditions		
A		40 mm
B		150 mm
F		240 mm
Nominal voltage	U_o	8.2 V (R_i approx. 1 k Ω)
Switching frequency	f	0 ... 80 Hz
Hysteresis	H	0 ... 5 typ. 3 %
Reverse polarity protection		reverse polarity protected

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

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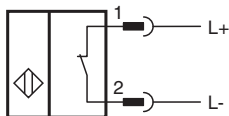
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PEPPERL+FUCHS

Technical Data

Short-circuit protection		yes
Current consumption		
Measuring plate not detected		$\geq 3 \text{ mA}$
Measuring plate detected		$\leq 1 \text{ mA}$
Time delay before availability	t_v	$\leq 20 \text{ ms}$
Switching state indicator		LED, yellow
Compliance with standards and directives		
Standard conformity		
NAMUR		EN 60947-5-6:2000 IEC 60947-5-6:1999
Electromagnetic compatibility		NE 21:2007
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		
FM approval		
Control drawing		116-0165
UL approval		
Ordinary Location		E87056
Hazardous Location		E501628
Control drawing		116-0451
CSA approval		cCSAus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated $\leq 36 \text{ V}$
Ambient conditions		
Ambient temperature		$-25 \dots 100 \text{ }^\circ\text{C}$ ($-13 \dots 212 \text{ }^\circ\text{F}$)
Storage temperature		$-40 \dots 100 \text{ }^\circ\text{C}$ ($-40 \dots 212 \text{ }^\circ\text{F}$)
Mechanical specifications		
Connection type		Connector plug M12 x 1, 4-pin
Housing material		PBT/metal
Sensing face		PBT
Housing base		aluminum painted
Degree of protection		IP67
General information		
Use in the hazardous area		see instruction manuals

Connection



Wire colors in accordance with EN 60947-5-6

1	BN	(brown)
2	BU	(blue)

Accessories

	V1-G-N-2M-PUR	Female cordset, M12, 2-pin, NAMUR, PUR cable
	V1-W-N-2M-PUR	Female cordset, M12, 2-pin, NAMUR, PUR cable

Release date: 2020-05-04 Date of issue: 2020-05-05 Filename: 184679_eng.pdf