

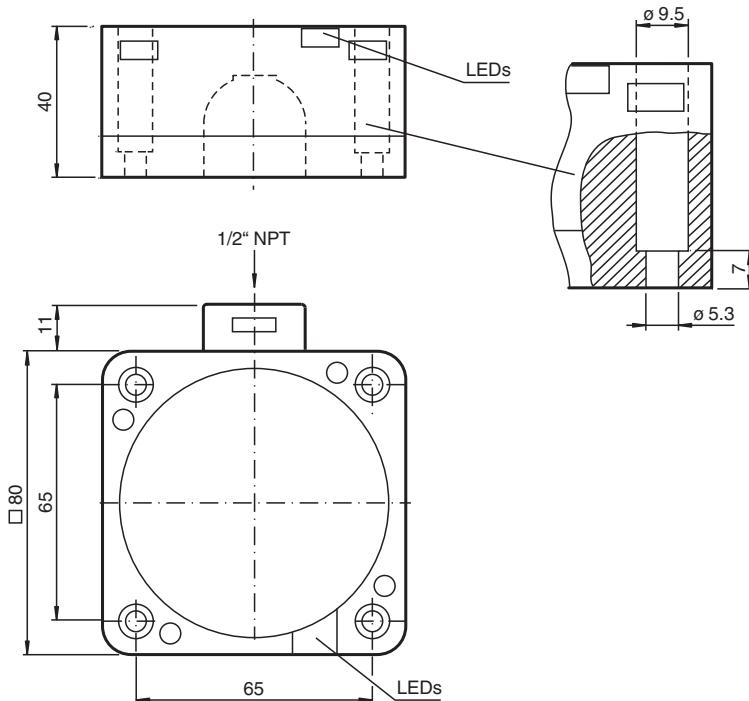
# Inductive sensor NCN50-FP-W-P4



- Comfort series
- 50 mm non-flush
- 2-wire AC



## Dimensions



## Technical Data

Release date: 2024-05-27 Date of issue: 2024-05-31 Filename: 182960\_eng.pdf

### General specifications

Switching function	Normally open/closed (NO/NC)	
Output type	Two-wire	
Rated operating distance	$s_n$	50 mm
Installation	non-flush	
Output polarity	AC	
Assured operating distance	$s_a$	0 ... 40.5 mm
Reduction factor $r_{AI}$	0.4	
Reduction factor $r_{Cu}$	0.3	
Reduction factor $r_{304}$	0.85	

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

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 PEPPERL+FUCHS

## Technical Data

Output type	2-wire	
<b>Nominal ratings</b>		
Operating voltage AC	$U_B$	20 ... 253 V
Switching frequency	$f$	0 ... 20 Hz
Hysteresis	$H$	typ. 3 %
Voltage drop	$U_d$	$\leq 5 \text{ V}$ typ. 4 V
Momentary current (20 ms, 0.1 Hz)		max. 4000 mA
Operating current	$I_L$	5 ... 500 mA
Off-state current	$I_r$	0.3 ... 1 mA typ. 0.7 mA
Time delay before availability	$t_v$	$\leq 100 \text{ ms}$
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN IEC 60947-5-2
<b>Approvals and certificates</b>		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		Certified by China Compulsory Certification (CCC)
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>		
Connection type		screw terminals
Core cross section		max. 2.5 mm <sup>2</sup>
Housing material		PBT/metal
Sensing face		PBT
Housing base		metal
Degree of protection		IP68
Tightening torque, housing screws		1 Nm
Dimensions		
Height		40 mm
Width		80 mm
Length		80 mm
Note	1) In the temperature range below 0 °C, permissible operating voltage $U_B$ 80...253 V Safety fuse $\leq 2 \text{ A}$ (quick-blow) according to IEC 60127-2 Sheet 1 Recommendation: after a short circuit, check that the device is functioning correctly.	

## Connection

