

1
.1.2



Proximity Sensors, Inductive Sensors, rectangular types

Properties

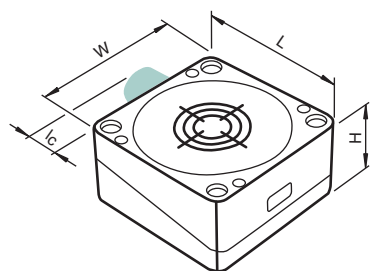
- Flat pack housing
- 40 mm, flush and 50 mm, non-flush mountable versions
- DC, NAMUR interface
- Terminal compartment and connector versions

Your Benefit

- ATEX approval up to zone 0 / zone 20

Further Products

In this series, we offer additionally:
NCB40-FP-N0-P1
 Technical data like NCB40-FP-N0-P4 but:
 Housing base: PBT



Technical Data

For detailed data and product description refer to the data sheets at www.pepperl-fuchs.com

General Data

Switching element function	NAMUR, NC
Type of voltage	DC
Nominal voltage	8.2 V (R _i approx. 1 kΩ)
Current consumption	
Measuring plate not detected	≥ 3 mA
Measuring plate detected	≤ 1 mA
Housing material	PBT/metal
Protection degree	IP67

Model Number

		NJ50-FP-N-P4	NCB40-FP-N0-P4	NCN50-FP-N0-P4	NCN50-FP-N0-P4-V1
Rated operating distance	40 mm		●		
	50 mm	●			
Installation	flush		●		
	non-flush	●		●	●
Switching frequency	0 ... 100 Hz	●			
	0 ... 80 Hz		●	●	●
Indication of the switching state	LED, yellow		●	●	●
Ambient temperature	-25 ... 100 °C (-13 ... 212 °F)		●	●	●
	-25 ... 70 °C (-13 ... 158 °F)	●			
Connection type	Device connector M12 x 1 , 4-pin				●
	screw terminals	●	●	●	

Use in the Hazardous Area

Use in the hazardous area	see instruction manuals	●	●	●	●
Category	1G; 2G; 1D	●	●	●	●

Approvals and Certificates

Control drawing	116-0165F	●	●	●	●
UL approval	cULus Listed, General Purpose	●	●	●	●
CSA approval	cCSAus Listed, General Purpose	●	●	●	●
CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.				

Dimensions

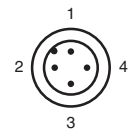
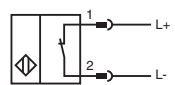
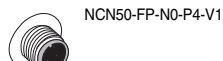
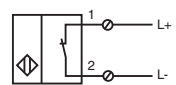
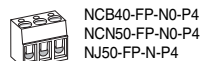
Length L [mm]	80
Width W [mm]	80
Height H [mm]	40
Connector area l _c [mm]	25

Accessories

This and more accessories can be found in chapter 10
 See pages from 972 ... for cordsets See pages 1068 ... for mounting aids

V1-G-BK	4-pin, M12 female field-attachable connector
V1-W-BK	4-pin, M12 female field-attachable connector
V1-G-N-2M-PUR	Cable socket, M12, 2-pin, NAMUR, PUR cable
V1-W-N-2M-PUR	Cable socket, M12, 2-pin, NAMUR, PUR cable

Electrical Connection



Wire colors in accordance with EN 60947-5-6
 1 | BN (brown)
 2 | BU (blue)