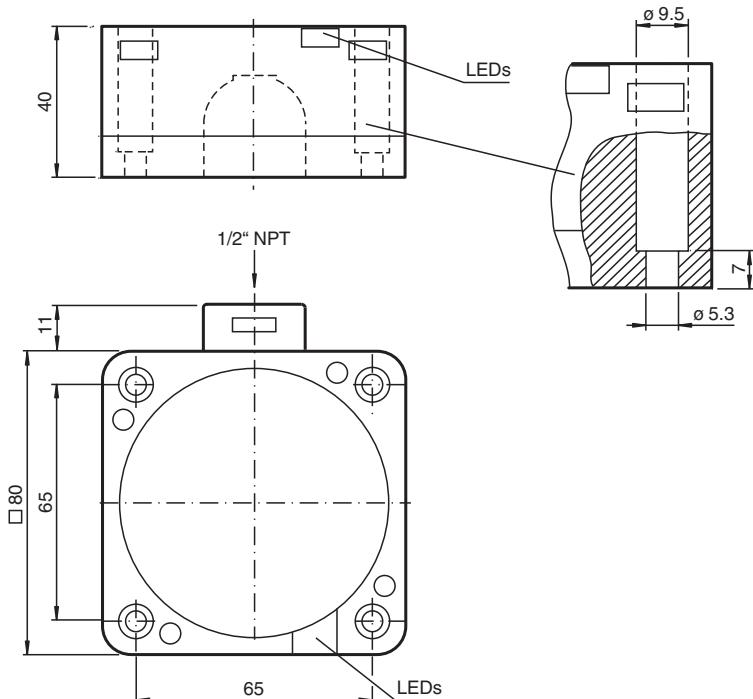


Inductive sensor NCB40-FP-W-P2

■ Comfort series



Dimensions



Technical Data

Release date: 2024-05-28 Date of issue: 2024-06-02 Filename: 130544_eng.pdf

General specifications

| | | |
|----------------------------|------------------------------|---------------|
| Switching function | Normally open/closed (NO/NC) | |
| Output type | Two-wire | |
| Rated operating distance | s_n | 40 mm |
| Installation | flush | |
| Output polarity | AC | |
| Assured operating distance | s_a | 0 ... 32.4 mm |
| Reduction factor r_{AI} | 0.25 | |
| Reduction factor r_{Cu} | 0.23 | |
| Reduction factor r_{304} | 0.85 | |

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

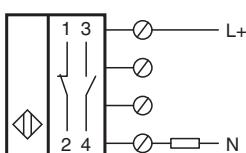
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

 PEPPERL+FUCHS

Technical Data

| | | |
|---|---|--------------------------------|
| Output type | 2-wire | |
| Nominal ratings | | |
| Operating voltage | U_B | 20 ... 253 V |
| Switching frequency | f | 0 ... 20 Hz |
| Hysteresis | H | typ. 3 % |
| Short-circuit protection | | no |
| Voltage drop | U_d | ≤ 5 V typ. 4V |
| Momentary current (20 ms, 0.1 Hz) | | max. 4000 mA |
| Operating current | I_L | 5 ... 500 mA |
| Off-state current | I_i | 0.3 ... 1 mA typ. 0.7 mA |
| Time delay before availability | t_v | ≤ 100 ms |
| Operating voltage indicator | | LED, green |
| 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 | |
| CSA approval | cCSAus Listed, General Purpose | |
| Ambient conditions | | |
| Ambient temperature | | -25 ... 70 °C (-13 ... 158 °F) |
| Mechanical specifications | | |
| Connection type | | screw terminals |
| Core cross section | | up to 2.5 mm ² |
| Housing material | | PBT |
| Sensing face | | PBT |
| Housing base | | PBT |
| Degree of protection | | IP68 |
| 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 ≤ 2 A (quick-blow) according to IEC 60127-2 Sheet 1 Recommendation: after a short circuit, check that the device is functioning correctly. | |

Connection



Additional Information

These sensors are especially designed for embeddable mounting in conveyor floors. Due to its precise location in metal base plates the sensor is afforded a high degree of mechanical protection. No clearance is required between the sensor and the base plate, avoiding the need for protective guarding to prevent possible foot injury.

The large sensing range ensures positive detection, and thus provides consistent control and monitoring of the conveyor.

