

Inductive sensor

NCB50-FP-E2-C-P3-V1

- 50 mm flush
- 3-wire DC
- Weld Immune
- Optimum use at a distance >50 cm

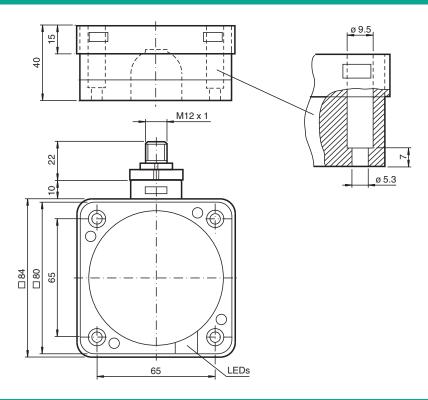








Dimensions

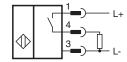


Technical Data

| Normally open (NO) PNP 50 mm |
|------------------------------|
| 50 mm |
| |
| |
| flush |
| DC |
| 0 40.5 mm |
| 0.38 |
| 0.35 |
| 0.83 |
| |

| Output type | | 3-wire |
|--|----------------|---|
| Nominal ratings | | |
| Operating voltage | U_B | 10 30 V DC |
| Switching frequency | f | 0 1 Hz |
| Hysteresis | Н | typ. 3 % |
| Reverse polarity protection | | reverse polarity protected |
| Short-circuit protection | | pulsing |
| Voltage drop | U_d | ≤3 V |
| Operating current | IL | 0 200 mA |
| Off-state current | l _r | 0 0.5 mA |
| No-load supply current | I ₀ | ≤ 20 mA |
| Time delay before availability | t _v | ≤1s |
| Tuning-out | | ≥ 50 ms |
| Operating voltage indicator | | LED, green |
| Switching state indicator | | LED, yellow |
| Functional safety related parameters | | |
| MTTF _d | | 940 a |
| Mission Time (T _M) | | 20 a |
| Diagnostic Coverage (DC) | | 0 % |
| Compliance with standards and directives | | |
| Standard conformity | | |
| Standards | | EN 60947-5-2:2007 IEC 60947-5-2:2007 |
| 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 | | Connector plug M12 x 1 , 4-pin |
| Housing material | | PBT/metal |
| Sensing face | | PBT, active surface PTFE coated |
| Housing base | | metal |
| Degree of protection | | IP68 |

Connection





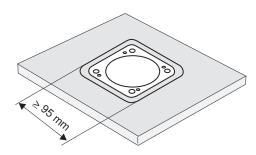
Wire colors in accordance with EN 60947-5-2

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

Mounting

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.



Warning! Once the metal screening has been removed, the sensor can no longer be embeddable mounted.

Accessories

| V1-G-2M-PUR | Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable grey |
|-------------|---|
| V1-W-2M-PUR | Female cordset single-ended M12 angled A-coded, 4-pin, PUR cable grey |