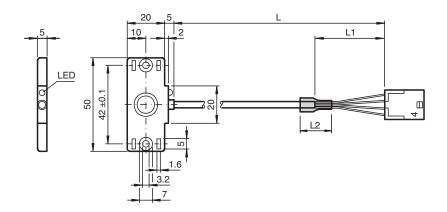
Capacitive sensor

CBN5-F46-E2-360MM-4MOL-Y

- 5 mm non-flush
- 3-wire DC with additional wire for Teach-In
- Adjustable measurement range via external teach input
- Mounting slots for cable ties
- Thru-holes for screw mounting
- Molex connector



Dimensions



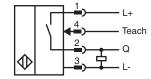
Technical Data

General specifications

| Switching function | | Normally open (NO) |
|-----------------------------|----------------|----------------------------|
| Output type | | PNP |
| Identification Number | | 6200337 REV. A |
| Rated operating distance | s _n | 5 mm |
| Installation | | non-flush |
| Output polarity | | DC |
| Assured operating distance | sa | 0 3.5 mm |
| Output type | | 3-wire |
| Nominal ratings | | |
| Installation conditions | | |
| В | | 0 mm |
| С | | 10 mm |
| F | | 20 mm / 50 mm |
| Operating voltage | U _B | 10 30 V DC |
| Switching frequency | f | 0 50 Hz |
| Hysteresis | Н | 5 15 typ. 10 % |
| Reverse polarity protection | | reverse polarity protected |
| Short-circuit protection | | pulsing |
| Voltage drop | U_{d} | ≤ 2 V |
| | | |

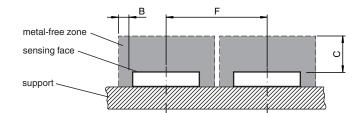
| Technical Data | | |
|---|----------------|---|
| Operating current | IL | 0 100 mA |
| Lowest operating current | I_{m} | 0 mA |
| Off-state current | l _r | 0 0.5 mA typ. 0.04 mA |
| Off-state current T_U =40 °C, switching element off | | ≤ 100 µA |
| No-load supply current | I_0 | ≤ 15 mA |
| Time delay before availability | t_{v} | ≤ 80 ms |
| 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, Class 2 Power Source |
| CCC approval | | CCC approval / marking not required for products rated ≤36 V |
| Ambient conditions | | |
| Ambient temperature | | -25 70 °C (-13 158 °F) |
| Storage temperature | | -40 85 °C (-40 185 °F) |
| Mechanical specifications | | |
| Connection type | | fixed cable with plug |
| Housing material | | PBT |
| Sensing face | | PBT |
| Degree of protection | | IP67 |
| Connector | | |
| Number of pins | | 4 |
| Connection assembly | | Molex connector 43640-0401 Molex contact 43031-0004 |
| Cable | | |
| Cable diameter | | $3.5 \text{ mm} \pm 0.2 \text{ mm}$ |
| Bending radius | | > 10 x cable diameter |
| Material | | PVC |
| Color | | grey |
| Number of cores | | 4 |
| Core cross section | | 0.14 mm ² |
| Length | L | 362 mm ± 6 mm further length specifications: L1 = approx. 30 mm L2 = approx. 13 mm |

Connection



Release date: 2022-12-02 Date of issue: 2022-12-02 Filename: 70156340_eng.pdf

Installation Conditions



Release date: 2022-12-02 Date of issue: 2022-12-02 Filename: 70156340_eng.pdf

Teach-In

Teach-In Instructions

- 1. For Teach-In connect pin WH to pin L+ with target at desired distance for 2.5 s ... 5 s.
- ->LED is in green light mode.
- 2. Release connection between first (2.5 s) and second flash (5 s).
- -> LED will flash (5 times in quick sucession) if process is successful.

Note

Holding the connection 5 s ... 7.5 s resets the setting. If during Teach-In on product target is out of range (> 6 mm), LED (yellow light) will blink slowly 3 times. The taught sensing distance is stored in the sensor. The Teach-in value is still available when the power supply is turned off. The endurance of this non-volatile memory is rated for more than 100,000 teach-in repetitions.