

# Capacitive sensor

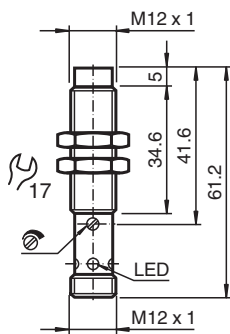
## CBN8-12GH60-E2-V1



- 8 mm non-flush
- Operating distance adjustable via potentiometer
- Suitable for foodstuff conditions
- Resistant against aggressive media



### Dimensions



### Technical Data

#### General specifications

|                            |                    |               |
|----------------------------|--------------------|---------------|
| Switching function         | Normally open (NO) |               |
| Output type                |                    | PNP           |
| Rated operating distance   | $s_n$              | 8 mm          |
| Installation               |                    | non-flush     |
| Output polarity            |                    | DC            |
| Assured operating distance | $s_a$              | 0 ... 6.48 mm |
| Output type                |                    | 3-wire        |

#### Nominal ratings

|                             |       |                            |
|-----------------------------|-------|----------------------------|
| Installation conditions     |       |                            |
| A                           |       | 8 mm                       |
| B                           |       | 10 mm                      |
| C                           |       | 20 mm                      |
| F                           |       | 25 mm                      |
| Operating voltage           | $U_B$ | 10 ... 36 V DC             |
| Switching frequency         | $f$   | 0 ... 50 Hz                |
| Reverse polarity protection |       | reverse polarity protected |
| Short-circuit protection    |       | pulsing                    |
| Voltage drop                | $U_d$ | $\leq 2.5$ V               |
| Operating current           | $I_L$ | 0 ... 100 mA               |

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

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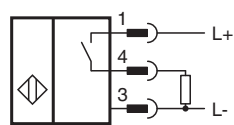
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 **PEPPERL+FUCHS**

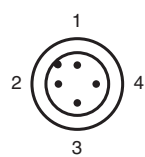
Technical Data

|                                          |       |                                                                                    |
|------------------------------------------|-------|------------------------------------------------------------------------------------|
| No-load supply current                   | $I_0$ | $\leq 12\text{ mA}$                                                                |
| Switching state indicator                |       | LED, yellow                                                                        |
| Indicators/operating means               |       |                                                                                    |
| Potentiometer                            |       | sensitivity adjustment                                                             |
| Compliance with standards and directives |       |                                                                                    |
| Standard conformity                      |       |                                                                                    |
| Standards                                |       | EN IEC 60947-5-2                                                                   |
| Approvals and certificates               |       |                                                                                    |
| UL approval                              |       | cULus Listed, General Purpose                                                      |
| Ambient conditions                       |       |                                                                                    |
| Ambient temperature                      |       | $-25 \dots 70\text{ }^{\circ}\text{C}$ ( $-13 \dots 158\text{ }^{\circ}\text{F}$ ) |
| Mechanical specifications                |       |                                                                                    |
| Connection type                          |       | Connector plug M12 x 1 , 4-pin                                                     |
| Housing material                         |       | Stainless steel 1.4404 / AISI 316L                                                 |
| Sensing face                             |       | PEEK                                                                               |
| Degree of protection                     |       | IP65                                                                               |
| Dimensions                               |       |                                                                                    |
| Length                                   |       | 61.2 mm                                                                            |
| Diameter                                 |       | 12 mm                                                                              |

Connection



Connection Assignment

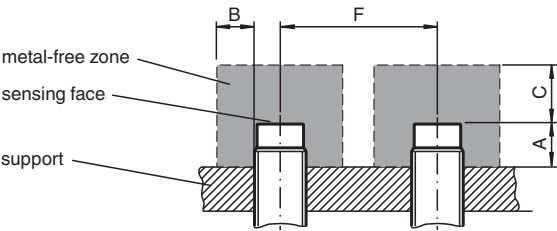


Wire colors in accordance with EN 60947-5-2

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

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Installation



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