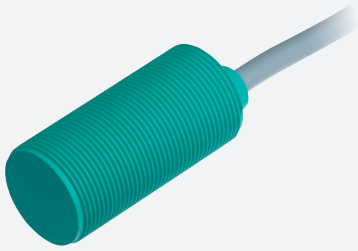


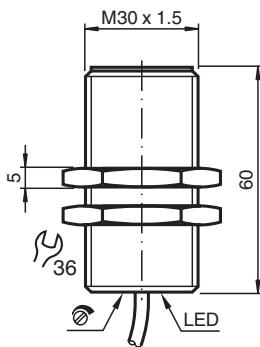
# Capacitive sensor CBN15-30GK60-E0



- 15 mm non-flush
- Operating distance adjustable via potentiometer
- High EMC resistance



## Dimensions



## Technical Data

### General specifications

|                            |                    |               |
|----------------------------|--------------------|---------------|
| Switching function         | Normally open (NO) |               |
| Output type                |                    | NPN           |
| Rated operating distance   | $s_n$              | 15 mm         |
| Installation               |                    | non-flush     |
| Output polarity            |                    | DC            |
| Assured operating distance | $s_a$              | 0 ... 12.1 mm |
| Output type                | 3-wire             |               |

### Nominal ratings

|                             |       |                            |
|-----------------------------|-------|----------------------------|
| Installation conditions     |       |                            |
| A                           |       | 18 mm                      |
| B                           |       | 10 mm                      |
| C                           |       | 30 mm                      |
| F                           |       | 60 mm                      |
| Operating voltage           | $U_B$ | 10 ... 30 V DC             |
| Switching frequency         | $f$   | 0 ... 10 Hz                |
| Reverse polarity protection |       | reverse polarity protected |
| Short-circuit protection    |       | pulsing                    |
| Voltage drop                | $U_d$ | $\leq 2.8$ V               |
| Operating current           | $I_L$ | 0 ... 200 mA               |

Release date: 2024-05-27 Date of issue: 2024-05-27 Filename: 189950\_eng.pdf

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

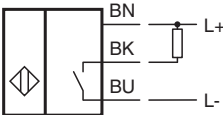
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

**PEPPERL+FUCHS**

Technical Data

|                                                      |       |                                                                    |
|------------------------------------------------------|-------|--------------------------------------------------------------------|
| Off-state current                                    | $I_r$ | 0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C                             |
| Off-state current $T_U=40$ °C, switching element off |       | $\leq 100$ $\mu$ A                                                 |
| No-load supply current                               | $I_0$ | $\leq 20$ mA                                                       |
| Time delay before availability                       | $t_v$ | $\leq 50$ ms                                                       |
| 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                                      |
| CCC approval                                         |       | CCC approval / marking not required for products rated $\leq 36$ V |
| Ambient conditions                                   |       |                                                                    |
| Ambient temperature                                  |       | -25 ... 70 °C (-13 ... 158 °F)                                     |
| Storage temperature                                  |       | -40 ... 85 °C (-40 ... 185 °F)                                     |
| Mechanical specifications                            |       |                                                                    |
| Connection type                                      |       | cablе PVC , 2 m                                                    |
| Core cross section                                   |       | 0.75 mm <sup>2</sup>                                               |
| Housing material                                     |       | PBT                                                                |
| Sensing face                                         |       | PBT                                                                |
| Degree of protection                                 |       | IP67                                                               |
| Cable                                                |       |                                                                    |
| Cable diameter                                       |       | 6.4 mm $\pm$ 0.2 mm                                                |
| Bending radius                                       |       | > 10 x cable diameter                                              |
| Dimensions                                           |       |                                                                    |
| Length                                               |       | 60 mm                                                              |
| Diameter                                             |       | 30 mm                                                              |

Connection



Installation

