



### Model Number

**CBN15-18GS75-E2-V1**

### Features

- 15 mm non-flush
- The switching distance can be set over a wide range with the potentiometer

### Accessories

#### BF 18

Mounting flange, 18 mm

#### V1-G

Female connector, M12, 4-pin, field attachable

#### V1-W

Female connector, M12, 4-pin, field attachable

#### V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

#### V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

## Technical Data

### General specifications

|                          |                    |
|--------------------------|--------------------|
| Switching function       | Normally open (NO) |
| Output type              | PNP                |
| Rated operating distance | $s_n$ 2 ... 15 mm  |
| Installation             | non-flush          |
| Output polarity          | DC                 |
| Output type              | 3-wire             |

### Nominal ratings

|                                |   |
|--------------------------------|---|
| Installation conditions        |   |
| A                              | 30 mm                                     |
| B                              | 18 mm                                     |
| C                              | 30 mm                                     |
| F                              | 36 mm                                     |
| Operating voltage              | $U_B$ 10 ... 30 V                         |
| Switching frequency            | $f$ 0 ... 100 Hz                          |
| Reverse polarity protection    | reverse polarity protected                |
| Short-circuit protection       | pulsing                                   |
| Voltage drop                   | $U_d$ $\leq$ 1.5 V                        |
| Temperature drift              | max. 20 % at -5 ... 55 °C (23 ... 131 °F) |
| Operating current              | $I_L$ 0 ... 100 mA                        |
| No-load supply current         | $I_0$ $\leq$ 15 mA                        |
| Time delay before availability | $t_v$ $\leq$ 300 ms                       |

### Functional safety related parameters

|                                |       |
|--------------------------------|-------|
| MTTF <sub>d</sub>              | 226 a |
| Mission Time (T <sub>M</sub> ) | 20 a  |
| Diagnostic Coverage (DC)       | 0 %   |

### Indicators/operating means

|               |                            |
|---------------|----------------------------|
| LED green     | Operating display          |
| LED yellow    | indication switching state |
| Potentiometer | sensitivity adjustment     |

### Ambient conditions

|                     |                                |
|---------------------|--------------------------------|
| Ambient temperature | -25 ... 85 °C (-13 ... 185 °F) |
|---------------------|--------------------------------|

### Mechanical specifications

|                      |                                   |
|----------------------|-----------------------------------|
| Connection type      | Connector plug M12 x 1, 3-pin     |
| Housing material     | Stainless steel 1.4305 / AISI 303 |
| Sensing face         | PBT                               |
| Degree of protection | IP67                              |

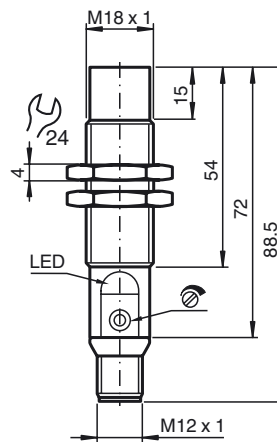
### Compliance with standards and directives

|                     |   |
|---------------------|---|
| Standard conformity |   |
| Standards           | EN 60947-5-2:2007<br>EN 60947-5-2/A1:2012<br>IEC 60947-5-2:2007<br>IEC 60947-5-2 AMD 1:2012 |

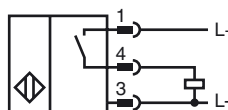
### Approvals and certificates

|              |  |
|--------------|--|
| UL approval  | cULus Listed, General Purpose                                      |
| CCC approval | CCC approval / marking not required for products rated $\leq$ 36 V |

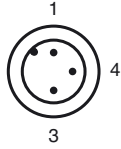
## Dimensions



## Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

Installation Conditions

