



## Model Number

CCN15-30GS60-A2

## Features

- 15 mm non-flush
- Operating distance adjustable via potentiometer
- High EMC resistance
- Stainless steel version
- Complementary outputs
- Operating voltage range 10 V ... 60 V DC

## Accessories

### BF 30

Mounting flange, 30 mm

## Technical Data

### General specifications

|                            |       |               |
|----------------------------|-------|---------------|
| Switching element function | PNP   | NO/NC         |
| Rated operating distance   | $s_n$ | 15 mm         |
| Installation               |       | non-flush     |
| Output polarity            |       | DC            |
| Assured operating distance | $s_a$ | 0 ... 12.1 mm |

### Nominal ratings

|                                                        |       |                                        |
|--------------------------------------------------------|-------|----------------------------------------|
| Installation conditions                                |       |                                        |
| A                                                      |       | 18 mm                                  |
| B                                                      |       | 10 mm                                  |
| C                                                      |       | 30 mm                                  |
| F                                                      |       | 60 mm                                  |
| Operating voltage                                      | $U_B$ | 10 ... 60 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                           |
| 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                            |

### Functional safety related parameters

|                          |       |
|--------------------------|-------|
| MTTF <sub>d</sub>        | 750 a |
| Mission Time ( $T_M$ )   | 20 a  |
| Diagnostic Coverage (DC) | 0 %   |

### Indicators/operating means

|               |                        |
|---------------|------------------------|
| Potentiometer | sensitivity adjustment |
|---------------|------------------------|

### Ambient conditions

|                     |                                |
|---------------------|--------------------------------|
| Ambient temperature | -25 ... 70 °C (-13 ... 158 °F) |
| Storage temperature | -40 ... 85 °C (-40 ... 185 °F) |

### Mechanical specifications

|                      |                                   |
|----------------------|-----------------------------------|
| Connection type      | cable PVC, 2 m                    |
| Core cross-section   | 0.75 mm <sup>2</sup>              |
| Housing material     | Stainless steel 1.4305 / AISI 303 |
| Sensing face         | PBT                               |
| Degree of protection | IP67                              |

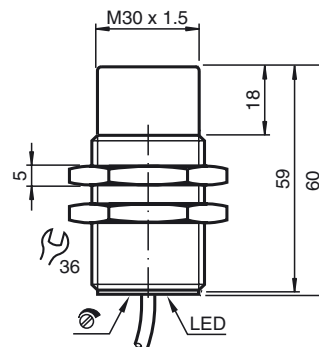
### Compliance with standards and directives

|                     |                                         |
|---------------------|-----------------------------------------|
| Standard conformity |                                         |
| Standards           | EN 60947-5-2:2007<br>IEC 60947-5-2:2007 |

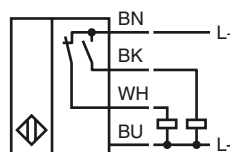
### Approvals and certificates

|              |                                                   |
|--------------|---------------------------------------------------|
| UL approval  | cULus Listed, General Purpose                     |
| CSA approval | cCSAus Listed, General Purpose                    |
| CCC approval | Certified by China Compulsory Certification (CCC) |

## Dimensions



## Electrical Connection





Installation Conditions

