



# CQ55 series

15 x 35 x 55 mm cubic  
capacitive sensors



15 x 35 x 55 mm cubic

## features

- DC supply voltage
- Adjustable sensitivity
- Flat polycarbonate plastic housing



## web contents



- Application notes
- Photos
- Catalogue / Manuals



## code description

|              | CQ | 55                                                          | / | B | P | - | 3 | E |
|--------------|----|-------------------------------------------------------------|---|---|---|---|---|---|
| series       | CQ | Capacitive sensor (rectangular)                             |   |   |   |   |   |   |
| dimens.      | 55 | 55 x 35 x 15 mm                                             |   |   |   |   |   |   |
| output state | B  | NO + NC complementary output                                |   |   |   |   |   |   |
| output logic | P  | PNP logic                                                   |   |   |   |   |   |   |
|              | N  | NPN logic                                                   |   |   |   |   |   |   |
| distance     | 3  | Long distance 4...25 mm (shielded 16 mm - unshielded 25 mm) |   |   |   |   |   |   |
| connect.     | A  | Cable exit                                                  |   |   |   |   |   |   |
|              | E  | M12 plug exit                                               |   |   |   |   |   |   |

## available models

| supply      | installation          | distance (mm) | connection | NPN NO + NC | PNP NO + NC |
|-------------|-----------------------|---------------|------------|-------------|-------------|
| 10...40 Vcc | shielded / unshielded | 4...25        | 2 m cable  | CQ55/BN-3A  | CQ55/BP-3A  |
|             |                       |               | M12 plug   | CQ55/BN-3E  | CQ55/BP-3E  |



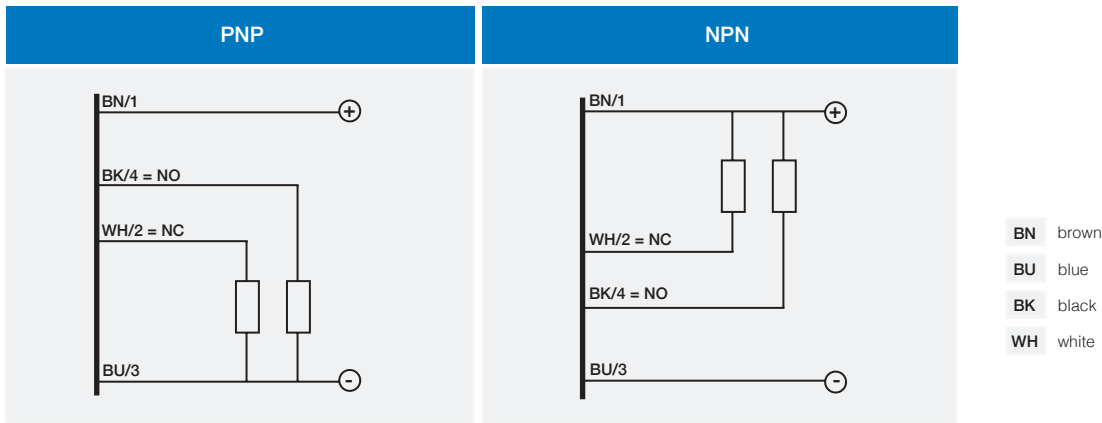
15 x 35 x 55 mm cubic

## technical specification

according to IEC EN 60947-5-2

|                             | CQ55/**-3*                                                                         |
|-----------------------------|------------------------------------------------------------------------------------|
|                             |  |
| nominal sensing distance Sn | 25 mm                                                                              |
| hysteresis                  | ≤ 20%                                                                              |
| repeatability               | 5%                                                                                 |
| operating voltage           | 5 Vdc                                                                              |
| max ripple content          | ≤ 10 %                                                                             |
| no-Load supply current      | ≤ 10 mA                                                                            |
| load current                | ≤ 200 mA                                                                           |
| leakage current             | ≤ 10 µA                                                                            |
| output voltage drop Ud      | 2..5 V max @ IL= 200 mA                                                            |
| output type                 | NPN or PNP - NO + NC                                                               |
| switching frequency         | 50 Hz                                                                              |
| power on delay              | ≤ 100 ms                                                                           |
| power supply protections    | polarity reversal, impulsive overvoltage                                           |
| output protection           | autoreset short circuit, overvoltage                                               |
| sensitivity adjustment      | ●                                                                                  |
| storage temperature         | -40 ... +85° C                                                                     |
| operating temperature range | -25 ... +80° C (without freeze)                                                    |
| temperature drift           | ≤ 20 %                                                                             |
| EMC                         | in conformity with the EMC Directive, according to EN 60947-5-2                    |
| protection degree           | IP67 (EN 60529) NEMA 1,3,4,6,13                                                    |
| LEDs                        | yellow (output status LOn/DOn)                                                     |
| housing material            | PC                                                                                 |
| active head material        | PC                                                                                 |
| weight                      | 65 g connector / 150 g cable                                                       |

## electrical diagrams of connections

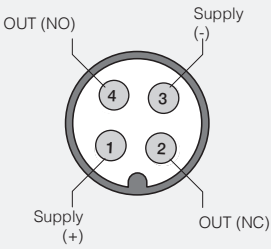


CQ55

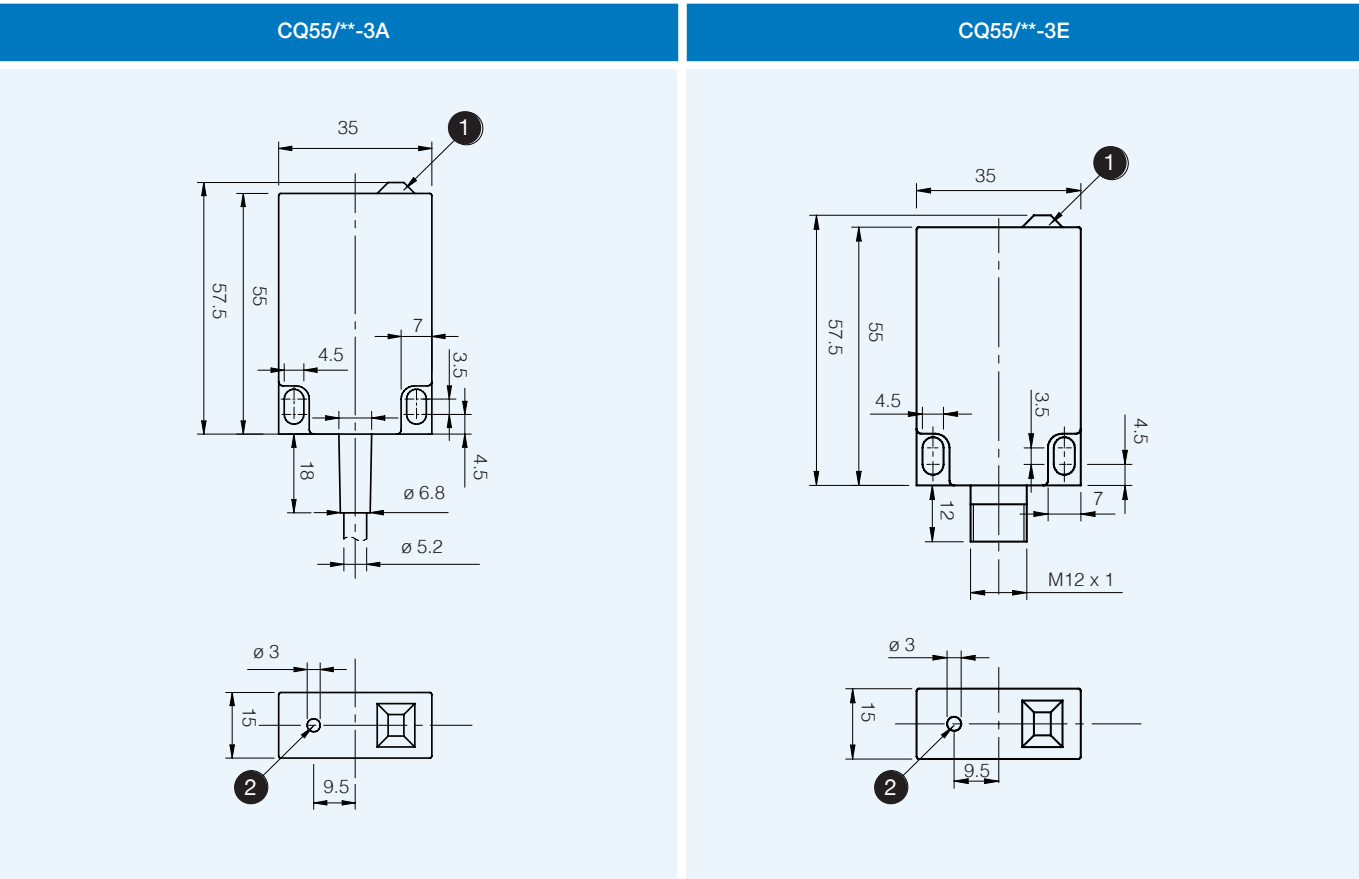


15 x 35 x 55 mm cubic

M12 CQ55/\*\*-E



dimensions (mm)



- 1 LED
- 2 TRIMMER