

Plastic cylindrical shape capacitive sensors **CR34S** series



Features

- ◆ Be able to detect both metal and nonmetal objects;
- ◆ Be able to detect various media via nonmetallic container;



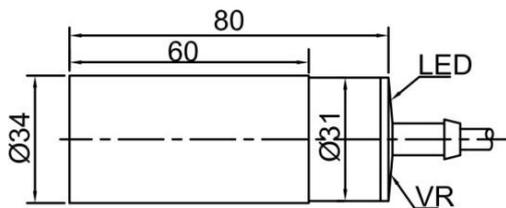
Part number

|           |              |              |           |              |              |
|-----------|--------------|--------------|-----------|--------------|--------------|
| NPN NO    | CQ34SCF15DNO | CQ34SCN20DNO | PNP NO    | CQ34SCF15DPO | CQ34SCN20DPO |
| NPN NC    | CQ34SCF15DNC | CQ34SCN20DNC | PNP NC    | CQ34SCF15DPC | CQ34SCN20DPC |
| NPN NO+NC | CQ34SCF15DNR | CQ34SCN20DNR | PNP NO+NC | CQ34SCF15DPR | CQ34SCN20DPR |

Technical specifications

|                            |                               |                   |                         |                                              |
|----------------------------|-------------------------------|-------------------|-------------------------|----------------------------------------------|
| Mounting                   | Flush                         | Non-flush         | Consumption current     | ≤15mA                                        |
| Rated distance [Sn]        | 15mm (adjustable)             | 20mm (adjustable) | Circuit protection      | Short-circuit, overload and reverse polarity |
| Assured distance [Sa]      | 0...12mm                      | 0...16mm          | Output indicator        | Yellow LED                                   |
| Dimensions                 | Φ34*80mm                      | Φ34*80 mm         | Ambient temperature     | -25℃...70℃                                   |
| Output                     | NO/NC(depends on part number) |                   | Ambient humidity        | 35-95%RH                                     |
| Supply voltage             | 10...30 VDC                   |                   | Switching frequency [F] | 50 Hz                                        |
| Standard target            | Fe45*45*1t                    | Fe 60*60*1t       | Voltage withstand       | 1000V/AC 50/60Hz 60S                         |
| Switch-point drifts [%/Sr] | ±20%                          |                   | Insulation resistance   | ≥50MΩ (500VDC)                               |
| Hysteresis range [%/Sr]    | 3...20%                       |                   | Vibration resistance    | 10...50Hz (1.5mm)                            |
| Repeat accuracy [R]        | ≤3%                           |                   | Degree of protection    | IP67                                         |
| Load current               | ≤200mA                        |                   | Housing material        | PBT                                          |
| Residual voltage           | ≤2.5V                         |                   | Connection type         | 2m PVC cable                                 |

Dimensions



Wiring diagram

