

## Plastic cylindrical shape capacitive sensors **CR30S** series



### Features

- ◆ Be able to detect both metal and nonmetal objects;
- ◆ Extended sensing distance;
- ◆ Reliable liquid level detecting;
- ◆ Widely applied in warehouse, animal husbandry industry etc;

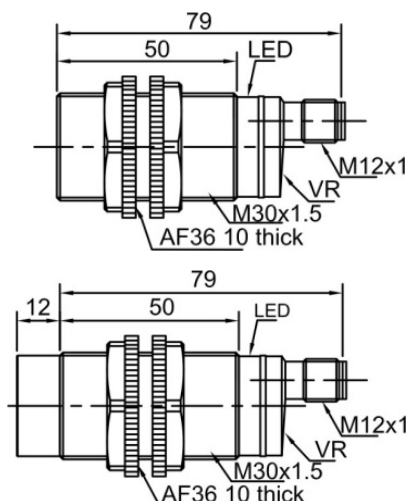
### Part number

|     |       |                  |                  |     |       |                  |                  |
|-----|-------|------------------|------------------|-----|-------|------------------|------------------|
| NPN | NO    | CR30SCF15DNOY-E2 | CR30SCN22DNOY-E2 | PNP | NO    | CR30SCF15DPOY-E2 | CR30SCN22DPOY-E2 |
| NPN | NC    | CR30SCF15DNKY-E2 | CR30SCN22DNKY-E2 | PNP | NC    | CR30SCF15DPKY-E2 | CR30SCN22DPKY-E2 |
| NPN | NO+NC | CR30SCF15DNRY-E2 | CR30SCN22DNRY-E2 | PNP | NO+NC | CR30SCF15DPRY-E2 | CR30SCN22DPRY-E2 |

### Technical specifications

|                            |                               |                  |                         |                                              |
|----------------------------|-------------------------------|------------------|-------------------------|----------------------------------------------|
| Mounting                   | Flush                         | Non-flush        | Consumption current     | ≤15mA                                        |
| Rated distance [Sn]        | 15mm (adjustable)             | 22mm(adjustable) | Circuit protection      | Short-circuit, overload and reverse polarity |
| Assured distance [Sa]      | 0...12mm                      | 0...17.6mm       | Output indicator        | Yellow LED                                   |
| Dimensions                 | M30*79mm                      | M30*91 mm        | Ambient temperature     | -25°C...70°C                                 |
| Output                     | NO/NC(depends on part number) |                  | Ambient humidity        | 35-95%RH                                     |
| Supply voltage             | 10...30 VDC                   |                  | Switching frequency [F] | 50 Hz                                        |
| Standard target            | Fe 45*45*1t                   | Fe 66*66*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]        | ≤5%                           |                  | Degree of protection    | IP67                                         |
| Load current               | ≤200mA                        |                  | Housing material        | PBT                                          |
| Residual voltage           | ≤2.5V                         |                  | Connection type         | M12 connector                                |

### Dimensions



### Wiring diagram

