# Plastic cylindrical shape capacitive sensors **CR12S** 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；

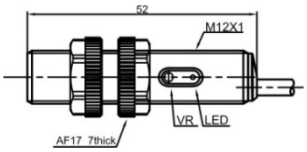
## Part number

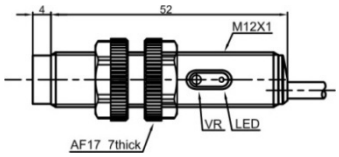
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NPN | NO | CR12SCF04DNOY | CR12SCN08DNOY | PNP | NO | CR12SCF04DPOY | CR12SCN08DPOY |
| NPN | NC | CR12SCF04DNCY | CR12SCN08DNCY | PNP | NC | CR12SCF04DPCY | CR12SCN08DPCY |

## Technical specifications

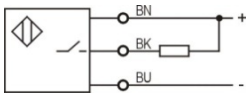
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|---|---|---|---|---|
| Mounting | Flush | Non-flush | Consumption current | ≤15mA |
| Rated distance [Sn] | 4mm (adjustable) | 8mm(adjustable) | Circuit protection | Short-circuit, overload and reverse polarity |
| Assured distance [Sa] | 0…3.2mm | 0…6.4mm | Output indicator | Yellow LED |
| Dimensions | M12*52mm | M12*56 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 | Fe 12*12*1t | Fe 24*24*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 | 2m PVC cable |

## Dimensions

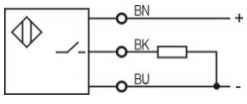


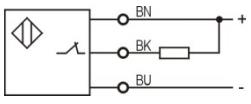

## Wiring diagram



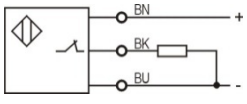

NPN NO




PNP NO




NPN NC




PNP NC