# LANBAO

# Plastic cylindrical shape capacitive sensors **CR18S** series

## Features

◆ Be able to detect both metal and nonmetal objects;

◆ Be able to detect various media via nonmetallic container;
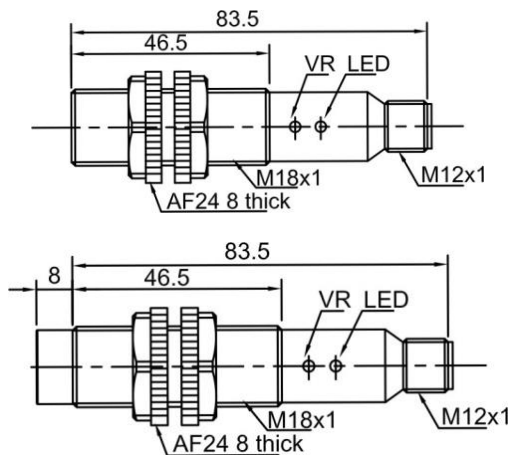
◆ Reliable liquid level detecting;

CE  UL

## Part number

| NPN | NO | CR18SCF05DNO-E2 | CR18SCN08DNO-E2 | PNP | NO | CR18SCF05DPO-E2 | CR18SCN08DPO-E2 |
|-----|-----|-----------------|-----------------|-----|-----|-----------------|-----------------|
| NPN | NC | CR18SCF05DNC-E2 | CR18SCN08DNC-E2 | PNP | NC | CR18SCF05DPC-E2 | CR18SCN08DPC-E2 |
| NPN | NO+NC | CR18SCF05DNR-E2 | CR18SCN08DNR-E2 | PNP | NO+NC | CR18SCF05DPR-E2 | CR18SCN08DPR-E2 |

## Technical specifications

| | | | | |
|---|---|---|---|---|
| Mounting | Flush | Non-flush | Consumption current | ≤15mA |
| Rated distance [Sn] | 5mm (adjustable) | 8mm (adjustable) | Circuit protection | Short-circuit, overload and reverse polarity |
| Assured distance [Sa] | 0…4mm | 0…6.4mm | Output indicator | Yellow LED |
| Dimensions | M18*83.5mm | M18*91.5 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 | Fe18*18*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] | ≤3% | | Degree of protection | IP67 |
| Load current | ≤200mA | | Housing material | PBT |
| Residual voltage | ≤2.5V | | Connection type | M12 connector |

## Dimensions

83.5
46.5
VR LED
M18x1
M12x1
AF24 8 thick

8
83.5
46.5
VR LED
M18x1
M12x1
AF24 8 thick

## Wiring diagram

NPN NO

PNP NO

NPN NC

PNP NC

NPN NO+NC

PNP NO+NC