

Plastic cylindrical shape capacitive sensors **CR18S** 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;

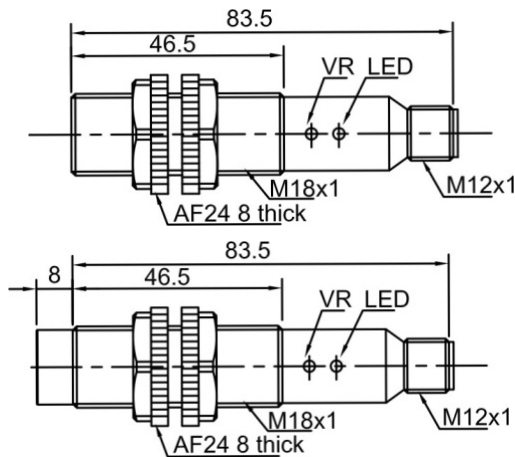
Part number

NPN NO	CR18SCF08DNOY-E2	CR18SCN12DNOY-E2	PNP NO	CR18SCF08DPOY-E2	CR18SCN12DPOY-E2
NPN NC	CR18SCF08DNCY-E2	CR18SCN12DNCY-E2	PNP NC	CR18SCF08DPCY-E2	CR18SCN12DPCY-E2
NPN NO+NC	CR18SCF08DNRY-E2	CR18SCN12DNRY-E2	PNP NO+NC	CR18SCF08DPRY-E2	CR18SCN12DPRY-E2

Technical specifications

Mounting	Flush	Non-flush	Consumption current	≤15mA
Rated distance [Sn]	8mm (adjustable) 12mm(adjustable)		Circuit protection	Short-circuit, overload and reverse polarity
Assured distance [Sa]	0...6.4mm	0...9.6mm	Output indicator	Yellow LED
Dimensions	M18*83.5mm	M18*91.5 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 24*24*1t	Fe36*36*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

