

Metal cylindrical shape capacitive sensors **CR18** series



Features

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

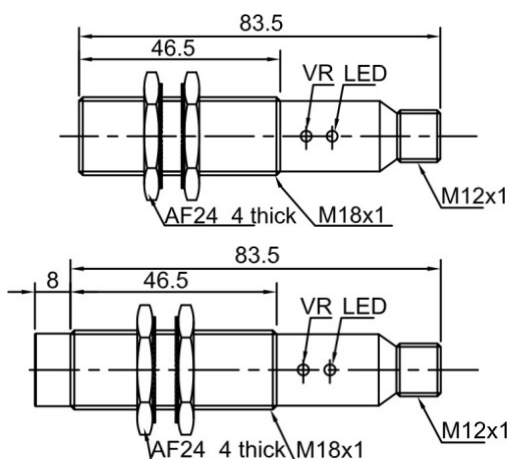
Part number

NPN	NO	CR18CF05DNO-E2	CR18CN08DNO-E2	PNP	NO	CR18CF05DPO-E2	CR18CN08DPO-E2
NPN	NC	CR18CF05DNC-E2	CR18CN08DNC-E2	PNP	NC	CR18CF05DPC-E2	CR18CN08DPC-E2
NPN	NO+NC	CR18CF05DNR-E2	CR18CN08DNR-E2	PNP	NO+NC	CR18CF05DPR-E2	CR18CN08DPR-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°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	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	Nick-copper alloy
Residual voltage	≤2.5V		Connection type	M12 connector

Dimensions



Wiring diagram

