

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	CR18CN08DNO	PNP NO	CR18CF05DPO	CR18CN08DPO	
NPN NC	CR18CF05DNC	CR18CN08DNC	PNP NC	CR18CF05DPC	CR18CN08DPC	
NPN NO+NC	CR18CF05DNR	CR18CN08DNR	PNP NO+NC	CR18CF05DPR	CR18CN08DPR	

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*70mm	M18*78 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	2m PVC cable	

Dimensions	Wiring diagram