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；

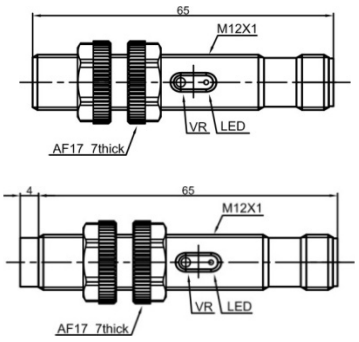
Part number

NPN	NO	CR12SCF04DNOY-E2	CR12SCN08DNOY-E2	PNP	NO	CR12SCF04DPOY-E2	CR12SCN08DPOY-E2
NPN	NC	CR12SCF04DNCY-E2	CR12SCN08DNCY-E2	PNP	NC	CR12SCF04DPCY-E2	CR12SCN08DPCY-E2

Technical specifications

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	M12 connector

Dimensions



Wiring diagram

