## CR12X series cylindrical capacitive sensor



Feature description

- One-piece housing with high-brightness LED indicator
- IP67 protection class which is effectively moisture-proof and dust-proof
- Enhance detection distance. Sensitivity adjustment adopts multi-turn potentiometer so as to reach higher adjustment accuracy
- High reliability, excellent EMC design with protection against short circuit, overloaded and reverse polarity
- Widely used in both metal and non-metal (plastic, powder, liquid, etc.) material testing

Model specification					
NPN NO	CR1 2 XCN0 8 DNOY-E2	PNP NO	CR1 2 XCN0 8 DPOY-E2		
NPN NC	CR12XCN08DNCY-E2	PNP NC	CR1 2 XCN0 8 DPCY- E2		

Specifications				
Installation type	Non- flush	Indicator	Output indication: Yellow LED	
Rated distance Sn	8mm®	Switching frequency	25Hz	
Ensure distance Sa	≤5.76mm	Ambient temperature	When working: -2570 $^{\circ}\text{C}$ (No icing, No condensation)	
Adjust the distance	312mm		When storing:-3080°C (No icing, No condensation)	
Adjustment method	Single- turn potentiometer	Environment humidity	3595%RH(No icing, No condensation)	
Standard test object	Fe 24*24*1t(Grounded) <sup>®</sup>	Vibration resistant	1055Hz,Dual amplitude 1mm(2 hours	
Supply voltage	1030VDC		each in X, Y, and Z directions)	
Load current	≤200mA	Impulse withsand	30g/11ms,3 times each for X,Y,Z direction	
Residual voltage	≤2V	High pressure resistant	1000V/AC 50/60Hz 60s	
Consumption current	≤20mA	Insulation resistance	≥50MΩ(500VDC)	
Switch point offset [%/Sn]	≤±10%	Shape specification	M12*1*80mm	
Temperature drift [%/Sr]	≤±20%	Protection degree	IP67	
Hysteresis range [%/Sr]	320%	Housing material	Nickel copper alloy	
Repetitive error [R]	≤5%	Connection type	M12 Connector	
Circuit protection	Short circuit protection, Overload protection,	Accessories	M12 nuts×2, Slotted screwdriver, Operation manual	
	Reverse polarity protection			

Note: ①the factory default sensing distance is  $\rm Sn\pm\,10\,\%$ 

② unit: mm

## Dimensions Wiring diagram 80 NPN NO PNP NO Potentiometer Output indicator (Yellow LED) NPN NC PNP NC PNP NC