cylindrical capacitive sensor CR12X series

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

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Model specification

NPN NO	CR12XCN08DNOY-E2	PNP NO	CR12XCN08DPOY-E2
NPN NC	CR12XCN08DNCY-E2	PNP NC	CR12XCN08DPCY-E2

Specifications

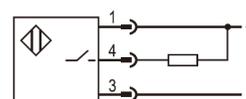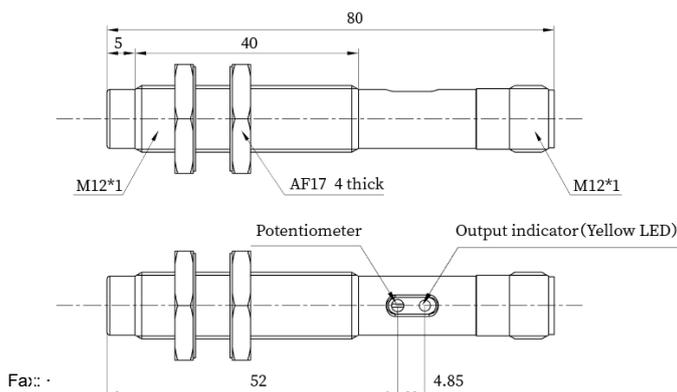|			
Installation type	Non-flush	Indicator	Output indication:Yellow LED
Rated distance Sn	8mm①	Switching frequency	25Hz
Ensure distance Sa	≤5.76mm	Ambient temperature	When working:-25...70℃(No icing, No condensation)
Adjust the distance	3...12mm		When storing:-30...80℃(No icing, No condensation)
Adjustment method	Single-turn potentiometer	Environment humidity	35...95%RH(No icing, No condensation)
Standard test object	Fe 24*24*1t(Grounded)②	Vibration resistant	10...55Hz,Dual amplitude 1mm(2 hours
Supply voltage	10...30VDC		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]	3...20%	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		

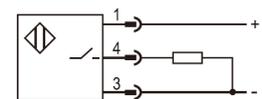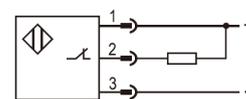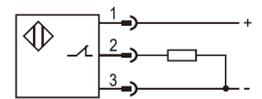Note: ①the factory default sensing distance is Sn±10%

②unit:mm

Dimensions

Wiring diagram

NPN NO

PNP NO

NPN NC

PNP NC