

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	CR12XCF04DNOY	PNP NO	CR12XCF04DPOY
NPN NC	CR12XCF04DNCY	PNP NC	CR12XCF04DPCY

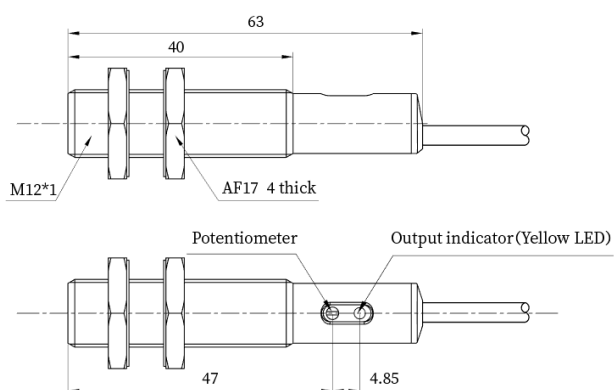
Specifications

Installation type	Flush	Indicator	Output indication:Yellow LED
Rated distance S_n	4mm ^①	Switching frequency	25Hz
Ensure distance S_a	≤2.88mm	Ambient temperature	When working:-25...70°C(No icing, No condensation)
Adjust the distance	1...6 mm		When storing:-30...80°C(No icing, No condensation)
Adjustment method	Single-turn potentiometer	Environment humidity	35...95%RH(No icing, No condensation)
Standard test object	Fe 12*12*1t(Grounded) ^②	Vibration resistant	10...55Hz,Dual amplitude 1mm(2 hours each in X, Y, and Z directions)
Supply voltage	10...30VDC		
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*63mm
Temperature drift [%/Sr]	±20%	Protection degree	IP67
Hysteresis range [%/Sr]	3...20%	Housing material	Nickel copper alloy
Repetitive error [R]	≤5%	Connection type	2m PVC Cable
Circuit protection	Short circuit protection, Overload protection, Reverse polarity protection	Accessories	M12 nuts×2, Slotted screwdriver, Operation manual

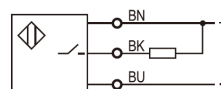
Note: ①the factory default sensing distance is $S_n \pm 10\%$

②unit:mm

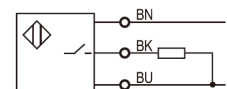
Dimensions



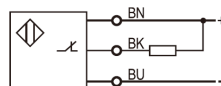
Wiring diagram



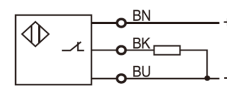
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PNP NO



NPN NC



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