

Ёмкостные датчики с улучшенной частотой CR12X/8X

Технические характеристики

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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	CR12XCF04DNOG	PNP NO	CR12XCF04DPOG
NPN NC	CR12XCF04DNCG	PNP NC	CR12XCF04DPCG

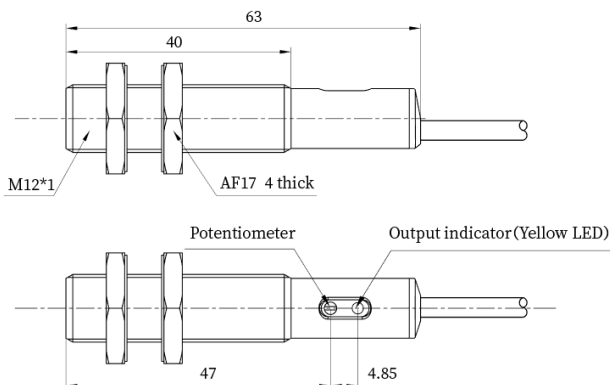
Specifications

Installation type	Flush	Indicator	Output indication:Yellow LED
Rated distance S_n	4mm ^①	Switching frequency	100Hz
Ensure distance S_a	≤2.88mm	Ambient temperature	When working:-25...70°C(No icing, No condensation)
Adjust the distance	1.5...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	Impulse withsand	30g/11ms,3 times each for X,Y,Z direction
Load current	≤200mA	High pressure resistant	1000V/AC 50/60Hz 60s
Residual voltage	≤2V	Insulation resistance	≥50MΩ(500VDC)
Consumption current	≤20mA	Shape specification	M12*1*63mm
Switch point offset [%/Sn]	±±10%	Protection degree	IP67
Temperature drift [%/Sr]	±±20%	Housing material	Nickel copper alloy
Hysteresis range [%/Sr]	3...20%	Connection type	2m PVC Cable
Repetitive error [R]	≤5%	Accessories	M12 nuts×2, Slotted screwdriver, Operation manual
Circuit protection	Short circuit protection, Overload protection, Reverse polarity protection		

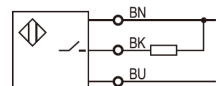
Note: ①the factory default sensing distance is $S_n \pm 10\%$

②unit:mm

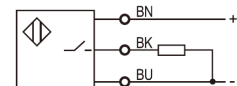
Dimensions



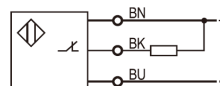
Wiring diagram



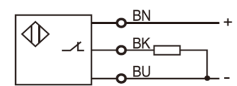
NPN NO



PNP NO



NPN NC



PNP NC

CR18X series cylindrical capacitive sensor



Feature description

- Integrated housing matches double highlighted LED indicator
- IP67 protection class which is effectively moisture-proof and dust-proof
- The maximum operating voltage can be 40VDS which can effectively prevent the influence from power ripple
- 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	CR18XCF08DNOG	PNP NO	CR18XCF08DPOG
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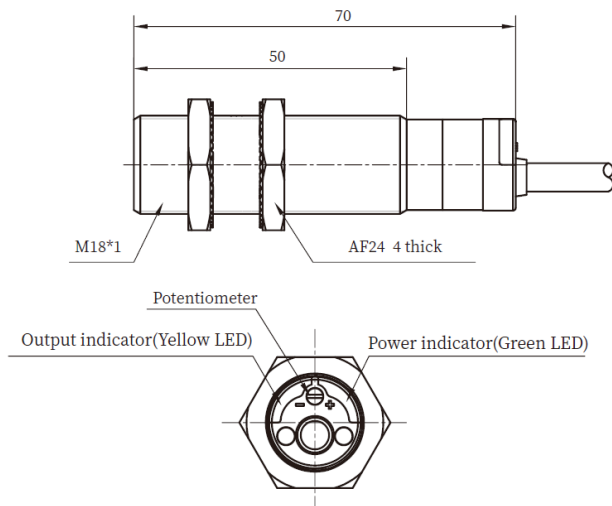
Specifications

Installation type	Flush	Circuit protection	Short circuit protection, Overload protection,
Rated distance Sn	8mm [ⓐ]		Reverse polarity protection
Ensure distance Sa	≤5.76mm	Indicator	Output indication:Yellow LED;Power indicator:Green LED
Adjust the distance	3...12mm		Overload or short circuit indication:Yellow LED flashes
Adjustment method	Multi-turn potentiometer (Electrical adjustment > 10)	Switching frequency	100Hz
Shape specification	M18*70mm	Ambient temperature	When working:-25...70°C(No icing, No condensation)
Standard test object	Fe360 24*24*1t(Grounded) [ⓑ]		When storing:-30...80°C(No icing, No condensation)
Supply voltage	10...30VDC	Environment humidity	35...95%RH(No icing, No condensation)
Load current	≤200mA	Vibration resistant	10...55Hz,Dual amplitude 1mm(2 hours each in X, Y, and Z directions)
Residual voltage	≤2V	Impulse withsand	30g/11ms,3 times each for X,Y,Z direction
Consumption current	≤20mA	High pressure resistant	1000V/AC 50/60Hz 60s
Switch point offset [%/Sn]	±±10%	Protection degree	IP67
Temperature drift [%/Sr]	±±20%	Housing material	Nickel copper alloy
Hysteresis range [%/Sr]	3...20%	Connection type	2m PVC Cable
Repetitive error [R]	≤6%	Accessories	M18 nuts×2, Slotted screwdriver, Operation manual

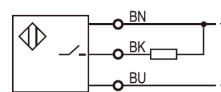
Note: [ⓐ]the factory default sensing distance is Sn±10%

[ⓑ]unit:mm

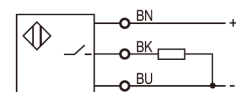
Dimensions



Wiring diagram



NPN NO



PNP NO

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