# **(L**ANBAO

## **CR12XS series cylindrical capacitive sensor**



### Feature description

- One-piece housing with high-brightness LED indicator
- IP68 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	CR12XSCF04DNOY	PNP NO	CR12XSCF04DPOY
NPN NC	CR12XSCF04DNCY	PNP NC	CR12XSCF04DPCY

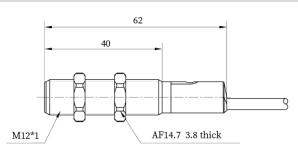
## **Specifications**

Specifications			
Installation type	Flush	Indicator	Output indication:Yellow LED
Rated distance Sn	4mm <sup>®</sup>	Switching frequency	20Hz
Ensure distance Sa	≤2.88mm	Ambient temperature	When working:-2570°C(No icing, No condensation)
Adjust the distance	16 mm		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 12*12*1t(Grounded)®	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*62mm
Temperature drift [%/Sr]	≤±20%	Protection degree	IP68
Hysteresis range [%/Sr]	320%	Housing material	PBT
Repetitive error [R]	≤5%	Connection type	2m PVC Cable
Circuit protection	Short circuit protection, Overload protection,	Accessories	M12 nuts×2, Slotted screwdriver, Operation manual
	Reverse polarity protection		

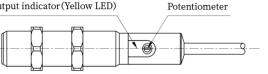
Note: ①the factory default sensing distance is Sn±10%

②unit:mm

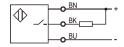
### Dimensions



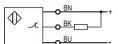
#### Output indicator (Yellow LED)



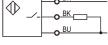
## Wiring diagram







NPN NC



- BN

PNP NO



PNP NC