

CR18XS series cylindrical capacitive sensor



Feature description

- Integrated housing matches double highlighted LED indicator
- IP68 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

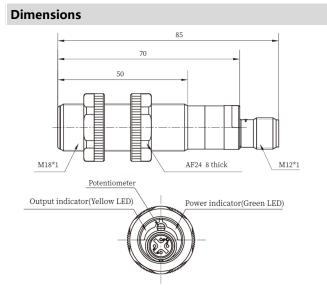


Model specification				
NPN NO	CR18XSCF08DNOY-E2	PNP NO	CR18XSCF08DPOY-E2	
NPN NC	CR18XSCF08DNCY-E2	PNP NC	CR18XSCF08DPCY-E2	
NPN NO+NC	CR18XSCF08DNRY-E2	PNP NO+NC	CR18XSCF08DPRY-E2	

Specifications				
Installation type	Flush	Indicator	Output indication:Yellow LED;Power indicator:Green LED	
Rated distance Sn	8mm [®]		Overload or short circuit indication:Yellow LED flashes	
Ensure distance Sa	≤5.76mm	Switching frequency	20Hz	
Adjust the distance	312mm	Ambient temperature	When working:-2570°C(No icing, No condensation)	
Adjustment method	Multi-turn potentiometer		When storing:-3080°C(No icing, No condensation)	
	(Electrical adjustment > 10)	Environment humidity	3595%RH(No icing, No condensation)	
Standard test object	Fe 24*24*1t(Grounded) ²	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	M18*1*85mm	
Temperature drift [%/Sr]	≤±20%	Protection degree	IP68	
Hysteresis range [%/Sr]	320%	Housing material	PBT	
Repetitive error [R]	≤5%	Connection type	M12 Connector	
Circuit protection	Short circuit protection, Overload protection,	Accessories	M18 nuts×2, Slotted screwdriver, Operation manual	
	Reverse polarity protection			

Note: ①the factory default sensing distance is $Sn\pm10\%$

②unit:mm



Wiring diagram

