

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	CR18XCF08DNCG	PNP NO	CR18XCF08DPCG
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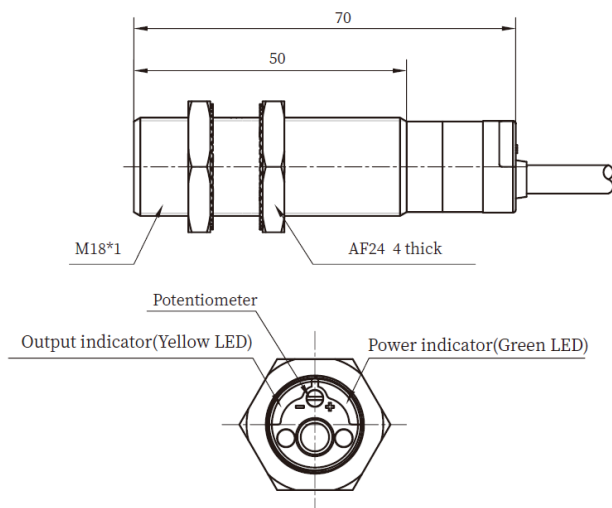
Specifications

Installation type	Flush	Circuit protection	Short circuit protection, Overload protection,
Rated distance Sn	8mm ^①		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) When storing:-30...80°C(No icing, No condensation)
Standard test object	Fe360 24*24*1t(Grounded) ^②	Environment humidity	35...95%RH(No icing, No condensation)
Supply voltage	10...30VDC	Vibration resistant	10...55Hz,Dual amplitude 1mm(2 hours 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	Protection degree	IP67
Switch point offset [%/Sn]	±10%	Housing material	Nickel copper alloy
Temperature drift [%/Sr]	±20%	Connection type	2m PVC Cable
Hysteresis range [%/Sr]	3...20%	Accessories	M18 nuts×2, Slotted screwdriver, Operation manual
Repetitive error [R]	≤6%		

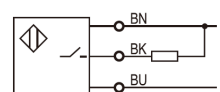
Note: ①the factory default sensing distance is Sn±10%

②unit:mm

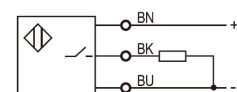
Dimensions



Wiring diagram



NPN NO



PNP NO