CR30X series cylindrical capacitive sensor

Feature description

- Integrated housing matches double highilghted 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	CR30XCN25DNOY	PNP NO	CR30XCN25DPOY
NPN NC	CR30XCN25DNCY	PNP NC	CR30XCN25DPCY
NPN NO+NC	CR30XCN25DNRY	PNP NO+NC	CR30XCN25DPRY

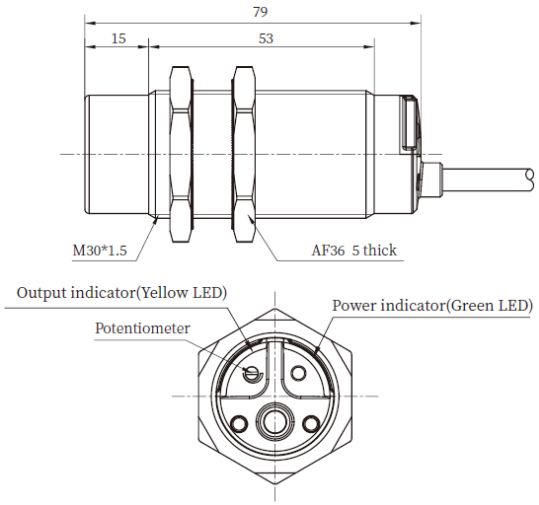
Specifications

Installation type	Non-flush	Indicator	Output indication:Yellow LED;Power indicator:Green LED
Rated distance Sn	25mm①		Overload or short circuit indication:Yellow LED flashes
Ensure distance Sa	≤18mm	Switching frequency	25Hz
Adjust the distance	4...30mm	Ambient temperature	When working:-25...70℃(No icing, No condensation)
Adjustment method	Multi-turn potentiometer		When storing:-30...80℃(No icing, No condensation)
	(Electrical adjustment > 10)	Environment humidity	35...95%RH(No icing, No condensation)
Standard test object	Fe 75*75*1t(Grounded)②	Vibration resistant	10...55Hz,Dual amplitude 1mm(2 hours
Supply voltage	10...30VDC		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 [%/Sr]	≤±10%	Shape specification	M30*1.5*79mm
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,	Accessories	M30 nuts×2, Slotted screwdriver, Operation manual
	Reverse polarity protection		

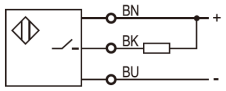
Note: ①the factory default sensing distance is Sn±10%

②unit:mm

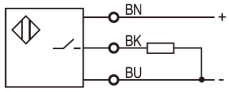
Dimensions



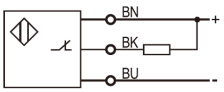
Wiring diagram



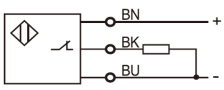
NPN NO



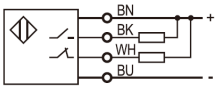
PNP NO



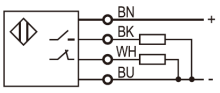
NPN NC



PNP NC



NPN NO+NC



PNP NO+NC

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