

# CR30X series cylindrical capacitive sensor



## Feature description

- Integrated housing matches double highlighted 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-E2	PNP NO	CR30XCN25DPOY-E2
NPN NC	CR30XCN25DNCY-E2	PNP NC	CR30XCN25DPCY-E2
NPN NO+NC	CR30XCN25DNRY-E2	PNP NO+NC	CR30XCN25DPRY-E2

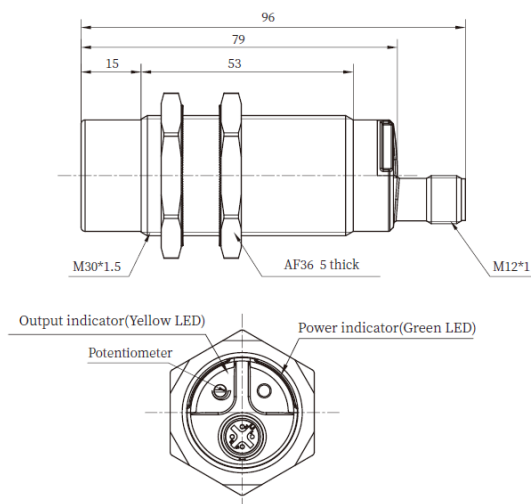
## Specifications

Installation type	Non-flush	Indicator	Output indication:Yellow LED;Power indicator:Green LED
Rated distance $S_n$	25mm <sup>①</sup>		Overload or short circuit indication:Yellow LED flashes
Ensure distance $S_a$	≤18mm	Switching frequency	25Hz
Adjust the distance	4...30mm	Ambient temperature	When working:-25...70°C(No icing, No condensation)
Adjustment method	Multi-turn potentiometer		When storing:-30...80°C(No icing, No condensation)
	(Electrical adjustment > 10)	Environment humidity	35...95%RH(No icing, No condensation)
Standard test object	Fe 75*75*1t(Grounded) <sup>②</sup>	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*96mm
Temperature drift [%/Sr]	≤±20%	Protection degree	IP67
Hysteresis range [%/Sr]	3...20%	Housing material	Nickel copper alloy
Repetitive error [R]	≤5%	Connection type	M12 Connector
Circuit protection	Short circuit protection, Overload protection, Reverse polarity protection	Accessories	M30 nuts×2, Slotted screwdriver, Operation manual

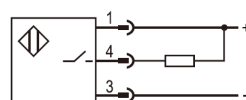
Note: ①the factory default sensing distance is  $S_n \pm 10\%$

②unit:mm

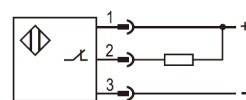
## Dimensions



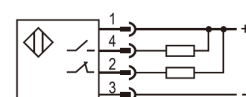
## Wiring diagram



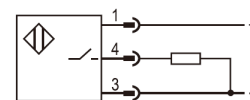
NPN NO



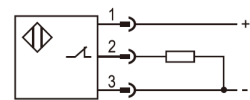
NPN NC



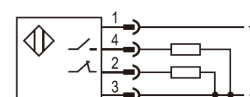
NPN NO+NC



PNP NO



PNP NC



PNP NO+NC