



Eddy Current Displacement Sensor (1mm)

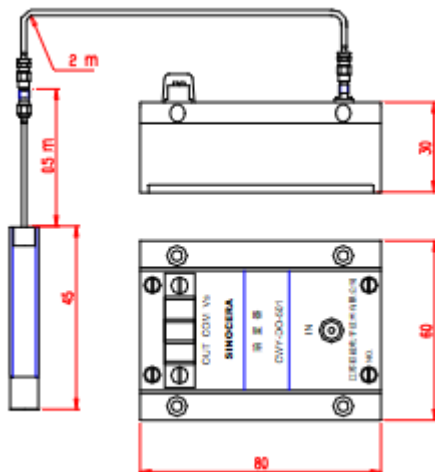
Model: CWY-DO-501

Features

Eddy current sensor is a non-electricity measurement device which can convert mechanical displacement or vibration amplitude to electrical signal. It is made up of probe (sensor), extensional cable and converter (pre-amplifier) and it has advantage of wide frequency response, wide linear measurement range, small size, good anti-interference, easy to use and mounting, long-term steady operation. Especially, non-contact can help dynamic measure rotor, for example, rotation axis. The probe can be used in water and oil.

- Non-contact measurement
- Simple structure
- Wide frequency response
- High Sensitivity, high resolution
- Good anti-interference
- Large measurement linear range

Dimensions



Main Specifications

Measurement Range	0-1mm	
Sensitivity & Error (mV/μm)	Un-interchangeability	8±10% mV/μm
	Interchangeability	8±15% mV/μm
Resolution ratio	1μm	
Linearity & Error	Un-interchangeability	≤2 %
	Interchangeability	≤5 %
Frequency Response	0 ~ 5 kHz	
Sensitivity Temperature Coefficient	0.1 %/°C FS	
Operating Temperature	Probe	-30 ~ 150 °C
	Pre-amplifier	-20 ~ 65 °C
Primary Gap	0.1 ~ 0.5mm	
Probe	Diameter	Φ5
	Mounting Screw	M6
	Probe Length	45mm
	Cable Length	2 M
Test conditions	Power Supply	-24VDC
	Measured Material	45# Steel
	Ambient temperature	20±5°C
	Relative humidity	≤80 %
Accessories	Protect Cap: one; Screw(M6×1):two	