

ZY-RC Series

Rogowski Coil



Description

Integrating FCT Rogowski coils with micro-integrators, the ZY-RC series delivers precise current sensing from 300A to 1500A with 333mV output. This installation-friendly design adapts to diverse industrial monitoring requirements, providing a stable and highly compatible data acquisition foundation for power management systems.

- Simplified installation
- Superior EMI immunity
- Wide frequency bandwidth
- Robust overcurrent capacity
- Safe open-circuit design
- IP65 rated protection

Applications

- Multifunction power meters
- Condition monitoring
- Electric furnaces
- Relay protection device
- Distributed measurement systems
- Ground fault monitoring
- High-voltage current monitoring

Selection Table

ZY-RC Series

Loop Diameter		Rated Current	
Code	Length	Code	Current
100	395mm(φ100mm)	03	300A
		05	500A
150	525mm(φ150mm)	08	800A
		10	1000A
		15	1500A

Specifications

■ Output

Rated Output	333mV rms
Accuracy	<1% typical value, 20% to 120% of rated current (average position 25°C)
Linearity Error	± 0.2% of reading (range 20% to 100%)
Phase Error	≤0.5°
Bandwidth	1Hz to 100kHz (-3dB)

■ Operating Environment

Operating Temperature	-30°C ~ 80°C
Storage Temperature	-40°C ~ 90°C
Coil Diameter	8mm
Lead Length	2 meters
Operating Power	DC 6~12V

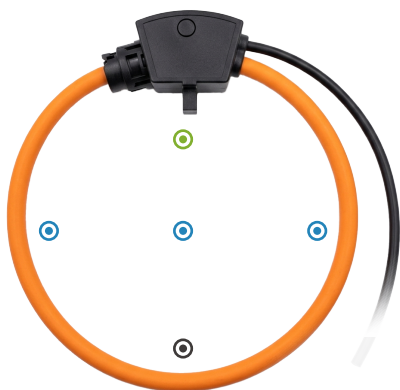
■ Materials

Coil Cable	thermoplastic rubber, UL 94 V-0 flame retardant
Locking Connector	ABS+PC
Coil Color	orange
Shielding	coil 100%, signal cable 100%

■ Safety Standards

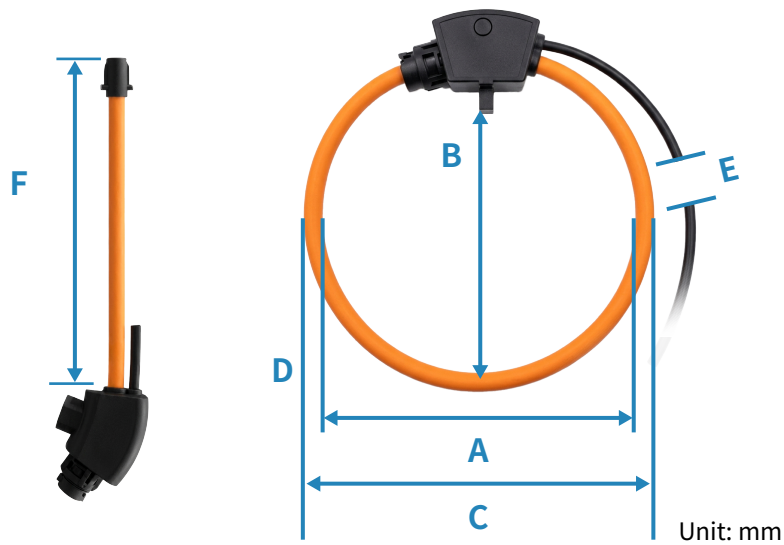
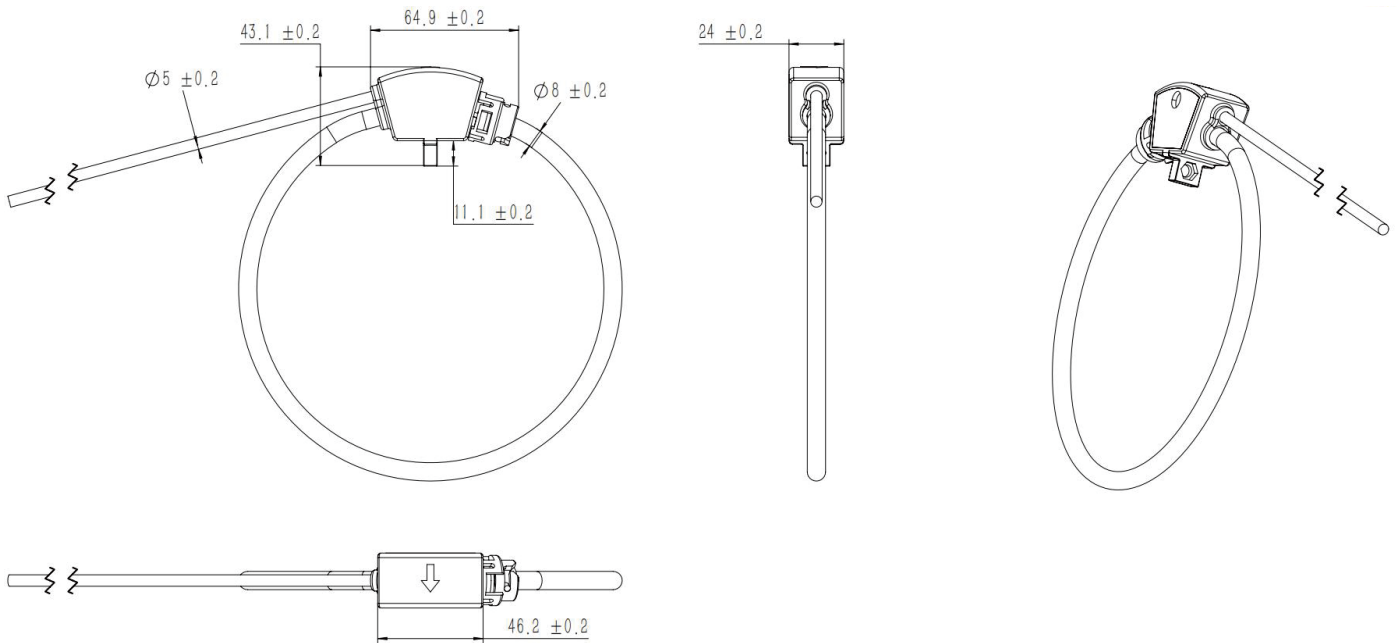
EMC	complies with EMC; EN61326-1 2006
Insulation Voltage	coil 3000V / output wire 1000V
Category	1000V CATIII, 600V CATIV

Positioning Error



Conductor Position	Error Value
● Near Connector	< 0.5%
● Near Internal Coil Edge	< 0.8%
● Opposite of Connector	< 1%

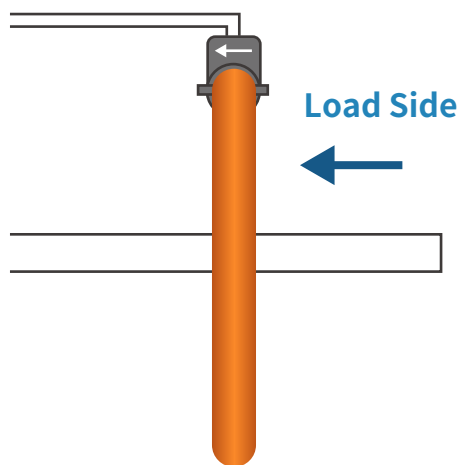
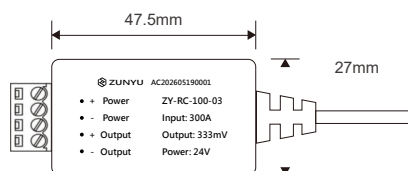
Dimensions



Tolerances:
A,B,C,F: $\pm 5\text{mm}$, D: $\pm 0.2\text{mm}$, E: $\pm 10\text{mm}$

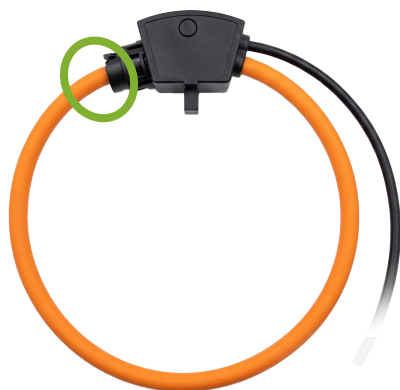
Dimensions (mm)	395	525	665
A. Window size A	135	165	210
B. Window size B	100	150	200
C. Coil outer diameter	151	181	226
D. Coil diameter	8		
E. Signal cable length	2000		
F. Coil length	395	525	665

Dimensions



Instructions for Use

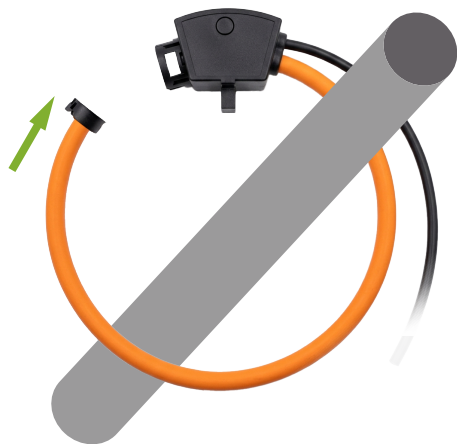
1



2



3



4

