

# RōCoil™

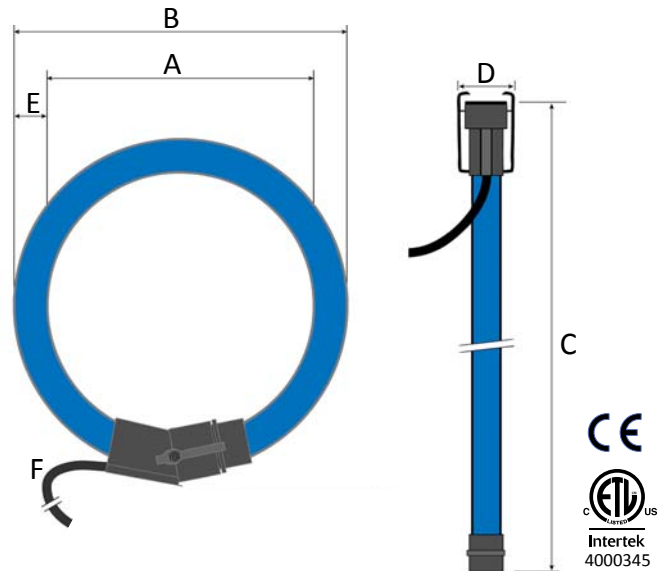
## Flexible CTs



The DENT RōCoil™ Current Transformers have been designed for accurate non-intrusive measurement of AC current, pulsed DC or distorted waveforms. This type of sensor may be used to measure AC current over a wide dynamic range and from 40 Hz to 5 kHz. Note: The RōCoil™ may require use of integrator/ amplifier. See also RōCoil mV™.

### KEY SPECIFICATIONS

Four Lengths	40 cm (16"), 60 cm (24"), 90 cm (36"), 183 cm (72")
Window Size	13 cm (5"), 19 cm (7"), 26 cm (10"), 58 cm (23")
Output Signal ( $di/dt$ )	131 mVAC/1000A @ 60 Hz 110 mVAC/1000A @ 50 Hz
Current Range	50—5000A AC*
Accuracy	< 1%



### ELECTRICAL

All accuracies specified at 20°C (±2°C) with RōCoil™ centered on conductor.

Output Signal	131 mV/1000A @ 60 Hz 110 mV/1000A @ 50 Hz
Wire Colors	White = (+) positive Brown = (-) negative Bare wire = shield
Phasing	Arrow Points Towards Load
Phase Shift	< 1° at 50/60 Hz
Frequency Range	40 Hz to 5 kHz
Useful Current Range	50-5000A AC*
Linearity	± 0.2%
Conductor Position Sensitivity	± 2% maximum
Influence of External Field	± 1.5% maximum
Temperature Sensitivity	0.07% per °C

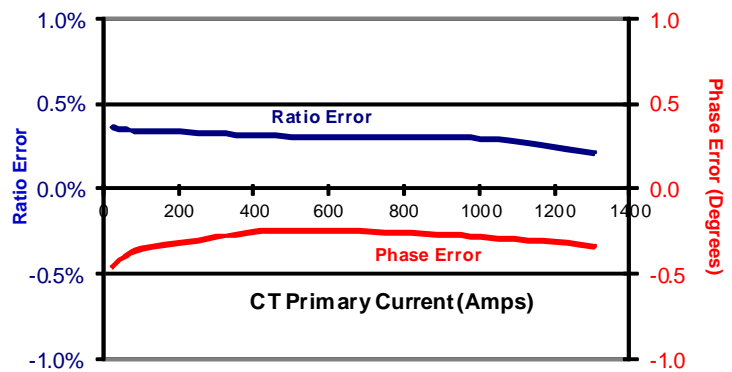
### MECHANICAL

Coil Materials	Blue thermoplastic rubber, flame retardant UL 94 V-0 rated
Coupling Materials	Polypropylene UL 94 V-0 rated
Shielding	85% transducer, 100% output lead
Working Temp	-20 °C to +80 °C (-4° to +176 °F)

### SAFETY

Working Voltage	1000 Vrms maximum
Dielectric Strength	7400 VAC around coil 1000 VAC rated leads
Certifications	  Conforms to UL STD 61010-1 Certified to CAN/CSA STD C22.2 No. 61010

DIMENSIONS		R16	R24	R36	R72
		40 cm (16")	60 cm (24")	90 cm (36")	183cm (72")
<b>A</b>	Window Size	13 cm (5")	19 cm (7")	26 cm (10")	56 cm (22")
<b>B</b>	Transformer Coil O.D.	15 cm (6")	21 cm (8")	29 cm (11")	58 cm (23")
<b>C</b>	Transformer Length	40 cm (16")	60 cm (24")	90 cm (36")	180 cm (72")
<b>D</b>	Locking Connector O.D.	3.6 cm (1.4")			
<b>E</b>	Transformer Coil Diameter	1.5 cm (0.6")			
<b>F</b>	Wire Lead Total Length	2 m (80")			



### RōCoil™ PART NUMBERS

40 cm (16") RōCoil™	CT-R16-1310
60 cm (24") RōCoil™	CT-R24-1310
90 cm (36") RōCoil™	CT-R36-1310
183 cm (72") RōCoil™	CT-R72-1310

### CONTACT US

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\*Depending on meter compatibility. RōCoil CTs ETL Rated to 6000A AC.  
ELITEpro SP and PowerScout™ 3 rated for 50-5000A. PowerScout™ 18 rated for 50-3500A.