

MAGNELAB

# Split-Core AC Current Sensor SCT-0400

0.40" Opening with Ratings Up to 75 Amps, 1.0%

Magnelab's SCT-0400 Series Split-Core Current Sensors "sense" AC current up to 75 Amps passing through the center conductor. Split-core transformers are ideal for installation on existing electrical wiring by snapping around the conductor. The SCT series have a self-locking mechanism guaranteed for 500 opening-closing cycles. Custom outputs and other parameters are available at customer request.

## SPECIFICATIONS

Rated Primary Current	Up to 75 Amp
Rated Output	0.333 V (AC) at rated current
Accuracy	±1.0%
Phase Displacement	< 2° (Valid at 20 A or higher)
Temperatures	UL Rated Ambient: 55°C Operating: -20°C to 75°C Storage: -40°C to 90°C

UL Relative Humidity Rating 85%

Leads Length: 8 ft (2.4 m) 22 AWG twisted pair  
Rating: 600 V (UL 1015, UL 1213)

UL Max Voltage 600 V on Primary Conductor

Rated Current Frequency 50-1,000 Hz

Minimum impedance 75 kOhms

Certifications UL Standard 61010-1, EN 60044-1

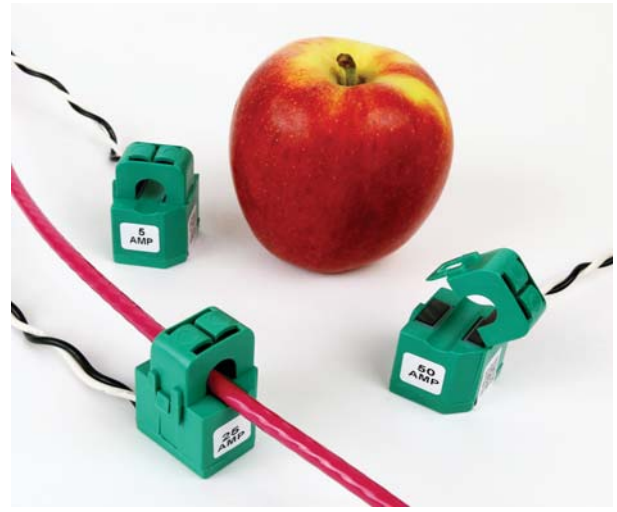
Weight Approx. 0.18 lbs (0.08 kg) with 8' leads



SCHEMATIC

PART NUMBER	RATING
SCT-0400-000	NO BURDEN RESISTOR*
SCT-0400-001	1 AMP
SCT-0400-005	5 AMP
SCT-0400-010	10 AMP
SCT-0400-015	15 AMP
SCT-0400-020	20 AMP
SCT-0400-025	25 AMP
SCT-0400-030	30 AMP
SCT-0400-040	40 AMP
SCT-0400-050	50 AMP
SCT-0400-060	60 AMP
SCT-0400-075	75 AMP

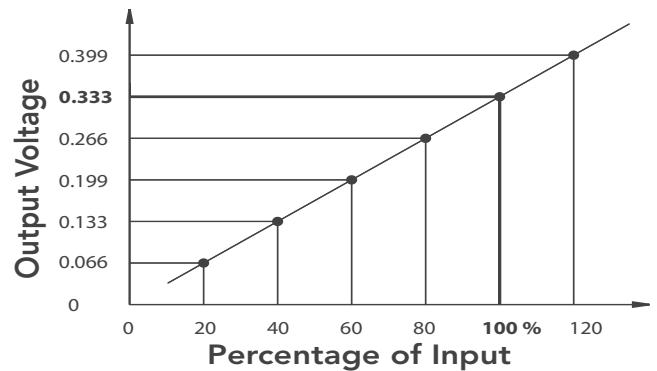
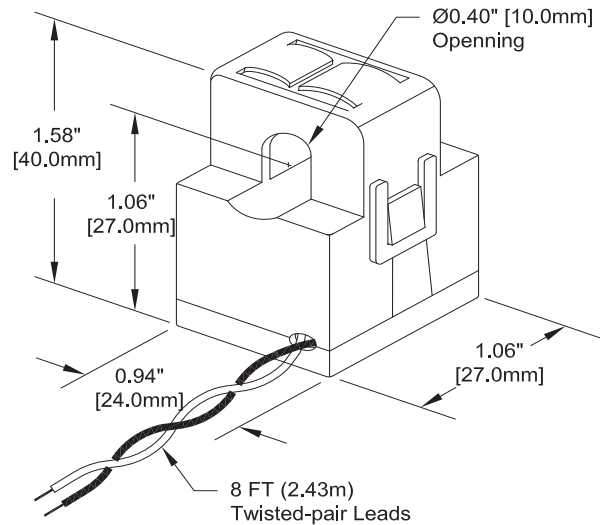
\* Zener diode Limits the Output



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## APPLICATIONS

- Submetering
- Smart Home Energy Management System
- Power Generation Monitoring
- Industrial Pump Monitoring
- Solar Consumption Monitoring
- EV Charging Stations
- Substation LV/MV/HV
- Lifecycle Management of Equipment



cFUs CE RoHS2 ISO9001

\*\*Magnelab reserves the right to implement modifications without prior notice