

Current Switches

Solid and Split Core Current Transmitters



Depending on model selected the current is converted into a linear and proportional output signal of 0-5 Vdc, 0-10 Vdc or 4-20 mA, which can be monitored by a building management controller. These current sensors should be used in load trending (current monitoring) type applications. The split core transmitters are ideal for retrofit or existing installations, since it is not necessary to power down the unit and disconnect any wires during the installation process. Solid core transmitters are extremely easy to install, they are an excellent choice for new installations.

- Solid or split core loop-powered current transmitters for 4-20 mA models
- Solid or split core 0-5 or 0-10 Vdc models
- Fast response time
- Integral DIN rail mounting flange
- Easy wiring, polarity sensitive output
- Accepts up to a 350 MCM (17.3 mm) cable
- Operates up to 250 continuous amps
- True RMS versions are available
- RoHS and WEEE Compliant
- Limited 5 Year Warranty

Application: Ideal for retrofit or existing installations requiring load trending (current monitoring)

Dimensions, Approximate: 2 45/64 in. high x 3 21/64 in. wide x 1 5/64 in. deep (69 mm high x 85 mm wide x 25 mm deep)

Din Rail Size: 1-3/8 in. (35 mm)

Enclosure Rating/Color: UL94-5V/Burgundy

Response Time: <200 mS

Maximum Load Resistance: 650 Ohms @ 24 Vdc (Vs-10)/0.02-40.2

Isolation Voltage: 2200 Vac

Supply Current: 36 mA max

Operating Temperature Range: 5 F to 104 F (-15 C to 40 C)

Operating Humidity Range (% RH): 0 to 95% RH, non-condensing

Weight: 0.24 lb (0.1 kg)

Approvals

CE: Pending

Underwriters Laboratories, Inc: Approved

Environmental Compliance: RoHS-Directive 2002/95/EC, WEEE-Directive 2002/96/EC

Product Number	Description	Core Type	Output Switch Rating	Current Range	Type	Response Time	Supply Voltage	Frequency
CTP-20-050-VFD-001	Loop Powered Current Sensor	Split	4-20 mA Average True RMS	0-50 Amps; 0-20 Amps; 0-10 Amps	Adjustable	<200 mS	12 to 30 Vdc	30 Hz to 1 kHz
CTP-20-200-AVG-001	Loop Powered Current Sensor	Split	4-20 mA Average	0-150 Amps; 0-200 Amps; 0-100 Amps	Adjustable	<75 mS	12 to 30 Vdc	30 Hz to 1 kHz
CTS-05-050-VDC-001	Current Sensors	Solid	0 to 5 Vdc	0-50 Amps; 0-20 Amps; 0-10 Amps	Adjustable	<100 mS	Induced from monitored conductor	50 Hz to 600 Hz
CTS-10-250-VDC-001	Current Sensors	Solid	0 to 10 Vdc	0-250 Amps; 0-200 Amps; 0-100 Amps	Adjustable	<100 mS	Induced from monitored conductor	50 Hz to 600 Hz
CTS-20-250-AVG-001	Loop Powered Current Sensor	Solid	4-20 mA Average	0-250 Amps; 0-200 Amps; 0-100 Amps	Adjustable	<75 mS	12 to 30 Vdc	30 Hz to 1 kHz
CTS-20-250-VFD-001	Loop Powered Current Sensor	Solid	4-20 mA Average True RMS	0-250 Amps; 0-200 Amps; 0-100 Amps	Adjustable	<200 mS	12 to 30 Vdc	30 Hz to 1 kHz