

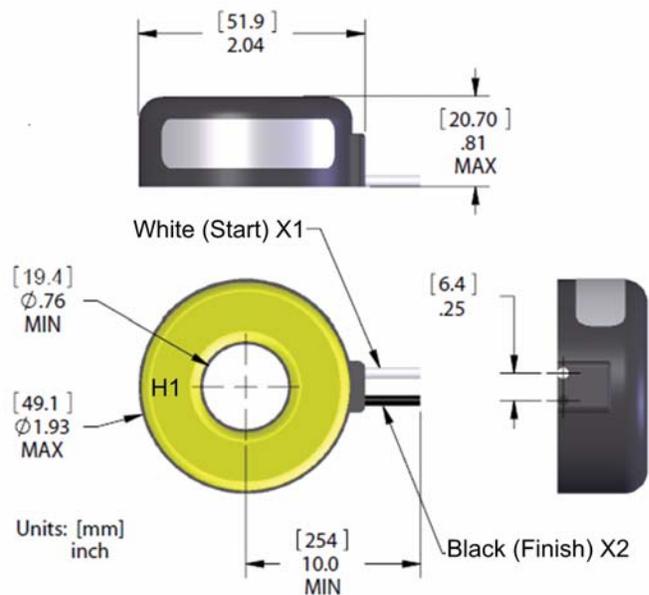
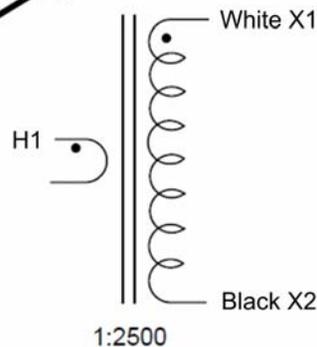
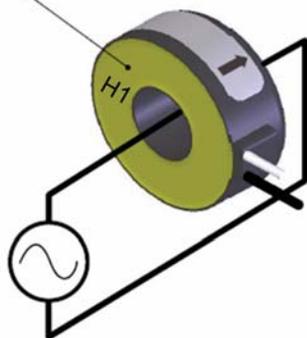
PowerLogic™ Series METSECT80XXX Current Transformers (For use with PowerLogic EM4880 meters)

Introduction

PowerLogic METSECT80XXX current transformers connect to PowerLogic EM4880 meters through the 50-conductor CT cable provided with the meter. The CT wire pairs and cable color scheme for each meter point are shown in the table on the inside of the meter cover. Each CT has an X1 (positive) and X2 (neutral) wire pair, and uses butt-splice connectors to attach the CT to a specific meter wire pair. The direction of the energy flow is indicated on the CT. The technical specifications and a diagram of the CT are shown below.

Specification	Description
Insulation level	600V, 10kV BIL full wave
Frequency	50 to 400 Hz
Input current	5 to 200 A
Conductor	20 AWG (white = X1, black = X2)
Current ratio	2500/1
Accuracy class	<0.1% conforming to IEC 62053-22 and ANSI C12.20
Burden	20 ohms
Secondary wiring resistance +/- 6%	33 ohms
Maximum current	460 A
Approvals	UL recognized

Labelled / Potted side is considered the start



Installation instructions

Do not apply power until you have made these connections and followed all of the instructions below:

- Connect all CTs to the appropriate circuits
- Connect the CTs to the cables
- Connect the cables to the PowerLogic meter

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Turn off all power supplying this equipment before working on or inside the equipment.
- Always use a properly rated voltage sensing device to confirm the power is off.
- NEVER open circuit a CT; use the shorting block to short circuit the leads of the CT before removing the connection from the meter.
- Do not crimp the insulation when making the wire connections.

Failure to follow these instructions will result in death or serious injury.

1. Connect the 50-pin connector to the meter connector located at the bottom side of the unit, and secure it in place with the retaining clips.
2. Feed the free end of the cable through the bottom left of the meter enclosure. This cable is made up of twisted-pair wires for connecting the individual CTs to the metered points. The color codes for the X1 (positive) and X2 (neutral) connections for each CT are listed in the table on the inside of the meter cover.
NOTE: The direction of the energy flow is indicated on the CT.
3. Turn off the power feed to the panel where the CTs are being installed. Always use a properly rated voltage sensing device to confirm power is off.
4. Feed the CT cable into the panel through an appropriate punch-out with an approved strain relief.
5. Strip the plastic sheaths on the cable to an appropriate length to expose the wire pairs. Cut and strip the CT leads and wire pair leads to an appropriate length. Crimp the CT leads to the wire pairs for each meter point.
6. Connect the X1 lead of the CT to the X1 lead of the cable, then connect the X2 lead of the CT to the X2 lead of the cable.
7. Remove the feed wire from the circuit breaker, place the CT over the wire, reconnect to the circuit breaker, and tighten per the manufacturer's torque value. Ensure that the arrow on the CT label is pointing in the direction of the energy flow (toward the load).
8. Repeat steps 5 to 7 for the remaining CTs.

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Contact your local Schneider Electric sales representative for assistance or go to www.schneider-electric.us

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Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

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