

Specifications

Current Measurement	To 0-1600A 300V CAT III
Output Signal	0-5Amps,
Accuracy	1% @ 60Hz, 10-100% of range
Linearity	0.5%, 10-100% of range
Frequency Range	50/60 Hz
Insulation Voltage Class	0.6kV BIL 10KV
Case	UL 94V-0 Flammability rated thermoplastic
Thermal rating	3.5W @ 30° C 0-95% RH non-condensing Pollution degree 2 Altitude to 2000 meters Overvoltage category II
Approvals	Designed to ANSI C57.13, UL 1244 CE Compliance soon

Model Number Key

CT - 1000 - 5 - LS

CASE STYLE
LS- Large Split Core

OUTPUT:
5 - 0-5 Amps

RANGE
0800 - 800 : 5A ratio
1000 - 1000 : 5A ratio
1200 - 1200 : 5 A ratio
1600 - 1600 : 5 A ratio

SENSOR TYPE:
CT - AC current transformer



INSTRUCTIONS



CT -LS SERIES AC Current Transformers Large Split Core, 0-5A output

Quick “How To” Guide

1. Pop bottom section of sensing ring off by carefully prying clips away and pulling the section downward.
2. Place conductor inside ring and replace bottom section until the clips snap firmly closed.
3. Connect output wiring.
 - A. Use up to 14 AWG 75/90°C copper wires.
 - B. Make sure output load does not exceed product specifications.
 - C. Observe polarity: H1 must face source, terminal X1 must connect to the “positive” on the load.
 - D. Terminating CT secondary on a block to allow shorting the secondary is advised.
4. Energize the monitored circuit. .
5. Verify that the display or controller is reading the output correctly

Caution! Risk of electric shock or personal injury



Safe operation can only be guaranteed if the transducer is used for the purpose for which it was designed and within the limits of the technical specifications. When this symbol is used, it means you should consult all documentation to understand the nature of potential hazards and the action required to avoid them.

Caution! Risk of hazardous voltage



When operating the transducer, certain parts may carry hazardous live voltage (e.g. primary conductor, power supply). The transducer should not be put into service if the installation is not complete.

Know Your Power



Other NK Technologies Products Include:

AC & DC Current Transducers
AC & DC Current Operated Switches
1 ϕ & 3 ϕ Power Transducers
Current & Potential Transformers (CTs&PTs)



NK Technologies

3511 Charter Park Drive, San Jose, CA 95136
Phone: 800-959-4014 or 408-871-7510
Fax: 408-871-7515
sales@nktechnologies.com, www.nktechnologies.com

Description

CT-LS Series current transformers produce an output of current in proportion to the monitored circuit current. The wave shape of the output is nearly identical to the monitored circuit wave shape,

Installation

Place wire or bus bar to be monitored through the sensing aperture.

CT-LS Series transformers work in the same environment as motors, contactors, heaters, pull-boxes, and other electrical enclosures. They can be mounted in any position or hung directly on wires with a wire tie. Just leave at least one inch distance between sensor and other magnetic devices.

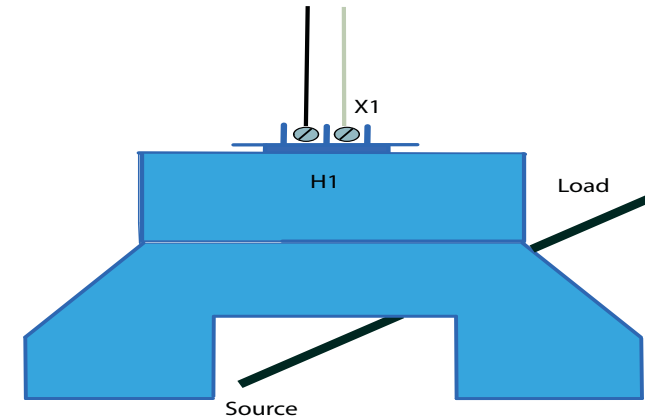
Ratio	Burden
800:5	10VA
1000:5	10VA
1200:5	10VA
1600:5	12.5VA

Output Wiring

Connect control or monitoring wires to the sensor. Use up to 14 AWG 75/90°C copper wire and tighten terminals to 3.5 inch-pounds torque. Be sure the output load total burden does not exceed unit burden rating.

Connection Notes:

- Captive screw terminals.
- 14-22 AWG solid or stranded.
- Observe Polarity
- See ordering information and label for monitored circuit range



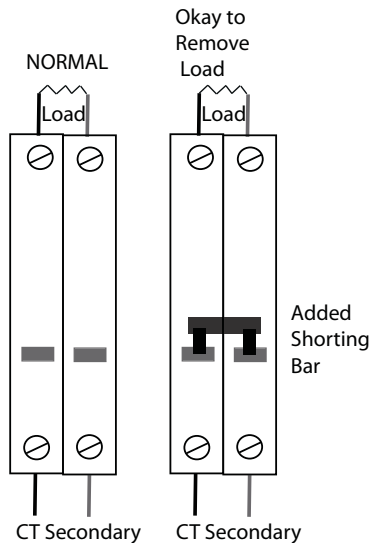
Model Range Select

CT-LS Series transformers feature factory calibrated ranges. Select a model with a range higher than the normal running current of the load.

1. Determine the normal operating amperage of your monitored circuit using load specifications or a test ammeter.

2. Select the model with a range that is equal to or slightly higher than the normal operating amperage.

Use of a shorting block recommended



Trouble Shooting

1. Transformer has no output

- A. The load is not energized, is not AC or there are more than one phase passing through the aperture. *Check that there is AC current being used and that all conductors through the aperture are connected to the same phase.*
- B. Polarity is reversed. *Check and correct output wiring polarity.*

2. Output Signal Too Low

- A. The range may be too high for current being monitored. *Exercise care when selecting the model range. Use a model with a ratio near the actual load being monitored.*

CAUTION!

A current transformer (CT) should never be energized (AC current through the sensing window) with no load connected to the output terminals. Best practice is to terminate the current transformer secondary on a terminal block with the ability to short between two points before extending the leads to the load. If it is ever necessary to remove the load from the CT while it is or could become energized, placing a shorting bar between the secondary leads. This will allow the load to be removed safely. See drawing on the left.