



CURRENT SENSOR

Model **CTF - 500TTSX5**

Specifications

INPUT

Current Range:	0 - \pm 500 Adc (A pk)
Over-range:	750 Adc (A pk)
Frequency range:	DC - 1 KHz

OUTPUT

Type:	5 V
Loading:	$\geq 2\text{ K } \Omega$
Sensitivity:	10 mV per Ampere
Scaling:	0 - \pm 5 V = 0 - \pm 500 A input

Accuracy	$\pm 0.5\%$ F.S.
Linearity	$\pm 0.2\%$ F.S.
Zero Offset	$\pm 20\text{ mV}$
Zero Stability: (with earth's field = 0.5 gauss)	$\pm 5\text{ mV}$

Temperature Effect: (0 - 40° C)	$\pm 0.5\%$ F.S.
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Excitation

Voltage: (nominal $\pm 15\text{ Vdc}$)	$\pm 14\text{ Vdc}$ to $\pm 18\text{ Vdc}$
Current: Quiescent	$\leq \pm 25\text{ mA}$
Maximum (@ 500A)	$\leq \pm 130\text{ mA}$

Installation

Turn off circuit power - no current is to be flowing through the conductor on which the sensor will be installed.

Loosen one sensor wire by removing the screw in the side of the case. Open both latches and place the sensor around the current conductor.

Close the latches and reattach the sensor wire to the top half of the case.

Apply $\pm 15\text{ Vdc}$ excitation voltage to the sensor.

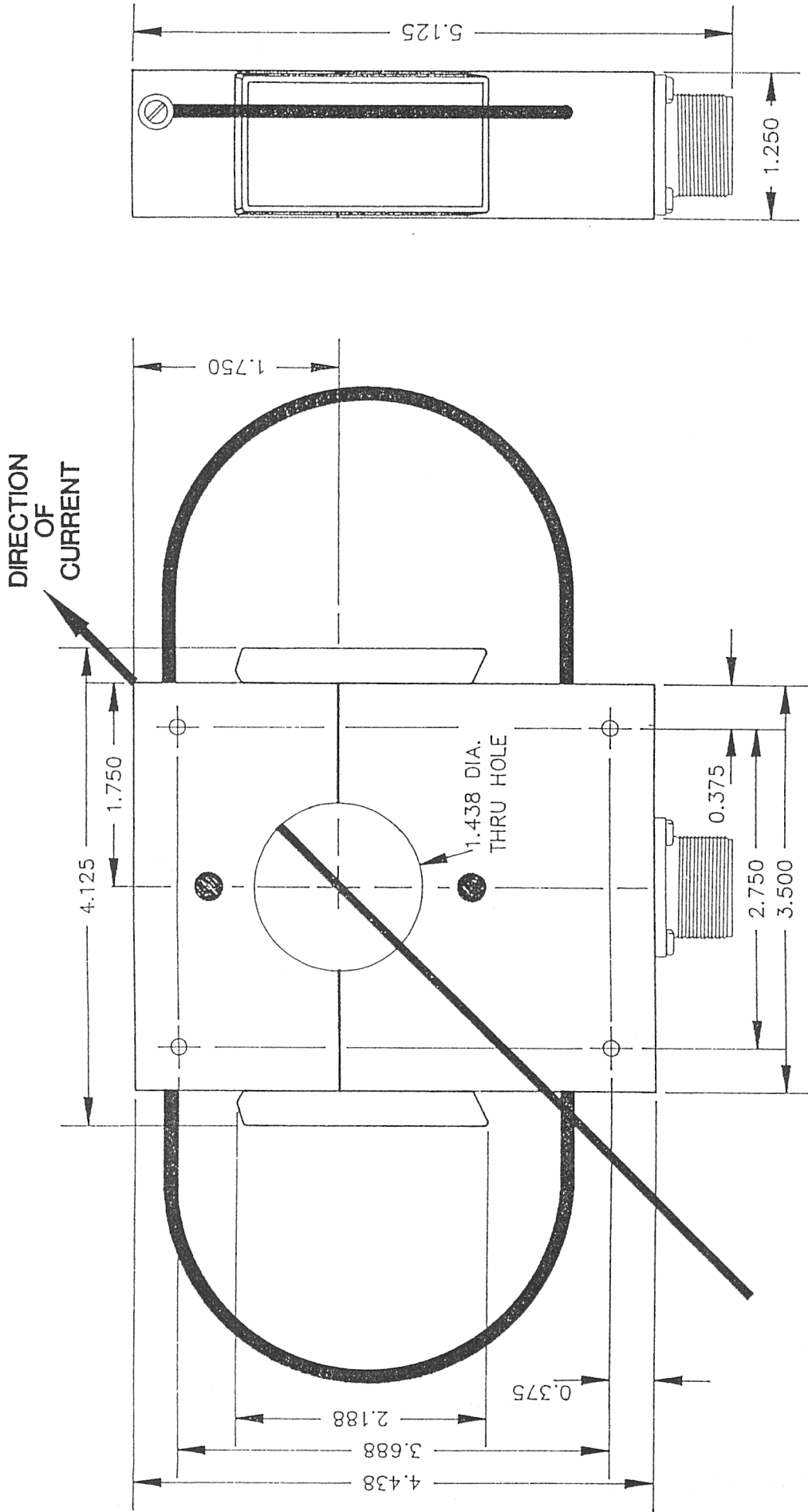
Turn on circuit power.

For Best Results

1. Do not pass current through the sensor window until after excitation voltage has been applied.
2. Apply the plus (+) and minus (-) excitation voltages simultaneously.
3. A large zero offset may occur if steps 1 and 2 are not observed. To remove this offset, pass a 0A - 100A - 0A AC current through the sensor window with excitation voltage turned off.
4. Center the current conductor in the sensor window.
5. Keep the mating faces of the sensor clean.

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 BLACK(-15VDC)
 WHITE(COMMON)
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 SHIELD

INTERFACE CABLE

