



AC CURRENT TRANSDUCER

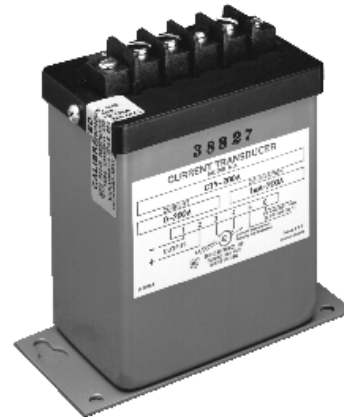
MODEL CT5

FEATURES

- Accurate, reliable current measurement over a wide frequency range.
- Input/output isolation.

APPLICATIONS

- Designed for use in OEM applications which require inexpensive current measurement.
- Designed to withstand motor start-up transients.



INPUT AC AMPS	SENSOR SIZE	STANDARD OUTPUTS MODEL CT5				
		0 - 1mA*	4 - 20mA	4 - 20mA**	0 - 10Vdc*	0 - 5Vdc*
0 - 1	int.	001A	001E	001E2	001C	001CX5
0 - 5	int.	005A	005E	005E2	005C	005CX5
0 - 10	int.	010A	010E	010E2	010C	010CX5
0 - 20	int.	020A	020E	020E2	020C	020CX5
0 - 25†	W	025A	025E	025E2	025C	025CX5
0 - 50	W	050A	050E	050E2	050C	050CX5
0 - 100	W	100A	100E	100E2	100C	100CX5
0 - 200	W	200A	200E	200E2	200C	200CX5
0 - 300	W	300A	300E	300E2	300C	300CX5
0 - 400	X	400A	400E	400E2	400C	400CX5
0 - 500	X	500A	500E	500E2	500C	500CX5
0 - 600	X	600A	600E	600E2	600C	600CX5
0 - 800	X	800A	800E	800E2	800C	800CX5
0 - 1000	Y	1000A	1000E	1000E2	1000C	1000CX5
0 - 1500	Y	1500A	1500E	1500E2	1500C	1500CX5

*Models are self-powered from measured line.

**4-20mA loop-powered models, (15 - 40 Vdc).

† Indicates two turns through external sensor.

Transducer output is derived from the average absolute value of the input and calibrated in terms of the RMS value of the sine wave input.

ORDERING INFORMATION

Example: 20 amps ac input with 4-20mA output.
CT5-020E

SPECIFICATIONS

INPUT		RESPONSE	400 milliseconds
CURRENT	See tables	OUTPUT LOADING (OHMS)	0-1mA: 0-10K
FREQUENCY RANGE	50 to 400Hz		0-5V, 0-10V: ≥ 10M
BURDEN	1.0VA FS		4-20mA: ("E") 0-1500, ("E2") 0-1400
CURRENT OVERLOAD	2 x FS rating (continuous), except 20A model	FIELD ADJUSTABLE CAL	± 5%
	20A model: 1.25 x FS rating	ACCURACY	Internal Sensor: 0.25% FS @ 60 Hz
	50 x FS (1 sec transient)		External Sensor: 0.5% FS @ 60Hz
DIELECTRIC TEST (Input/Output/Case)	1500Vac		Additional 0.25% FS typical over frequency range.
OUTPUT		TEMPERATURE EFFECT (-20°C to 60°C)	±1.0% Rdg
OUTPUT RIPPLE	Less than 1.0% FS	INSTRUMENT POWER (Models with E Suffix only)	
		Standard	85-135Vac, 50-400Hz, 3.5VA
		-22 option	185-270Vac, 50-400Hz, 3.5VA

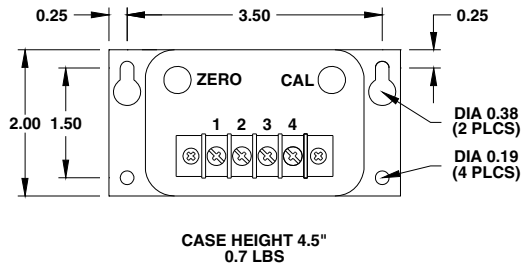
OHIO SEMITRONICS, INC.

4242 REYNOLDS DRIVE HILLIARD, OHIO 43026-1264
Phone: (614) 777-1005 FAX: (614) 777-4511
TO PLACE AN ORDER: 1-800-537-6732

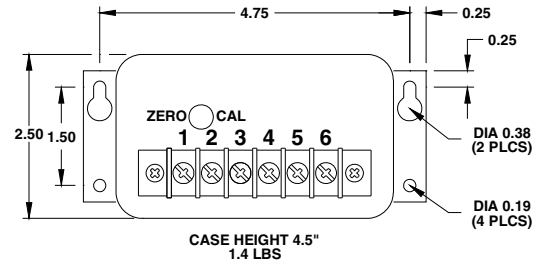


CONNECTIONS AND CASE DIMENSIONS

MODELS WITH A, C, CX5, or E2 SUFFIX

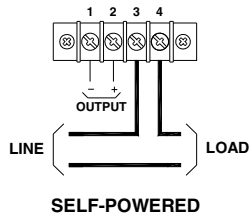


MODELS WITH E SUFFIX

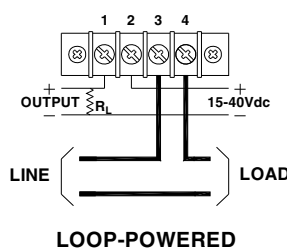


CONNECTION DIAGRAMS

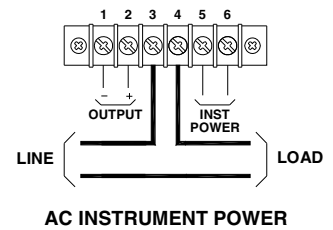
MODELS WITH A, C, or CX5 SUFFIX INTERNAL SENSOR



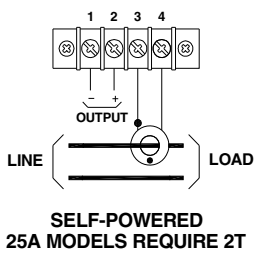
MODELS WITH E2 SUFFIX INTERNAL SENSOR



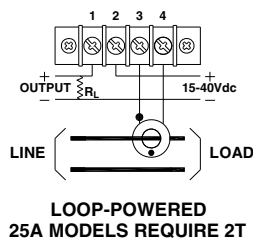
MODELS WITH E SUFFIX INTERNAL SENSOR



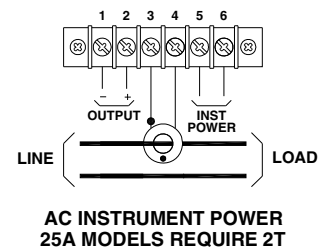
MODELS WITH A, C, or CX5 SUFFIX EXTERNAL SENSOR



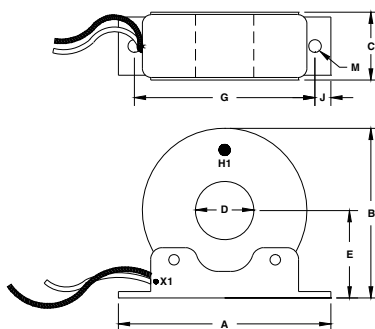
MODELS WITH E2 SUFFIX EXTERNAL SENSOR



MODELS WITH E SUFFIX EXTERNAL SENSOR



EXTERNAL SENSOR DIMENSIONS



DIMENS.	SENSOR SIZE		
	W	X	Y
A	4.55	6.53	6.53
B	3.70	4.70	4.70
C	1.25	1.25	1.25
D	1.25	2.50	3.00
E	1.85	2.44	2.44
G	3.88	5.75	5.75
J	0.34	0.39	0.39
M	0.31 X 0.44	0.28	0.28
APPROX WEIGHT IN LBS.	1.40	1.60	1.10

LEAD LENGTH 24"

SENSOR DIMENSIONS

OHIO SEMITRONICS, INC.

4242 REYNOLDS DRIVE HILLIARD, OHIO 43026-1264
Phone: (614) 777-1005 FAX: (614) 777-4511
TO PLACE AN ORDER: 1-800-537-6732