



AC CURRENT TRANSDUCER

MODEL 2CT5

THREE CURRENT TRANSDUCERS IN ONE ENCLOSURE

FEATURES

- Accurate, reliable current measurement
- Two separate inputs, two outputs.
- Input/output isolation.

APPLICATIONS

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

INPUT AC CURRENT	SENSOR SIZE	OPTIONAL OUTPUTS MODEL 2CT5-				
		0-1mA*	4-20mA	4-20mA**	0-10Vdc*	0-5Vdc*
0 to 1	INTEGRAL	001A	001E	001E2	ORDER 0-1mA UNIT WITH TWO (2) OSI CURRENT TO VOLTAGE CONVERTERS MODEL LRB-10000	ORDER 0-1mA UNIT WITH TWO (2) OSI CURRENT TO VOLTAGE CONVERTERS MODEL LRB-5000
0 to 5	INTEGRAL	005A	005E	005E2		
0 to 10	INTEGRAL	010A	010E	010E2		
0 to 20	INTEGRAL	020A	020E	020E2		
0 to 25†	W	025A	025E	025E2		
0 to 50	W	050A	050E	050E2		
0 to 100	W	100A	100E	100E2		
0 to 200	W	200A	200E	200E2		
0 to 300	X	300A	300E	300E2		
0 to 400	X	400A	400E	400E2		
0 to 500	X	500A	500E	500E2		
0 to 600	X	600A	600E	600E2		
0 to 800	Y	800A	800E	800E2		
0 to 1000	Y	1000A	1000E	1000E2		
0 to 1500		1500A	1500E	1500E2		

† 25 Amp models require two turns of measured conductor through transformer window.

*0-1mA models are self-powered from measured line.

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

Standard 4-20mA models require 85-135VAC instrument power.

Optional 220VAC instrument power-Add suffix "-22".

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: Two 200 Amp AC inputs
with two 4-20mA outputs.
2CT5-200E

MODEL 2CT5 SPECIFICATIONS

INPUT

CURRENT: See tables
 FREQUENCY RANGE: 50 to 400 Hz.
 BURDEN: 1.0VA F.S.
 CURRENT OVERLOAD:
 2 times full scale rating (continuous), except 20A model.
 20A model: 1.25 times full scale rating.
 50 times full scale (1 Sec. transient).

DIELECTRIC TEST (Input/Output/Case): 1500V
 INSTRUMENT POWER: 85-135VAC, 50-400Hz, 10VA

OUTPUT

OUTPUT RIPPLE: Less than 1.0% F.S.

RESPONSE: 400 milliSeconds

OUTPUT LOADING (OHMS):
 0-1mA: 0-10K
 4-20mA ("E"): 0-500
 4-20mA ("E2"): 0-1400
 FIELD ADJUSTABLE CAL.: ± 5%

ACCURACY (Includes effects of linearity)

Integral sensor: ± 0.25% F.S. (at 60Hz.)
 0.5% F.S. over frequency range (typ.)
 External sensor: ± 0.5% F.S.
 TEMPERATURE EFFECT (-20°C to 60°C): ± 1.0% RDG

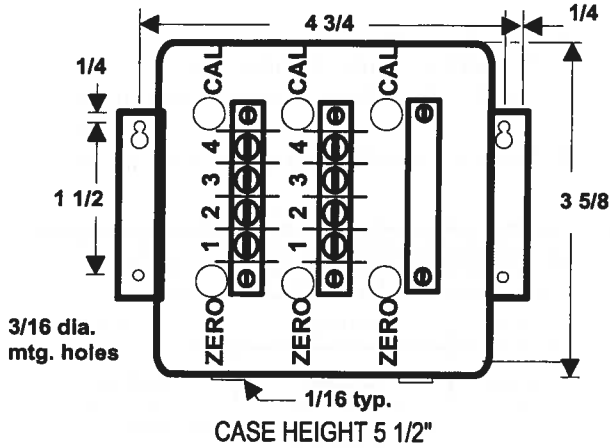
OHIO SEMITRONICS, INC.

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

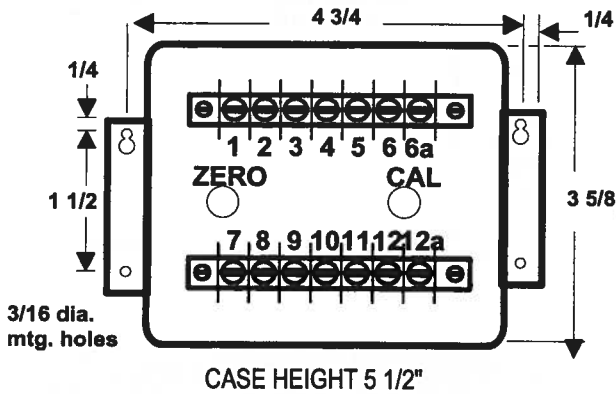
AC CURRENT TRANSDUCER

MODEL 2CT5

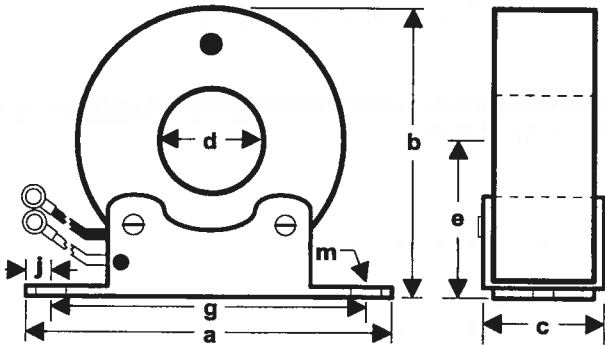
CASE DIMENSION "A" OR "E2" OUTPUTS



CASE DIMENSION "E" OUTPUT



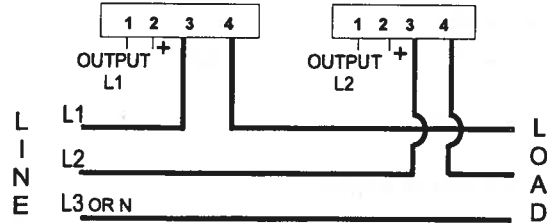
SENSOR DIMENSIONS



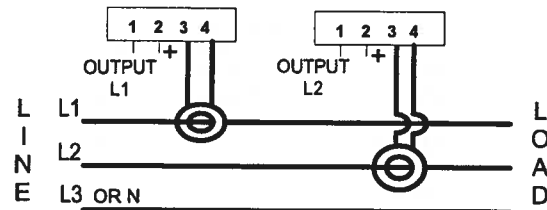
SENS. SIZE	SENSOR DIMENSIONS								WT. LBS.
	a	b	c	d	e	g	j	m	
W	4.55	3.70	1.25	1.25	1.87	3.88	0.34	0.31 X 0.44	1.43
X	6.53	4.70	1.25	2.50	2.38	5.75	0.39	0.28	1.61
Y	6.53	4.70	1.25	3.00	2.38	5.75	0.39	0.28	1.10

LEAD LENGTH 24 INCHES

INTEGRAL CURRENT SENSOR "A" OR "E2" OUTPUTS

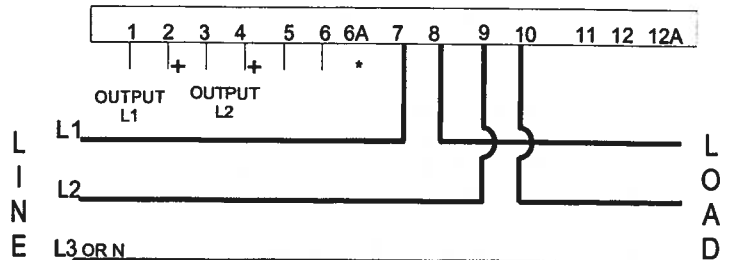


EXTERNAL CURRENT SENSOR "A" OR "E2" OUTPUTS



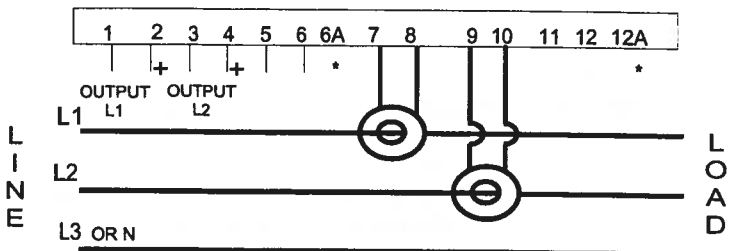
NOTE: 25A Model requires two turns of conductor through transformer window.

INTEGRAL CURRENT SENSOR "E" OUTPUTS



* AC Instrument power on terminals 6A, 12A.

EXTERNAL CURRENT SENSOR "E" OUTPUTS



* AC Instrument power on terminals 6A, 12A.

NOTE: 25A Model requires two turns of conductor through transformer window.