

# OSI SINGLE-PHASE AC CURRENT TRANSDUCER MODEL DCT-

## DIN-RAIL-MOUNTED AC CURRENT TRANSDUCER

### FEATURES

- Accurate, reliable measurement.
- Both 1 and 5A ranges are available.
- Compact DIN Rail packaging.



### APPLICATIONS

- Designed for use in OEM applications which require inexpensive current measurement.
- Designed for installations that require both CE and CSA approvals.
- Perfect for applications that require DIN-Rail mounting.

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

### MODEL SELECTION

INPUT AC AMPS	STANDARD OUTPUTS MODEL DCT-				
	0-1mAdc*	4-20mA	4-20mA**	0-10Vdc	0-5Vdc
0 - 1	001A	001E	001E2	001C	001CX5
0 - 5	005A	005E	005E2	005C	005CX5

\*A models are self-powered from measured line.

\*\*4-20mA loop-powered models require 12-32Vdc.

### ORDERING INFORMATION

Example: 5Aac Input with 4-20mA Output.

**DCT - 005E**

Standard E, C & CX5 models require 100-135Vac instr. power.

For optional 220Vac instrument power - Add suffix “- 22”.

### SPECIFICATIONS

#### INPUT

Current ..... 0-1A or 0-5A  
 Frequency Range ..... 50/60Hz  
 Burden ..... <1.5VA F.S.  
 Current Overload  
     Continuous ..... 120% of F.S. Input  
     1s, Transient ..... 20 X F.S. Rating

#### DIELECTRIC TEST

Input to Instrument Power/Output/Case ..... 3700Vac  
 Instrument Power to Output/Case ..... 3700Vac  
 Output to Case ..... 490Vac

#### INSTRUMENT POWER

“A” models ..... none required  
 “E”, “C”, “CX5” models... 100-135Vac, 50/60Hz, 3.0VA  
 “E2” models ..... 12-32Vdc, loop-powered  
 “-22” Option ..... 230Vac, 50/60Hz, ±15%

#### OUTPUT

Output Loading  
 “A” models ..... (0-1mA output) ..... 0-15kΩ  
 “C”, “CX5” models (5V & 10V) ..... 2.5kΩ Min.  
 “E” models ..... (4-20mA) ..... 0-750Ω  
 “E2” models ..... (loop powered) .... 0-600Ω@24V  
 Response Time ..... 300ms

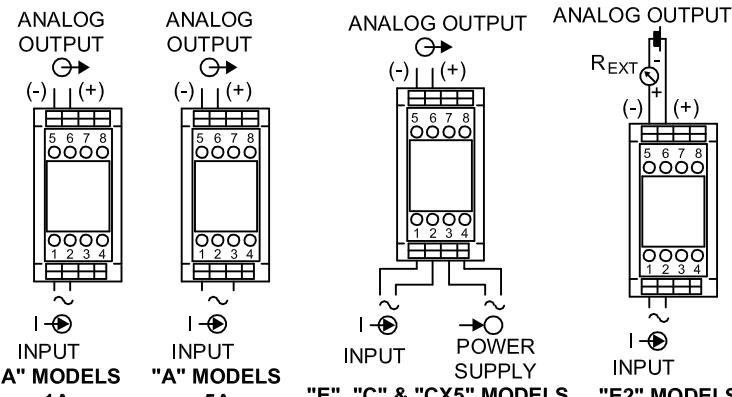
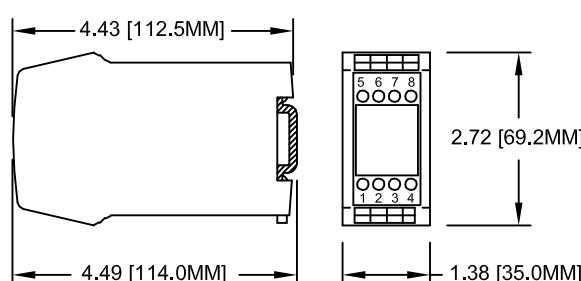
#### ACCURACY

Accuracy ..... ±0.5% F.S. @ 60Hz  
 Includes effects of linearity and setpoint.  
 Output Ripple ..... Less than 1.0% p.p.

#### TEMPERATURE & PHYSICAL

Operating Range ..... -10°C to 55°C  
 Termination ..... wire size up to 10AWG  
 Net Weight ..... 0.65 lb

### CASE DIMENSIONS AND CONNECTIONS



#### NOTES:

1. DIMENSIONS ARE IN INCHES [MM].
2. MOUNTED ON 35MM TOP-HAT DIN-RAIL.

0902-00898-B Rev --

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