

# CURRENT TRANSDUCERS

## AC CURRENT TRANSDUCER

**MODEL MCT5**

### DIN RAIL MOUNTED AC CURRENT TRANSDUCER

#### FEATURES

- Ruggedized Polyamide DIN mount case.
- Slim profile allows maximum use of available space.
- Field selectable analog outputs.
- Recessed terminals provide increased safety.

INPUT	STANDARD OUTPUTS MODEL MCT5-		
	0-1mA*	4-20mA	4-20mA**
0 to 1.0	001A	001E	001E2
0 to 5.0	005A	005E	005E2

\*Models are self-powered from measured AC input line with **DIP switch selectable 0-1mA, 0-5Vdc, or 0-10Vdc output.**

\*\*Denotes 4-20mA loop-powered unit, (15-35Vdc).

All other units require 85-135 VAC instrument power.  
1" wide case can be mounted on Rail EN50035 (DIN 1)  
or Rail EN50022 (DIN3).

Transducer output is derived from the absolute value of the input and calibrated as the RMS value of a sine wave input.

#### APPLICATIONS

- Ideal for use in enclosures with dimensional constraints.
- Designed for industrial environments.
- OEM measurement systems.
- Designed for use with current transformers.
- Easily integrated into control systems.



### MODEL MCT5 SPECIFICATIONS

#### INPUT

Current ..... See Table  
 Frequency Range ..... 48 to 65Hz.;60Hz. Nom.  
 Burden ..... 1 Amp models ..... 0.05VA  
 ..... 5 Amp models ..... 0.175VA  
 Current Overload  
 2 times full scale rating ..... (continuous)  
 10 times full scale rating ..... (10Sec./Hr.)  
 Dielectric Test...(Input/Output) ..... 1500VAC

#### OUTPUT

Output Ripple ..... Less than 1.0% F.S.  
 Response Time ..... (99%) ..... 400 milliseconds  
 Field Adjustable Span .....  $\pm 5\%$

#### OUTPUT LOADING (OHMS):

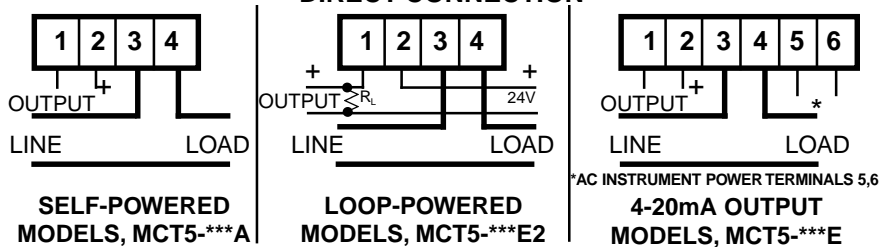
4-20mA ..... 0-500  
 4-20mA(24V Loop Power) ..... 0-600  
 Field Selectable  
 0-1mA ..... 0-10k  
 0-5Vdc ..... Greater than 5M  
 0-10Vdc ..... Greater than 10M

#### ACCURACY (@ 60Hz.)

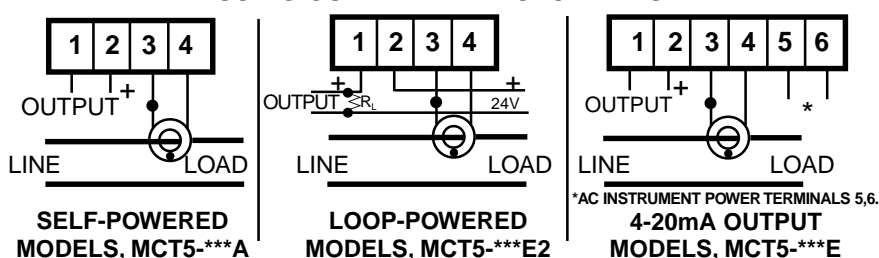
.....  $\pm 0.25\%$  F.S.  
 Includes effects of linearity and setpoint.  
 Temperature Effect ..... (-20°C to 65°C) .....  $\pm 1.0\%$   
 Instrument Power  
 4-20mA ..... 85-135VAC 50/60Hz. 3.5VA  
 Loop Powered ..... 15-35Vdc

### CONNECTION DIAGRAMS

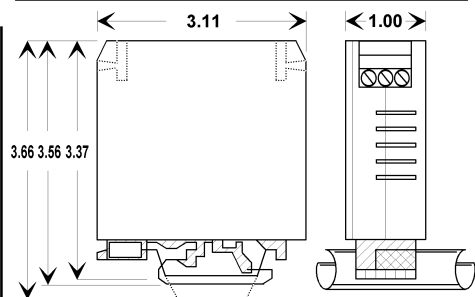
#### DIRECT CONNECTION



#### USING CURRENT TRANSFORMERS



### CASE DIMENSIONS



ALL DIMENSIONS IN INCHES

### OUTPUT SWITCH POSITIONS

OUTPUT REQUIRED	SWITCH POS. 1	SWITCH POS. 2
0-1mA	OFF	OFF
0-5V	ON	ON
0-10V	ON	OFF

Option "A" Models Only

TWO POSITION SWITCH LOCATED BEHIND CENTER CAP ON FRONT OF UNIT.

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