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. "A" Models only.
- Recessed terminals provide increased safety.

INPUT	STANDARD OUTPUTS MODEL MCT5-		
AC CURRENT (AMPS)	0-1mA*	4-20mA	4-20mA**
0 to 1	001A	001E	001E2
0 to 5	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 (DIN2).
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.

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ORDERING INFORMATION
Example: 0-5 Amp Input with 4-20mA Output.
MCT5-005E

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 X Full Scale Rating ..... (continuous)
10 X Full Scale Rating ..... (10Sec./Hr.)
Dielectric Test...(Input/Output) 1500Vac

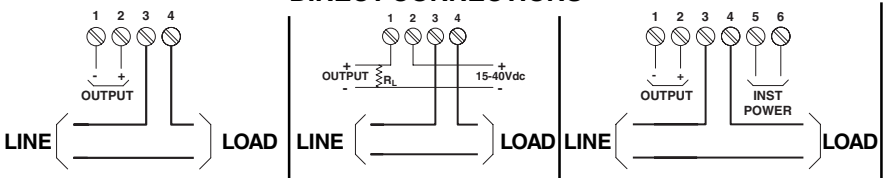
OUTPUT
Output Ripple ..... Less than 1.0% F.S.
Response Time ..... (99%) ..... 400 milliseconds
Field Adjustable Span ..... + 5%
Termination ..... Wire Size 22 to 12 AWG

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.) ..... +0.25% F.S.
Includes effects of linearity and setpoint.
Temperature Effect ..... (-20°C to 65°C) ..... + 1.0%
E Output ..... (-20°C to 40°C) ..... + 1.0%
Instrument Power
4-20mA ..... 85-135Vac, 50/60Hz. ,3.0VA
Loop Powered 15-40Vdc
Weight ..... 0.4 Lbs.

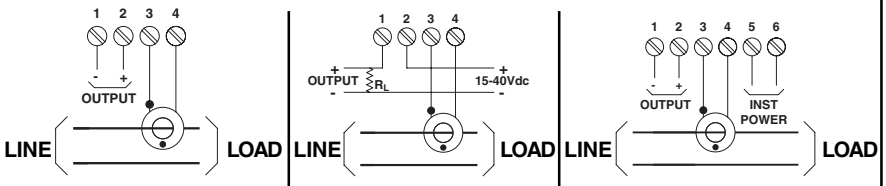
CONNECTION DIAGRAMS

DIRECT CONNECTIONS



Self-Powered Models, MCT5-***A | Loop-Powered Models, MCT5-***E2 | 4-20mA Output Models, MCT5-***E

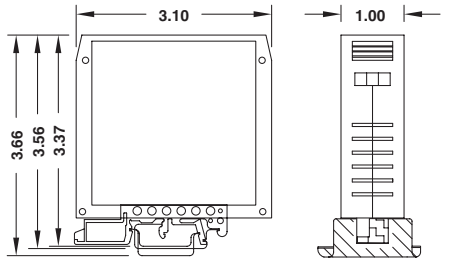
USING CURRENT TRANSFORMERS



Self-Powered Models, MCT5-***A | Loop-Powered Models, MCT5-***E2 | 4-20mA Output Models, MCT5-***E

CASE DIMENSIONS

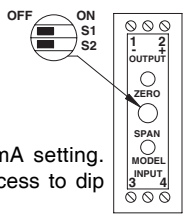
UNIT CAN BE MOUNTED ON:
RAIL EN50035 (DIN 1) RAIL EN50022 (DIN 2)



All Dimensions In Inches

OUTPUT SELECTIONS MCT5-***A

Output	Switch Pos. 1	Switch Pos. 2
0-1mA	OFF	OFF
0-5V	ON	ON
0-10V	ON	OFF



Units are shipped with 0-1mA setting. Remove snap button for access to dip switches.

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