

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-				
	0-1mA [*]	4-20mA	4-20mA ^{**}	0-10Vdc	0-5Vdc
0 - 1	001A	001E	001E2	001C	001CX5
0 - 5	005A	005E	005E2	005C	005CX5

ORDERING INFORMATION

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

DCT - 005E

*A models are self-powered from measured line.

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

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

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

DIELECTRIC TEST

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

ACCURACY

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

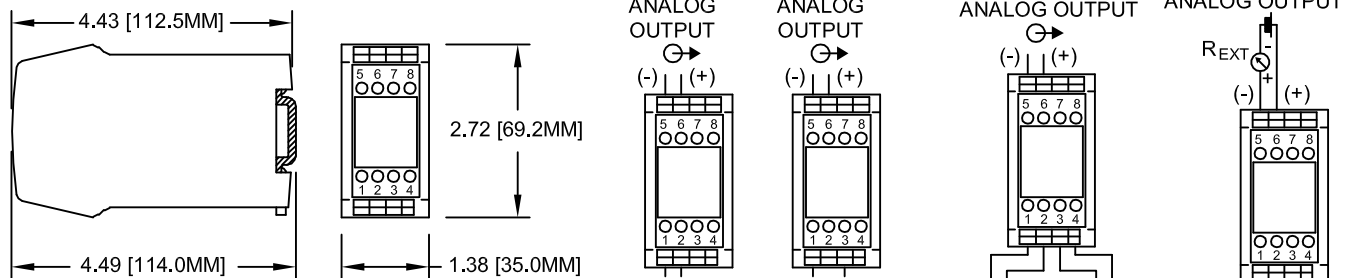
INSTRUMENT POWER

"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%

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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