

OSI SINGLE-PHASE AC VOLTAGE TRANSDUCER MODEL DVT-

DIN-RAIL-MOUNTED AC VOLTAGE TRANSDUCER

DESCRIPTION

The DVT model transducers provide an electrically-isolated output which is proportional to the applied voltage. Transducer output is derived from the arithmetic mean value of the input and calibrated as the RMS value of a sine wave input.

The transducer fulfills requirements and regulations regarding EMC and safety (IEC 1010) and was designed, manufactured and tested in accordance with ISO 9001.

FEATURES

- Voltage ranges up to 600V.
- Current and voltage outputs available.
- Compact DIN-rail packaging.

**5 YEAR
WARRANTY**



APPLICATIONS

- Where voltage measurements are required.
- Where CE or CSA approvals are required.
- SCADA, process control or OEM applications.

MODEL SELECTION

INPUT AC VOLTS	STANDARD OUTPUTS MODEL DVT-				
	0-1mA	4-20mA	4-20mA	0-10Vdc	0-5Vdc
0-90	090A	090E	090E2	090C	090CX5
0-150	120A	120E	120E2	120C	120CX5
0-300	240A	240E	240E2	240C	240CX5
0-600	600A	600E	600E2	600C	600CX5

* "A" models are self-powered from measured voltage line.

** "E2" loop-powered models require 12-32Vdc instr. power.

"E", "C" & "CX5" models require instrument power.

Optional 230Vac instrument power - add suffix "-22"

ORDERING INFORMATION

Example: 120Vac Input
with 4-20mA Output.

DVT-120E

DIN Rail lengths available - Consult factory

SPECIFICATIONS

INPUT

Voltage See Table
Frequency Range 50/60Hz
Burden <2VA
Overload 120% of F.S.

DIELECTRIC TEST

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

INSTRUMENT POWER

"A" models Self-powered
"E", "C" & "CX5" models 100-135Vac, 50/60Hz, 3VA
"E2" loop-powered models 12-32Vdc
"-22" Option 230Vac, 50/60Hz, ±15%

OUTPUT

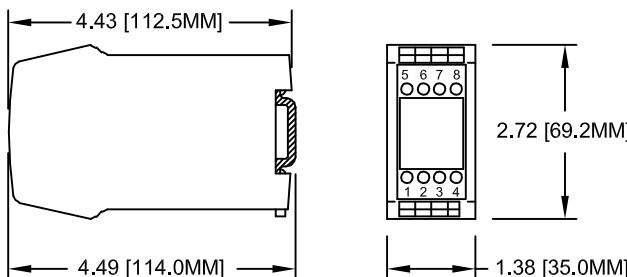
Response Time (to 90% F.S.) 300ms
Loading
 "A" models 0-15kΩ
 "C" & "CX5" models 2.5kΩ minimum
 "E" models 0-750Ω
 "E2" models 0-600Ω @ 24V

ACCURACY ±0.5% F.S. @ 60Hz
Includes effects of linearity (20%-100%) and setpoint.
Output Ripple <1.0% p.p.

TEMPERATURE & PHYSICAL

Temperature Range -10°C to +55°C
Termination #10 AWG max.
Net Weight 0.6 lb

CASE DIMENSIONS

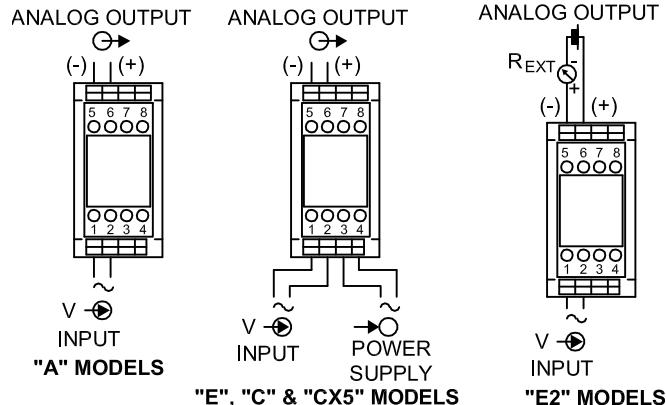


NOTES:

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

Dwg# 0902-00866-B Rev --

CONNECTION DIAGRAMS



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