

# OSI DIFFERENTIAL FREQUENCY TRANSDUCER MODEL DFD-

## FEATURES

- Frequency measurement of sinusoidal and distorted waveforms.
- Compact DIN rail package. CE and CSA approvals.

## APPLICATIONS

- Where frequencies of two different power systems need to be compared.
- SCADA, generation and co-generation.



## MODEL SELECTION

INPUT FREQUENCY (Hz)		STANDARD OUTPUTS MODEL DFD-				
Fs	Fg	0-1mA	0-10Vdc	0-5Vdc	4-20mA	0-20mA
50	45-55	050B	050D	050X5	050E	050EA
60	55-65	060B	060D	060X5	060E	060EA
400	375-425	400B	400D	400X5	400E	400EA

All standard models require instrument power.

Additional frequency and voltage ranges available - consult factory

## ORDERING INFORMATION

Example: Power System Frequency 60Hz, Generator Frequency 55-65Hz, with 0-5Vdc Output

**DFD - 060X5**

DIN Rail lengths available - consult factory

## SPECIFICATIONS

### INPUT

Frequency Range..... See Table  
 Voltage Range..... 10-230Vac  
 Overload .... Continuous ..... 120% F.S.  
     1 sec. ..... 200% F.S.

Burden..... <1.0VA

### OUTPUT

Output Loading.. 0-1mA ..... 0-15KΩ  
 0-10Vdc, 0-5Vdc ..... 2.5kΩ min.  
 4-20mA, 0-20mA..... 0-750Ω

Response Time ..... 4 Periods of Input Frequency

### INSTRUMENT POWER

Standard..... 85-230Vac/dc, 50/60Hz, 4.0VA

### DIELECTRIC TEST

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

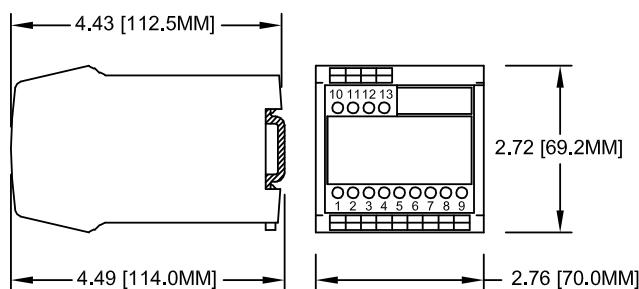
### ACCURACY

50Hz., 60Hz. Models ..... ±0.02Hz.  
 400Hz. Model ..... ±0.1Hz.  
 Output Ripple ..... <0.5% pk-pk

### PHYSICAL

Temperature Range ..... -10°C to +55°C  
 Termination..... #10 AWG max.  
 Weight ..... 0.75 lbs.

## CASE DIMENSIONS AND CONNECTION DIAGRAM



#### NOTES:

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

Dwg #0902-00899-B Rev --

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