



FREQUENCY DIFFERENTIAL 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.



INPUT FREQUENCY (Hz)		STANDARD OUTPUTS MODEL NUMBER DFD-				
F_s	F_G	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 models require instrument power.

**ADDITIONAL FREQUENCY AND VOLTAGE RANGES
AVAILABLE - CONSULT FACTORY**

ORDERING INFORMATION

Example: Power system frequency 60Hz,
generator frequency 55 - 65 Hz, with
0 - 5Vdc output
DFD - 060X5

MODEL DFD SPECIFICATIONS

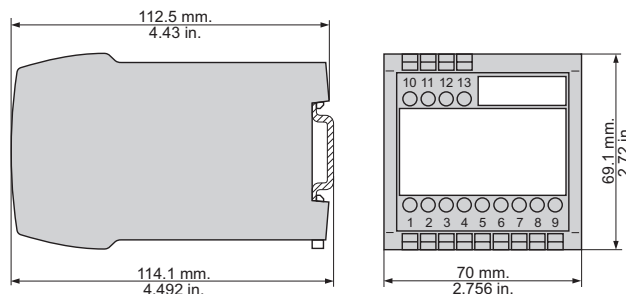
INPUT

FREQUENCY RANGE: See table
VOLTAGE RANGE: 10 - 230V
BURDEN: less than 1.0VA
OVERLOAD: 120% F.S. voltage continuous
200% F.S. voltage for 1 sec
ISOLATION: 4000Vac

OUTPUT

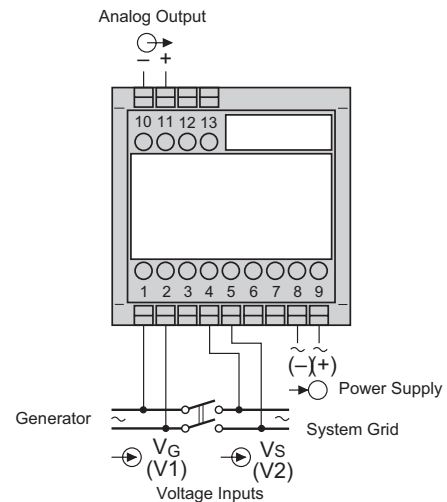
ACCURACY:
50 Hz., 60 Hz. models: ± 0.02 Hz.
400 Hz. model: ± 0.1 Hz.
LOADING (OHMS):
0 - 1 mA: 0 - 15K
0 - 10Vdc, 0 - 5Vdc: 2.5K min.
4 - 20mA, 0 - 20mA: 0 - 750
OUTPUT RIPPLE: less than 0.5% p.p.
RESPONSE TIME: less than 80 milliseconds
TEMPERATURE RANGE: -10°C - $+55^{\circ}\text{C}$
INSTRUMENT POWER:
85 - 230Vac/dc, 40 - 400Hz, 4VA

CASE DIMENSIONS



Mounted on 35 mm top-hat DIN rail.

CONNECTION DIAGRAMS



OHIO SEMITRONICS, INC.