

FREQUENCY TRANSDUCER

CF

FEATURE

- Measuring Frequency
- Low output ripple
- High impulse & Surge protection
- High stability & low cost



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SPECIFICATION

INPUT: Frequency

Input Range		Input Burden
Frequency	Voltage	
45 - 55 Hz	110V ± 20%	≤ 0.15VA
55 - 65 Hz	220V ± 20%	
45 - 65 Hz	380V ± 20%	
	416V ± 20%	

OUTPUT:

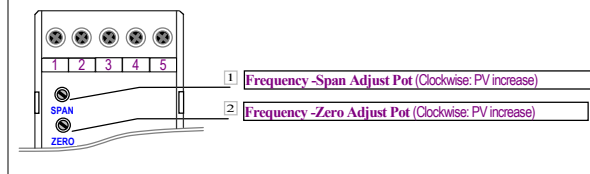
Output Range	Load Resistance	Output Resistance	Output Ripple
0 ~ 1 V	≥ 50 ohm	≥ 0.001 ohm	≤ 0.2% R.O.
0 ~ 5 V	≥ 250 ohm		
0 ~ 10 V	≥ 500 ohm		
1 ~ 5 V	≥ 250 ohm		
2 ~ 10 V	≥ 500 ohm	≥ 20M ohm	
0 ~ 1 mA	0 ~ 15K ohm		
0 ~ 5 mA	0 ~ 3000 ohm	≥ 6M ohm	
0 ~ 10 mA	0 ~ 1500 ohm		
0 ~ 20 mA	0 ~ 750 ohm		
4 ~ 20 mA	0 ~ 750 ohm		

- Accuracy: ≤ ±0.1% R.O.
- Max. input over capability: Voltage: 1.5 x rated continuous
2 x rated for 10 seconds
4 x rated for 2 seconds
- Response time: ≥ 250 msec.
- Span adjustment: ≤ ±5% of R.O. (or ±20% of R.O. specify)
- Zero adjustment: ≤ ±2% of R.O. (or ±20% of R.O. specify)
- Output load effect: Current output ≤ 0.1% R.O.
Voltage output ≤ 0.05% R.O.
- Power supply: AC 115/230V ±15%, 50/60 Hz
Option: AC 380 or 416V ±15%, 50/60 Hz
Option: DC 24V, 48V, 110V, 220V ±10%
Self Powered: Interior connection from input Volt
Working Volt: ±15% rated of input voltage
- Power effect: ≤ 0.05% R.O.
- Power consumption: ≤ 2.5VA
- Mutual interference effect: ≤ 0.1% R.O.
- Magnetic field strength: 400ATM ≤ 0.2% R.O.
- Operating temperature: 0~60 °C
- Operating relative humidity: 20~95 %RH, non-condensing
- Temperature coefficient: ≤ 100 PPM/°C
- Storage temperature: -10~70 °C
- Dielectric Strength: IEC 414, IEC 688:1992, ANSI C37.90a
Between Input / Output / Power / Case
AC 4KV, 50/60Hz, 1 min.
- Surge test: IEC 255-4, ANSI C37.90a
6KV, 1.2 x 50 µsec.
Common mode & differential mode
- Safety: IEC 414, BS 5458
- Enclosure: IEC 529 (IP50)
- Isolation: Input / Output / Power / Case
- Insulation resistance: ≥ 100M ohm, DC 500V

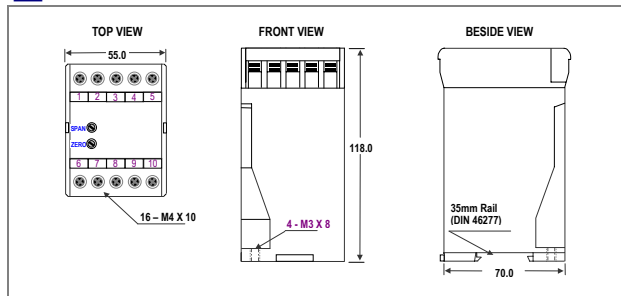
- Performance: Designed it comply with IEC 688
- Mounting: Wall or DIN rail (EN 50022)
- Weight: Under 450g

ADJUSTMENT

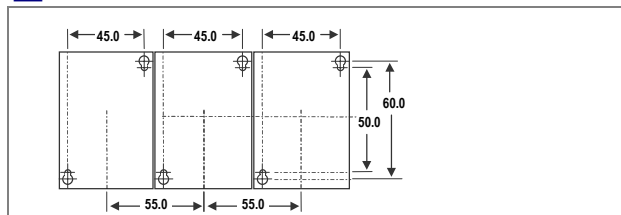
Frequency



DIMENSIONS



PANEL MOUNTING HOLES



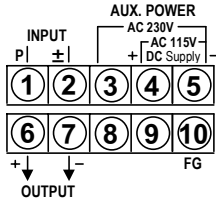
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FREQUENCY TRANSDUCER

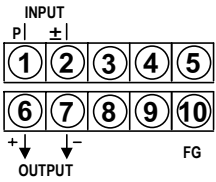
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CONNECTION DIAGRAM

1Φ2W (Aux. Powered)



1Φ2W (Self Powered)



Self-powered type:
Auxiliary powered was
inter connection from V₂.

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POWER TRUE SYSTEMS CORP.

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ORDER INFORMATION

CF - Input - Input Level - Output - Aux. Power

COD	INPUT FREQUENCY
4	45 ~ 55 Hz
5	55 ~ 65 Hz
6	45 ~ 65 Hz
O	Specify

COD	INPUT LEVEL
1	110 V
2	220 V
3	380 V
4	416 V
O	Specify

COD	OUTPUT RANGE
A1	0 ~ 1 mA
A2	0 ~ 5 mA
A3	0 ~ 10 mA
A4	0 ~ 20 mA
A5	4 ~ 20 mA
AO	Specify (mA o/p)

COD	OUTPUT RANGE
V1	0 ~ 1 V
V2	0 ~ 5 V
V3	0 ~ 10 V
V4	1 ~ 5 V
VO	Specify (V o/p)

COD	AUX. POWER
A1	AC 115/230 V
A2	AC 380 V
A3	AC 416 V
D2	DC 24 V
D4	DC 48 V
D1	DC 110 V
D3	DC 220 V
AS	Self Powered
O	Specify

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