

FREQUENCY TRANSDUCER

CF

FEATURES

- Measures Frequency
- Output range programmable by dip-switch
- Low output ripple
- 4kV Isolation
- High stability & low cost



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: Programming by Dip Switch inside

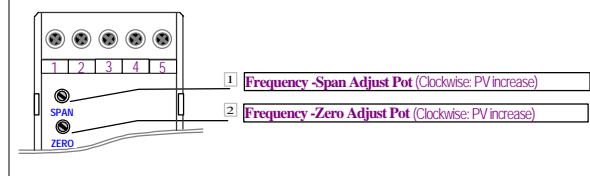
Output Range	Load Resistance	Output Resistance	Output Ripple
0 - 1 V	> 50 ohm	< 0.001 ohm	<0.2% R.O.
0 - 5 V	> 250 ohm		
0 - 10 V	> 500 ohm		
1 - 5 V	> 250 ohm		
2 - 10 V	> 500 ohm	> 20M ohm	
0 - 1 mA	0 - 15K ohm		
0 - 5 mA	0 - 3000 ohm	> 6M ohm	
0 - 10 mA	0 - 1500 ohm		
0 - 20 mA	0 - 750 ohm		
4 - 20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

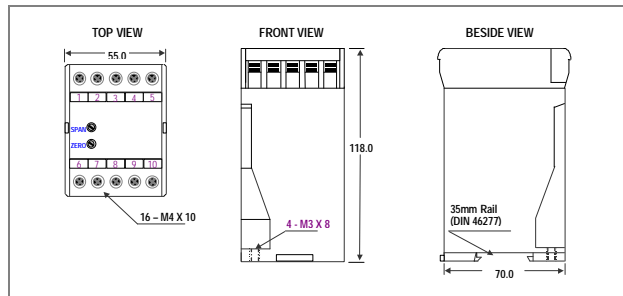
Performance: Designed to comply with IEC 688
Mounting: Wall or DIN rail (EN 50022)
Weight: Under 450g

ADJUSTMENT

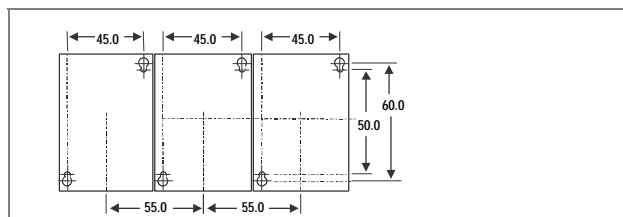
• Frequency



DIMENSIONS



PANEL MOUNTING HOLES

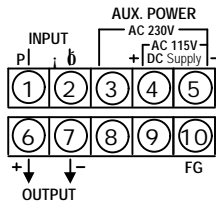


OUTPUT RANGE PROGRAMMING

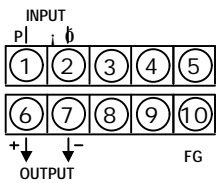
OUTPUT	Dip Switch								Pads	
	1	2	3	4	5	6	7	8		
0 - 1 mA				on						JP7
0 - 5 mA				on	on					
0 - 10 mA				on	on					
0 - 20 mA				on			on			
4 - 20 mA	on			on			on			
0 - 1 V		on	on	on				on		
0 - 5 V			on	on				on		
0 - 10 V				on	on			on		
1 - 5 V	on		on	on				on		
2 - 10 V	on			on				on		

CONNECTION DIAGRAM

• 1P2W (Aux. Powered)



• 1P2W (Self Powered)



Self-powered type:
Auxiliary powered
inter connection from V_e to e_2

ORDER INFORMATION

