

FEATURE

- Measuring Frequency
- Output range programmable by dip-switch
- Low output ripple
- High impulse & Surge protection
- 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%	

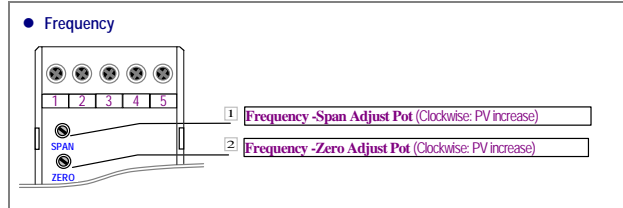
OUTPUT: Programming by Dip Switch inside

Output Range	Load Resistance	Output Resistance	Output Ripple
0 - 1 V	≥ 50 ohm	≈ 0.001 ohm	≤ 0.2% of F.S.
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		

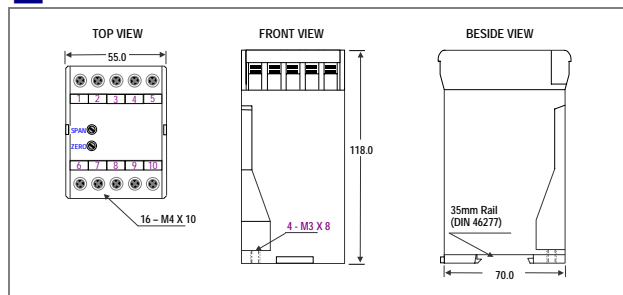
- __Accuracy: ≤ ±0.1% of F.S.
- __Max. input over capability: Voltage: 1.5 x rated continuous
2 x rated for 10 seconds
4 x rated for 2 seconds
- __Response time: ≈ 250 msec.
- __Span adjustment: ≈ ±5% of F.S. (or ±20% of F.S. specify)
- __Zero adjustment: ≈ ±2% of F.S. (or ±20% of F.S. specify)
- __Output load effect: Current output ≈ 0.1% of F.S.
Voltage output ≈ 0.05% of F.S.
- __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% of F.S.
- __Power consumption: ≈ 2.5VA
- __Mutual interference effect: ≈ 0.1% of F.S.
- __Magnetic field strength: 400ATM ≤ 0.2% of F.S.
- __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

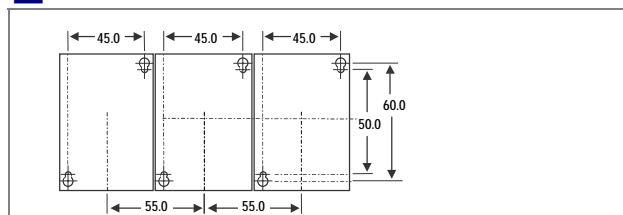
ADJUSTMENT



DIMENSIONS



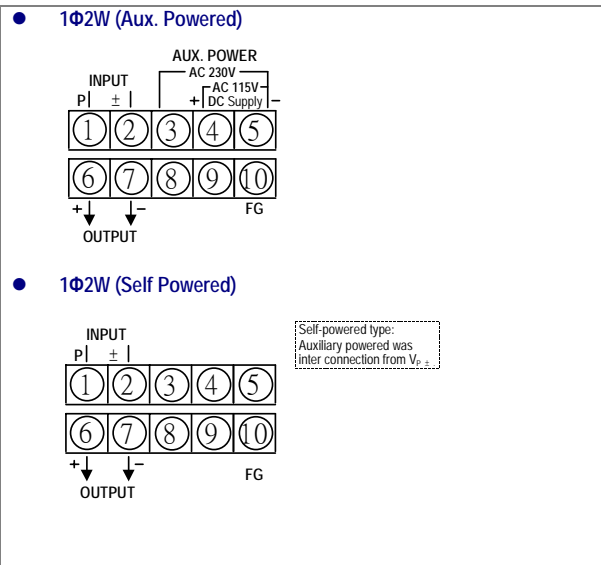
PANEL MOUNTING HOLES



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	
1 - 5 V	on		on	on				on	
2 - 10 V	on			on				on	

CONNECTION DIAGRAM



ORDER INFORMATION

LBCF14 - Input --- Input Level ----- Output ----- Aux. Power

CODE	INPUT FREQUENCY
4	45 - 55 Hz
5	55 - 65 Hz
6	45 - 65 Hz
F	Specify (Hz i/p)

CODE	INPUT LEVEL
1	110 V
2	220 V
3	380 V
4	416 V
V	Specify (V i/p)

CODE	OUTPUT RANGE	CODE	OUTPUT RANGE
A1	0 - 1 mA	V1	0 - 1 V
A2	0 - 5 mA	V2	0 - 5 V
A3	0 - 10 mA	V3	0 - 10 V
A4	0 - 20 mA	V4	1 - 5 V
A5	4 - 20 mA	VO	Specify (V o/p)
AO	Specify (mA o/p)		

CODE	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
DO	Specify DC