

ADC355X Frequency Conditioner

- Supply voltage: 24Vdc / 115Vac / 230Vac
- RFI protection to IEC61000-4-3 available
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

APPLICATION

- Any application where frequency / Pulses are too fast to monitor or utilise and require error free division.
- Any application where pulse width requires to be extended.
- Signal Isolator / Booster / Noise filter
- Signal converter to resolve incompatibility

TECHNICAL SPECIFICATION

INPUT

Can be configured to accept contact closures, open collector, 5V pulses, 24V pulses, low level AC and high level AC signals.

Input Amplitude +/- 0.5 to 100V max

Frequency range 0 Hz to 100KHz.

OUTPUT

Output NPN, PNP, Open Collector, 5V pulses, 24V pulses, up to +/-12V. Drive up to 10mA max.

Output pulse width fixed to specified value or 1:1.

CONTROLS

Cut off: 15 turn potentiometer to set sensitivity / cut off.

INDICATOR

Power ON: LED, Amber.

PERFORMANCE

Linearity: No error

Accuracy: No error

PROTECTION

Input O/C drive downscale

Isolation 1000V RMS. Input/Output/Supply/Earth Internal Fuse.

Input over range up to typically 300%.

ADD ON / OPTIONS

DI: LCD display for local monitoring

J : Input injection jack socket

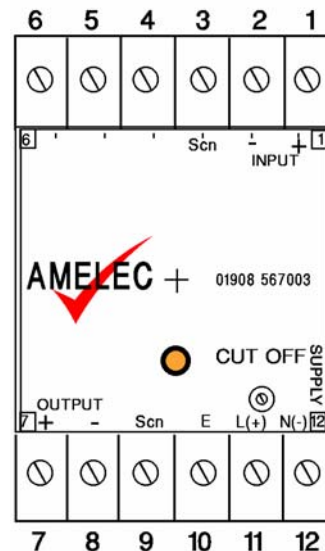
P: Test point

Non standard Power supply ranges available

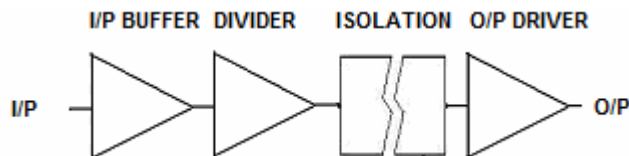
TERMINATION

INPUT +	1
INPUT -	2
Scn	3
	4
	5
	6
OUTPUT +	7
OUTPUT -	8
Scn	9
Earth	10
Live / +	11
Neutral / -	12

FRONT VIEW



FUNCTION BLOCK DIAGRAM



DIVIDER: $OUTPUT = INPUT \div n$

Decade divider: "n" any whole number in the range of 1 to 10.

Binary divider: 2,4,8,16,32,64,128,256,512,1024,2048 4096

CONDITIONER: Isolator / Pulse width extender / Booster/ Converter/ Low level noise filter

ENVIRONMENTAL CONDITION

Storage temperature: - 40 to +70 °C

Operating Ambient: -15 to +55 °C

Relative Humidity: 5 to 95% RH

MOUNTING / DIMENSION

Enclosure: 50w x 75h x 110d

Mounting: Din rail / Surface (optional Panel Mount)

Weight < 200g