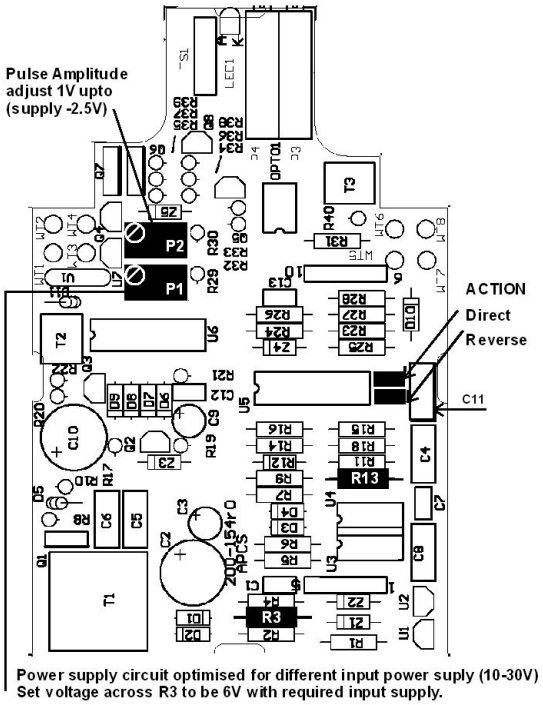
Calibration; Analogue To Pulse Converter APC253

Changing Input Supply

The module will work over a range of 10-30Vdc, however the actual working range must be set up to reduce heating of the internal components as follows.

1. Power the unit from the required working voltage.
2. Adjust P1 to set the voltage across R3 to approximately 6Vdc.



Power supply circuit optimised for different input power suply (10-30V)
Set voltage across R3 to be 6V with required input supply.

Changing Output Pulse Amplitude

Set the output pulse amplitude using P2.

Output Frequency Range

1. R13 and C11 must be fitted to suit the required frequency range. R13 and C11 can be calculated or selected from the table.
2. The span (±15% of range) and zero (±10% of range) are adjusted to the required calibration.

Calculate $R13 = \frac{23 \times 10^6}{max.frequency}$ $C11 > 10^{-12\text{times}} R13$

or use table

Frequency (Hz)	R13	C11
0-50	470K	470nF
0-100	220K	330nF
0-250	91K	150nF
0-500	47K	100nF
0-1000	22K	33nF
0-2000	10K	15nF
0-5000	4K7	10nF
0-10000	2K2	3n3F
0-15000	1k5	1n5