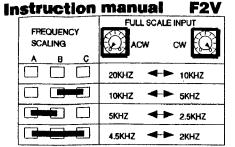
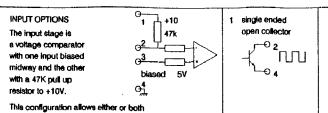
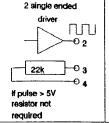
## Bardac drives

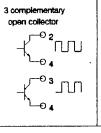


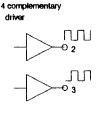


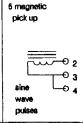






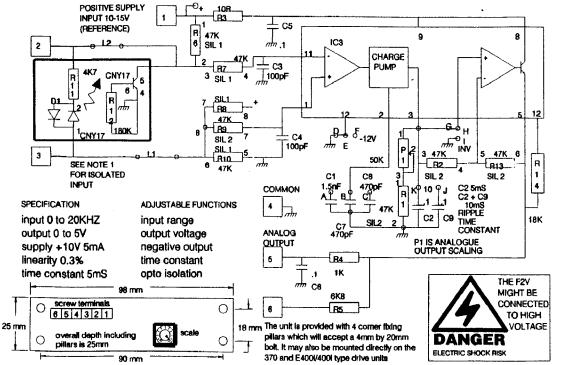






Provision has been made to fit an opto isolator. This may be required if a non-isolated drive s to be used and the pulse encoder is not able to float at mains potential. The pulses energise the opto LED through R11 via T2 and T3. Two solder side links L1 and L2 are broken to allow the opto isolator to be fitted. NOTE the circuitry will be at a dangerous potential. The input frequency is limited to 10KHZ with the opto isolator fitted. T3 is the pulse input.

inputs to be taken to +/-24V.



The F2V is a complex component only for professional assemblers. The unit is CE marked according to LVD 73/23/EEC amended 93/68/EEC. Follow these installation guidelines for EMC compatability. Further measures may be necessary. Installers must have a level of technical competence to correctly install. The EMC behaviour is the responsibility of the manufacturer of the system or installation using this component. The F2V is a linear analogue component and noise emissions are minimal. Use the unit in the same enclosure as the drive unit. Comply with the installation guidelines of the drive unit.

> HEALTH AND SAFETY AT WORK, ELECTRICAL DEVICES CONSTITUTE A SAFETY HAZARD, I IS THE RESPONSIBILITY OF THE USER TO ENSURE COMPLIANCE WITH ANY ACTS OR BYLAWS IN FORCE. ONLY SKILLED PERSON HOULD INSTALL THIS EQUIPMENT.

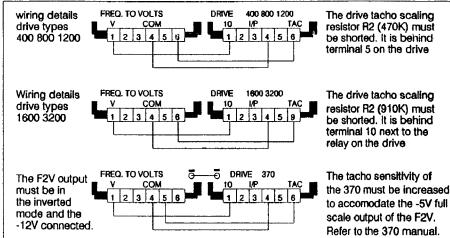
BARDAC CORP. DOES NOT ACCEPT ANY LIABILITY WHATSOEVER FOR THE INSTALLATION, FITNESS FOR PURPOSE OR APPLICATION OF ITS PRODUCTS. IT IS THE USERS RESPONSIBILITY TO ENSURE THE UNIT IS CORRECTLY USED AND INSTALLED

## **OUTPUT OPTIONS**

The analogue output voltage is directly proportional to the input frequency. The +10V supply is taken from the drive reference which is also usually fed to the speed setpoint potentiometer. This method eliminates errors due to reference drift. The output is a 0-5V signal available at T5. A seperate output is also available via. a 6.8K resistor at T6 whichis designed to interface directly with the tacho input of drive units.

## INVERTED OUTPUT

Provision is made for the output to be inverted. Two links must be altered to provide this function. GH broken HI made DE broken EF made a negative supply of -12V must also be connected to the solder pad. The output range is 0 to -5V. This mode is required if the speed feedback signal must be negative. EG with the 370 type drive.



The drives E400i and 400i have 4 mounting holes for the F2V unit. Terminals 1, 2, 4, 6 are connected to the signal pads marked 1, 2, 4, 6 and R2 (470K) is removed. Pin 16 which was the tacho input now becomes a single ended open collector pulse input. R2 can be found directly behind the connector pin 22.

SET UP PROCEDURE first set the drive up in armature voltage feedback mode with the output from the F2V unit disconnected. Calculate the full scale frequency and select the appropriate frequency range on the F2V. With the drive at full speed adjust the SCALE preset to obtain 5V at terminal 5 of the F2V. When this has been achieved TURN OFF the power and connect the F2V output to the drive and modify the drive feedback resistors as detailed above. Turn on and fine tune MAX SPEED.