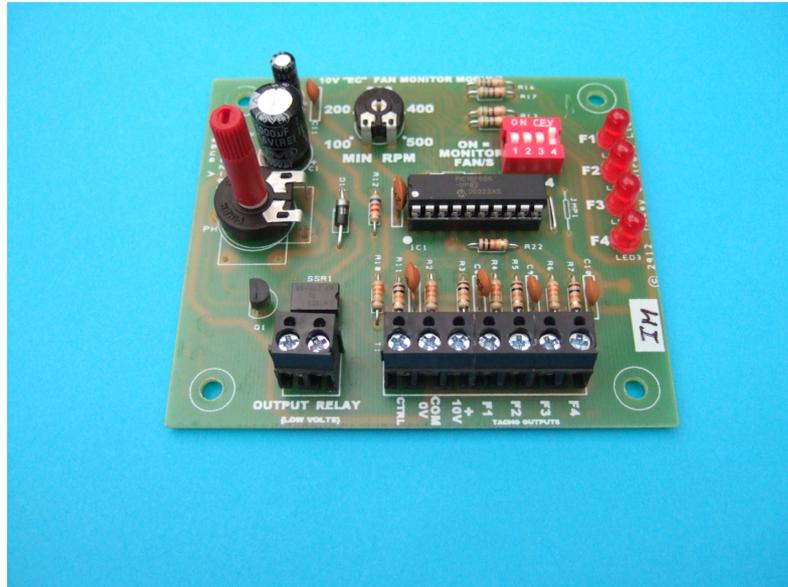


MACEY CONTROLS LTD

4 WAY 10V EC FAN MONITOR (WITH SPEED CONTROL)



This module allows remote monitoring of up to 4 EC fans. It uses the Tacho output of the EC Fan/s. If any fan/s drop below a pre-set RPM then a fault output is generated. Fault conditions are given out by a solid state relay and on board LED indication for each fan.

The module works off the 10 volts from the EC Fan/s. It also incorporates a simple speed control for the fans (optional).

Operation

Three versions of software are available :-

A]

The tacho output of the fan/s are monitored if any fan drops below the adjustable minimum RPM for longer than 30 seconds then relay output switches into a fault condition. For the unit to switch back to a non fault condition the fan/s speed must go above the minimum RPM for longer than 30 seconds.

The minimum RPM can be adjusted on site between 100 to 500 RPM (common to all fans).

B]

As A above but the minimum RPM is pre-set within the software and cannot be adjusted on site.

C]

This version is auto adjusting. If only one fan is being monitored then the minimum RPM is preset within the software (typically 50 RPM). However if two or more fans are being monitored then the unit will detect the fastest fan

and if any other fan/s are found to be running at a lower* speed then a fault output will be generated (with time delays as per A above). The fastest fan speed will be continually monitored and averaged over a 60 second period.

* The lower fan speed to cause a fault condition will be pre set within the software at a percentage of the fastest fan I.E. 50%

Technical Notes

The unit is designed for EC Fans that have an open collector tacho output. Standard is one pulse per revolution, (two pulses per revolution can be catered for).

The PCB has a 4 way DIL switch which allows the selection of how many fans are to be monitored (1 to 4).

The module is powered from the 10 volts available from the EC Fan/s

The module has 4 LED's which indicate the status of each fan input.

The solid state relay is rated at 50V 100mA (AC or DC) normally closed state {switching to open circuit for low fan speeds and or loss of the 10V supply from the fans}

Size PCB 90 x 80 x 30mm (excluding speed control spindle).

If you require further information regarding prices availability special options we may be contacted as below.

Macey Controls Ltd
Crystal Haven House,
Hanworth lane,
Chertsey,
Surrey.
KT16 9JX
UK

Phone (0)1932 571 990 Fax (0)1932 571 939
sales@maceycontrols.com