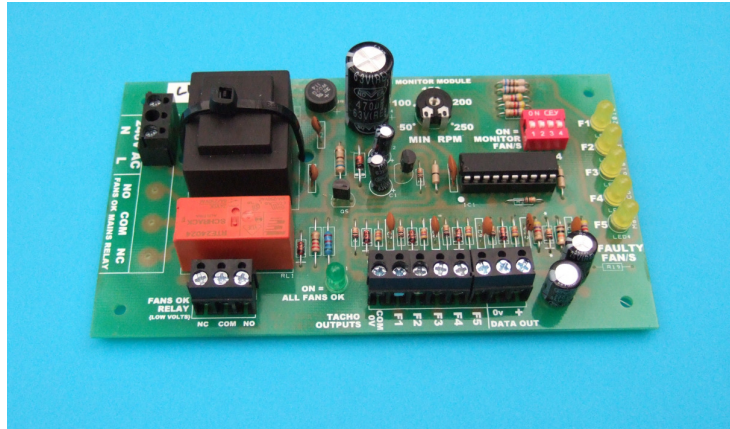


MACEY CONTROLS LTD

5 WAY EC FAN MONITORING MODULE



This module allows remote monitoring of up to 5 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 voltage free relay contacts, on board LED indication and also an analogue DC voltage.

Operation

The tacho output of the fan/s are monitored if any fan drops below the minimum RPM for longer than 30 seconds the 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 between 50 and 250 RPM (common to all fans). A DC analogue output is also available which can be remotely monitored to determine individual fan status (see technical Notes below).

Technical Notes

The unit is designed for EC Fans that have an open collector tacho output. The PCB has a 4 way DIL switch which allows the selection of how many fans are to be monitored (1 to 5). The module is mains powered as standard but can be supplied to run off 24V AC. The module has an LED which indicates the status of the output relay. The module also has 5 LED's which indicate the status of each fan input. Size PCB 144 x 80 x 30mm. Set out below is information on the analogue data output.

The pair of terminals marked DATA 0v and + provide an analogue output that can identify which fan is in alarm. When the output voltage on terminal DATA + is greater than 4.5v then the equipment is powered and there is no alarm.

If the speed of one fan falls below the minimum, the output voltage changes.

To indicate	Output voltage
Fan 1	0.75
Fan 2	1.5
Fan 3	2.25
Fan 4	3.0
Fan 5	3.75

If multiple fans fail, the output indicates the lowest numbered fan.
If power fails, the voltage goes to zero.

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

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