### CN1003 controller



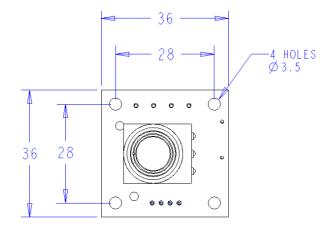
**General remarks:** The CN1003 controller is designed for use with the full range of ebm-papst ECi (Electronically Commutated with integrated electronics) fans, it is powered via the DC output from by the fan and provides a 0-10V signal to enable infinitely variable speed control. The controller also enables speed measurement of the fan using a multimeter with a frequency measuring facility (where a tacho output is provided from the fan).

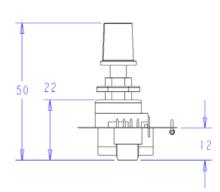
**Specification:** Input voltage 10 VDC (supplied from fan); Maximum ambient temperature 50°C; Mounting hole diameter 10mm; Output voltage range 0-10 VDC.

Nominal data	Supply voltage	Current draw max	Perm.amb.temp.	Mass
Type	VDC	mA	°C	kg
CN1003	10	1.1	50	0.05

Subject to alterations

### **Dimensions**





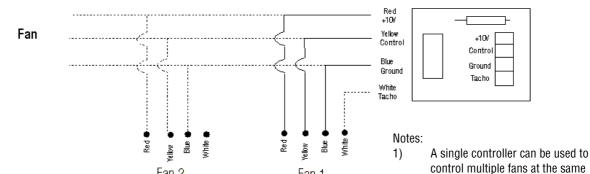




## CN1003 controller







# Fan 2 Fan 1 control multiple fans at the same speed setting 2) Connection to the controller is via four screw terminals or a Molex connector

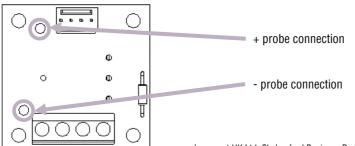
- (range of connection leads available)
  When the tacho wire is required this can only be connected to one fan (see
- Remove the push fit knob and lock nut.
   Drill a 10mm hole in the panel, install controller & fix using locking washer & nut.
   Install in a dry sheltered position that provides suitable protection for the bare PCB. Do not install in close proximity to heat sources.
- 4) The maximum ambient temperature of the controller must not exceed 50°C.

### Speed measurement

Installation

Connect a multimeter set to measure frequency on the probe points (marked + and -) on the PCB. The fan provides 1 pulse per revolution so the measured frequency can be converted to rpm using the following equation:

 $RPM = Frequency (Hz) \times 60$ 



### Note A

Please note that under rare operating conditions it is possible that leaving the tacho wire permanently connected may lead to a small reduction in the maximum speed.

ebm-papst UK Ltd, Chelmsford Business Park, Chelmsford, Essex, CM2 5EZ +44 (0) 1245 468555 www.ebmpapst.co.uk



