

PBEC_v SERIES EC FAN AUTO/MANUAL MODULES

FOR SWITCHBOARDS WITH NO Auto/Off/Manual EC FAN CONTROL SWITCH.
Auto/Off/Manual SELECTION BY ONBOARD 3 POSITION SLIDE SWITCH.
ONBOARD RELAY ENERGISES ON MANUAL OR AUTO CONTROL WITH C/O CONTACTS. MODULE HAS ONBOARD 12vDC VOLTAGE SOURCE FOR MANUAL POTENTIOMETER SIGNAL .

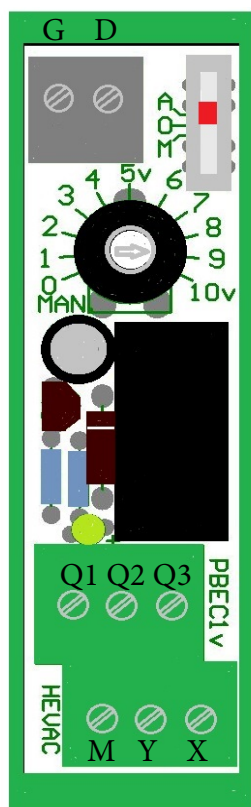


PBEC-1v

- Made in Australia to Australian Standards.
- Multiple I/O versions : single, 3 way, 5way.
- Auto Run 24v Active & 0-10v Control Signal from BMS, or Manual by A/O/M Slide Switch on-board.
- Manual potentiometer can adjust output from 0-10vDC.
- Potential Free (24v 1Amp max.) SPDT Fan Enable Relay or Run Indication Output.
- 2 wire signal to EC fan (+ 2 wires if relay enable O/P required)
- Onboard Relay Status L.E.D
- Din rail mount low profile.

APPLICATION

*The PBEC1v module is intended for use as a low cost alternative to traditional plug in relays & potentiometers for Auto/Off/Manual EC fan speed interlocks & control, with this version mainly intended for use with switchboards with no switchboard fascia Auto/Off/Manual EC fan control switches. The device is available in 3 versions - a Single output module PBEC-1v, a triple version PBEC-3v or a 5 way version PBEC-5v. The onboard relay is energised either by an external 24v active Auto control Run signal (typically BMS run interlock) or via the onboard Auto/Off/Manual slide switch. The output 0-10vDC signal to the EC fan is derived either from the onboard potentiometer in **Manual** mode or to pass through the 0-10vdc signal from an external control device (BMS) fan speed control signal in **Auto** mode. The potentiometer shaft/knob can be removed exposing only a hexagonal hole to decrease the ability of tampering post commissioning manual fan speed settings if desired.*



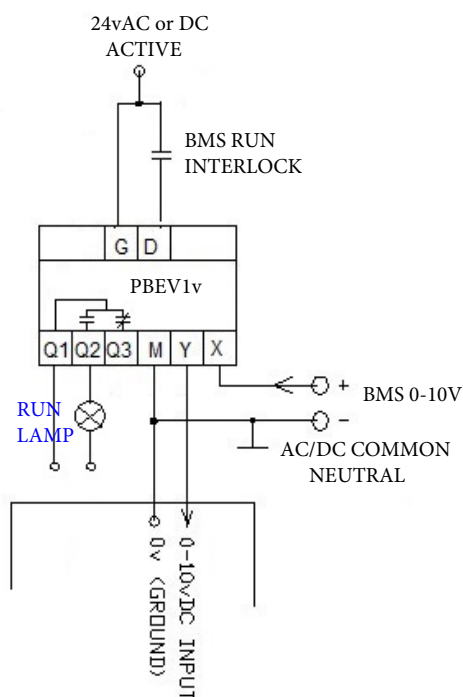
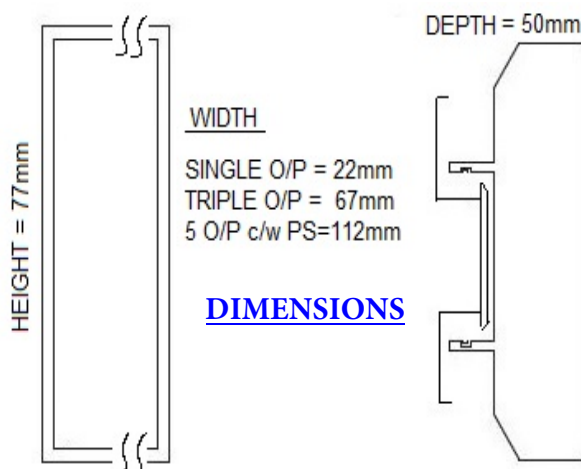
3 POSITION
A / O / M
SLIDE SW.

MANUAL
0-10v OUTPUT
POTENTIOMETER

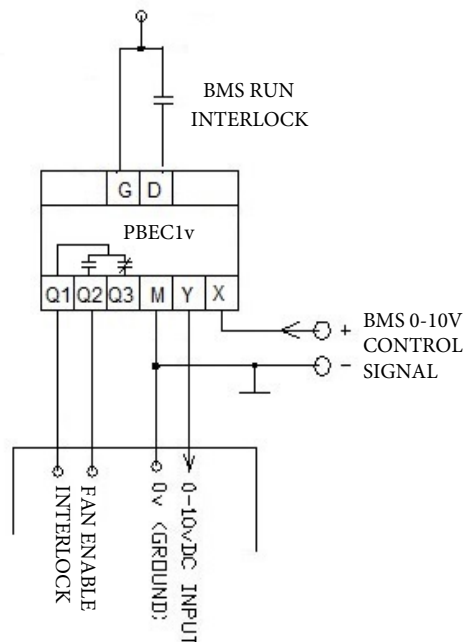
ON-BOARD LED
TO INDICATE
RELAY STATUS

TERMINAL LEGEND

G	24v ACTIVE (for Manual mode supply)
D	24v ACTIVE to energise Auto mode
Q1	RELAY COMMON
Q2	RELAY N/O
Q3	RELAY N/C
M	24v NEUTRAL & EC Fan DC ground interlock
Y	EC Fan 0-10Vdc output control interlock
X	External (AUTO) 0-10vdc signal input



**BASIC EC FAN SPEED CONTROL
WITH VARIABLE EXTERNAL
CONTROL INPUT & MANUAL
SPEED SELECTION VIA 3 POSITION
ONBOARD SWITCH.**



**EC FAN SPEED CONTROL WITH
VARIABLE EXTERNAL INPUT &
MANUAL SPEED VIA ONBOARD
SWITCH C/W FAN RUN RELAY
ENABLE INTERLOCK.**

Hevac does NOT offer or suggest this product is suitable for use in fire mode control of fan operation.

For maximum compliance & safety we recommend for fire mode operation, breaking the 0-10v Y signal from this module and connecting a fire mode set of relay contacts directly across the EC fans "10v" supply & "Y" input terminals & enabling run contacts if the fan also has enable terminals.