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CONTROL AGENCIES PTY.LTD.

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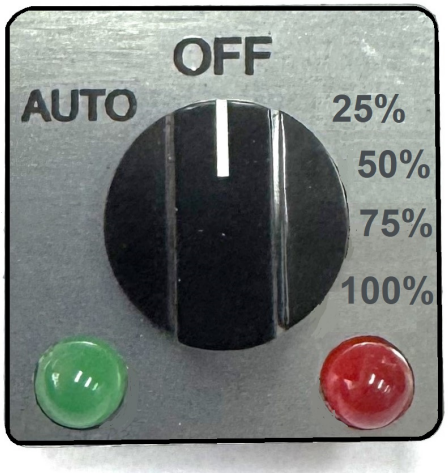
EC FAN CONTROL SELECTION GUIDE

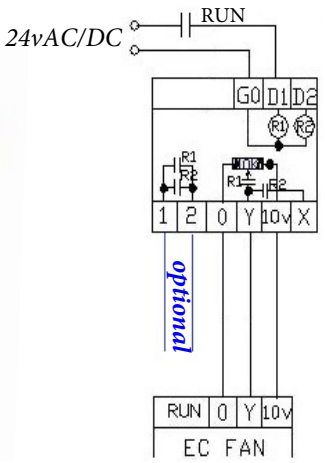
MAY 2025



SECTION 1 : MANUAL SPEED CONTROL SWITCHBOARD MOUNT

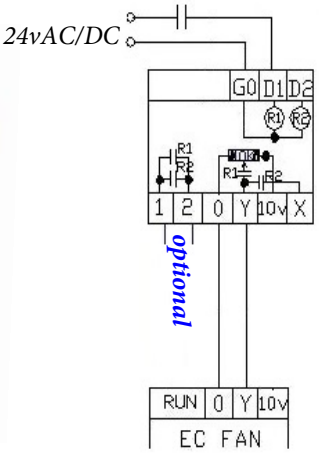
AWEC-1

24v POWERED 0-10vDC OUTPUT.
3 wire control. *c/w ONBOARD RELAY FOR ENABLE or RUN INTERLOCK.*



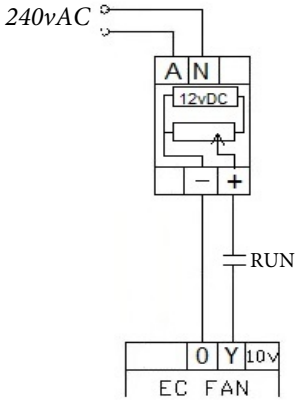
AWEC-1V

24v POWERED 0-10vDC OUTPUT
c/w ONBOARD RUN RELAY.
c/w onboard 12vDC supply for 2 wire control.



LT-MECF-240v

240vAC POWERED ADJUSTABLE 0-10vDC OUTPUT c/w OUTPUT INDICATOR LED (varies brightness).

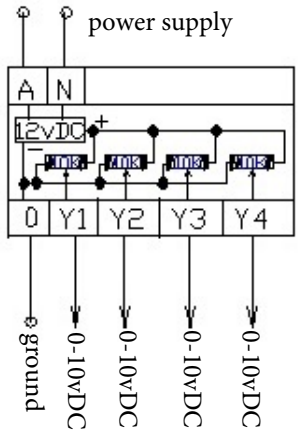


YOP4-24V

4 x INDEPENDENT 0-10vDC OUTPUTS.
AVAILABLE IN 24V or 240V POWERED VERSIONS.

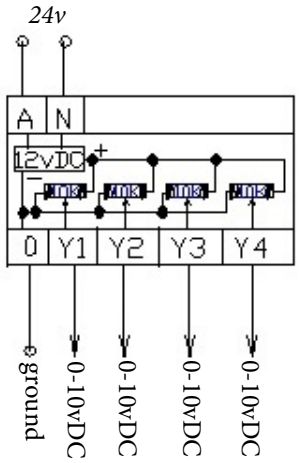
24v version

240v version



PYOP4-24V

SWITCHBOARD FACIA / PANEL MOUNT VERSION OF YOP4.
Suitable as 24v powered version only.
c/w STANDOFFS & KNOBS

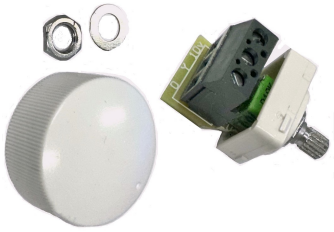


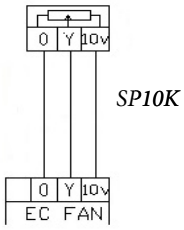
SECTION 2 : MANUAL SPEED CONTROL FIELD MOUNT

TO SUIT CLIPSAL 2000 STYLE WALL PLATE

SP10K

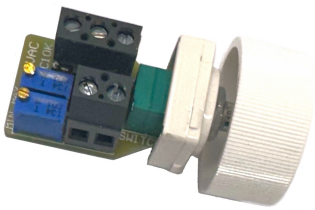
10K POTENTIOMETER FITTED TO PCB c/w TERMINALS AND CLIPSAL SWITCH PLATE COUPLING

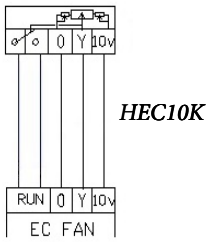




HEC10K

10K POTENTIOMETER c/w ELECTRICALLY INDEPENDANT SPST SWITCH (OPERATES AT START POSITION.) PLUS MIN./MAX LIMITING TRIM POTS TO LIMIT MAIN POTENTIOMETER OUTPUT RANGE. INTENDED FOR MOUNTING IN STANDARD CLIPSAL SWITCH PLATE.





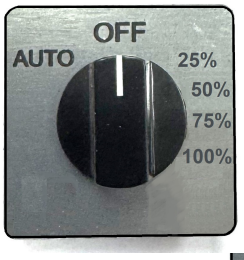
SWITCHBOARD CAM SWITCHES

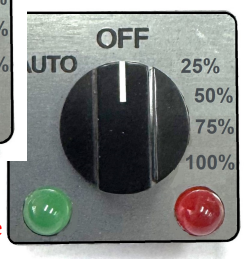
SWCS

Auto/Off/Manual 2P6T CAM SWITCH c/w ON/OFF SWITCH OUTPUT + 4 MANUAL MODE DC VOLT OUTPUTS

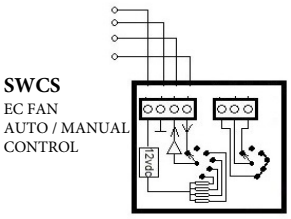
SWCS-RF

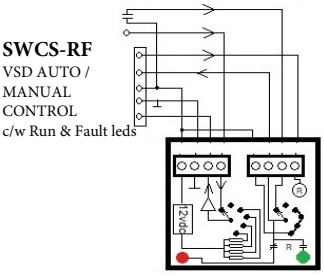
Auto/Off/Manual 2P6T CAM SWITCH c/w ON/OFF SWITCH OUTPUT, 4 MANUAL MODE DC VOLT OUTPUTS + RUN & FAULT LEDS VIA RUN PROVING INPUT.





New versions in design please inquire





EURO STYLE WALL SWITCH PLATE 86mm SQ.

ALTERNATIVE MOUNTING ON STANDARD CLIPSAL PLATE ON REQUEST

HBSG21.#

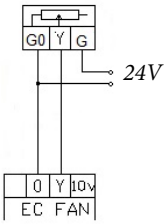
VARIOUS RESISTANCE POTENTIOMETER VALUES & SCALE RANGE STICKERS AVAILABLE

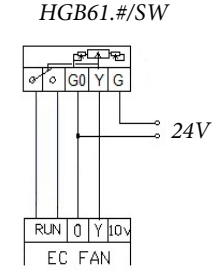
HBSG61.#

24V POWERED 0-10V OUTPUT. / VARIOUS SCALES

HBSG61.#/SW.

AS ABOVE c/w ISOLATED ON/OFF SWITCH.

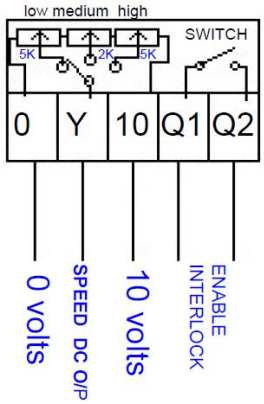




EC-3SPD

NEW

ALTERNATIVE EC FAN CONTROL WITH NORMAL 0-10vDC SIGNAL OUTPUT PRODUCED AS 3 FIXED (TRIMABLE) OUTPUTS. OUTPUT SELECTED BY A 4 POSITION ROTARY SWITCH.
OFF / LOW / MEDIUM / HIGH



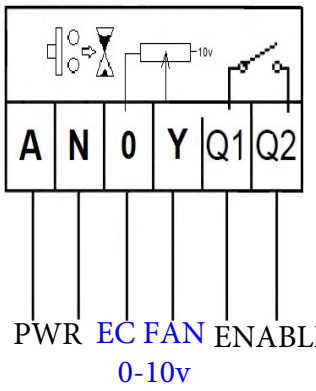
HRT-EC

RUN TIMER FOR EC FANS WITH RELAY & (SETTABLE) 0-10vDC FIXED OUTPUT.
1-8 Hr versions Available.

24V & 240v Versions **NEW**

HRT-EC-HI/LO

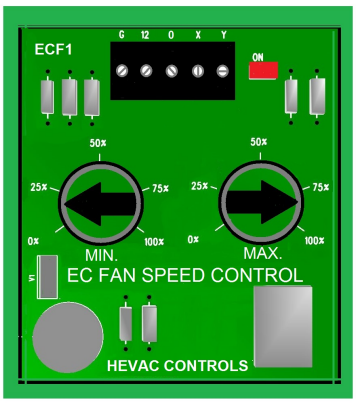
SIMILAR TO ABOVE BUT LOW/ HIGH SPEED DC OUTPUT. OUTPUT JUMPS TO HIGH SPEED BY TIMER BUTTON PRESS (note no relay output this version).

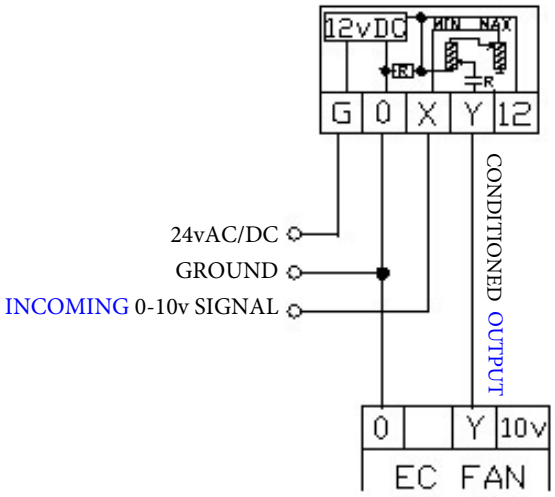


SECTION 3 : SWITCHBOARD MOUNTED 0-10V SIGNAL INTERLOCKS

ECF1

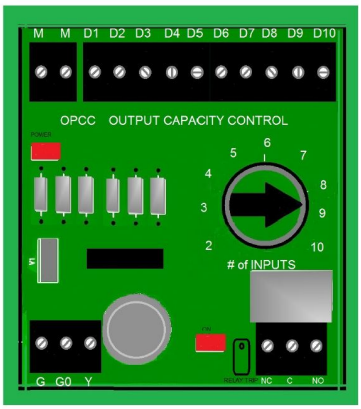
MIN. & MAX. LIMITATION OF EXTERNAL 0-10vDC CONTROL SIGNAL (USED WHEN MAIN CONTROLLER CANNOT LIMIT MIN / MAX OF ITS SIGNAL OUTPUT).

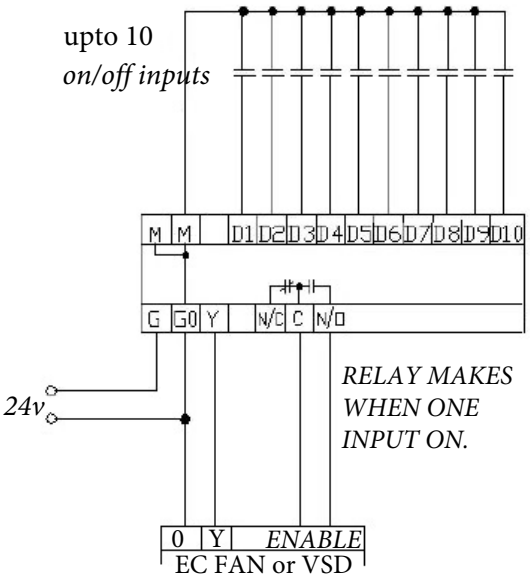




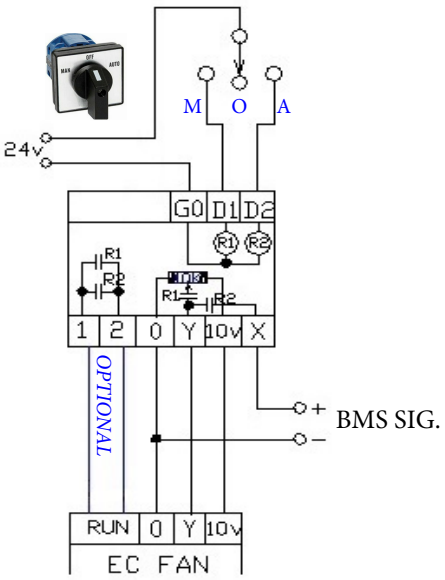
OPCC

24vAC/DC POWERED INTERFACE MODULE. CONVERTS MULTIPLE ON/OFF INPUTS TO PROPORTIONAL 0-10vDC SIGNAL



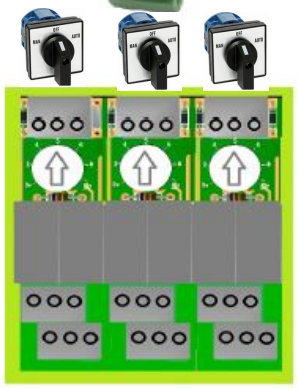


AUTO/OFF/MANUAL



AWEC-1

0-10v SIGNAL SELECT INTERFACE.
USED WITH A 3 POSITION SWITCHBOARD SWITCH (VIA THIS MODULE) TO SELECT EITHER AN EXTERNAL BMS 0-10v SIGNAL or ONBOARD 10K POTETIOMETER TO CONTROL EC FAN SPEED.

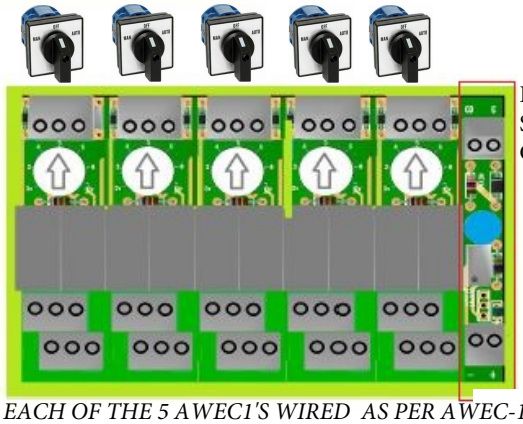


AWEC-3

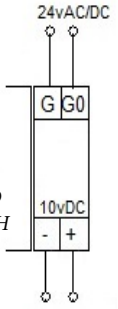
AS ABOVE BUT TRIPLE AWEC-1 IN ONE MODULE

AWEC-5

5 x AWEC-1 IN ONE MODULE c/w ONE COMMON 10vDC POWER SUPPLY CARD.
(saves using 10v supply wires from five EC fans).
24v AC/DC POWERED.



POWER SUPPLY CARD



10vDC SUPPLY LOOPED TO EACH AWEC-1

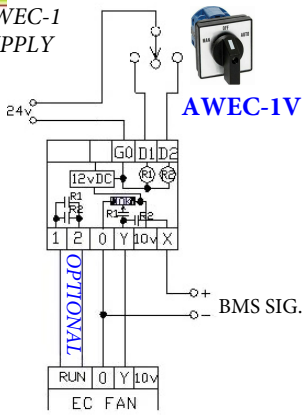
EACH OF THE 5 AWEC1'S WIRED AS PER AWEC-1 BUT USING ONBOARD COMMON 10VDC SUPPLY

AWEC-1V

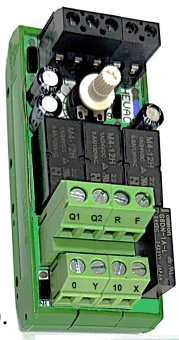
AS PER AWEC-1 WITH THE ADDITION OF ONBOARD 12vDC SUPPLY FOR 2 WIRE CONTROL. c/w **ONBOARD 12vDC supply**

AWEC-3V & 5V

AS ABOVE BUT THREE or 5 AWEC-1V's IN ONE COMMON HOUSING.

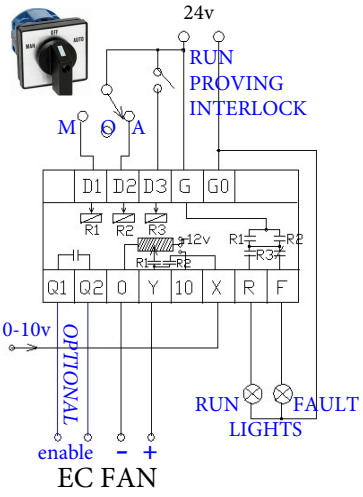


NEW ALSO SEE NEW CAM SWITCH / AWEC1v COMBINED SERIES SWCS



EAWEC-1V *NEW*

ENHANCED VERSION OF AWEC-1V WITH THE ADDITION OF A RUN PROVING INPUT & 24V RUN & FAULT OUTPUTS (VIA RELAY CONTACTS).



EC-VSD *NEW*

ALL THE FEATURES OF THE ABOVE **EAWEC-1V**, PLUS THE ADDITION OF OUTPUT SIGNAL CONDITIONING > INCLUDING RAMP UP & DOWN TIME DELAYS & MIN. / MAX LIMITION OF OUTPUT SIGNAL, EFFECTIVELY GIVING AN EC FAN THE TYPICAL ADJUSTMENTS ON A VSD.

HEVAC Control Agencies

NEW

INTERIM LEAFLET

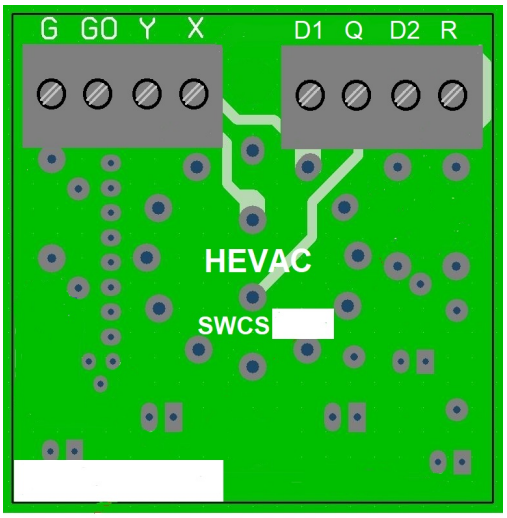
SWCS SERIES CAM SWITCHES FOR 0-10vDC CONTROL OF EC FANS & VSD's

- **Made in Australia to Australian Standards.**
- **EC fan /VSD 1, 4 or Variable Manual mode DC Signal Output.**
- **Trimmable Maximum / Cal. DC output (manual mode)**
- **Auto/Manual Enable or Run Switched Output**
- **Onboard 12vDC power supply for manual mode analogue output.**
- **Run Proving Input (from C.Tor D.P etc) to L.E.D's (-RF versions)**
- **Standard typical 50mm switchboard cam switch size.**

APPLICATION :

The SWCS series of cam switches offers an economical alternative approach to using Hevac's A/O/M internal switchboard din rail mount AWEC1v module which is typically used in conjunction with a conventional 3 position A/O/M cam switch. The SWCS combines these two functions enabling Auto/Off /Manual (as either a fixed 4 speed manual mode selection or variable via a recessed trim pot in the fascia) directly from the switchboard fascia to interlock with any 0-10vDC controllable devices without having to open the switchboard. The 0-10v output signal is typically directly connected to an EC fan or VSD and is derived either from the on-board rotary switch in any of the "Manual" mode positions, or in the"Auto" position, to pass through the 0-10vdc signal from an external control device (ie BMS or stand alone controller). The SWCS incorporates an onboard 12vDC power supply to source the devices manual speed positions. The switch mechanism is a double gang switch with the 2nd gang used as a switched on/off output in the the auto & manual positions for use as an external run indication interlock or to provide a switched enable output typically required by VSD's. (SWCS)-**RF** versions have the additional feature of RUN & FAULT status L.E.D's with a N/O Run input interlock typically from a C.T, Pressure,VSD or Flow proving switch.

TERMINAL LEGEND

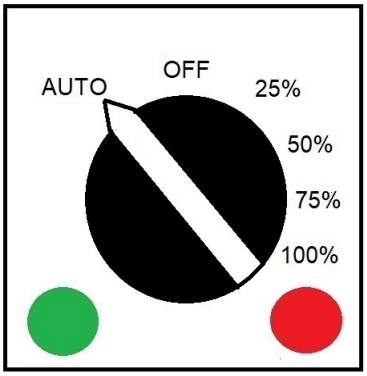


G 24v ACTIVE
G0 24v NEUTRAL
Y 0-10vDC OUTPUT TO CONTROLLED DEVICE
X 0-10vDC INPUT FROM EXT. SOURCE (AUTO)

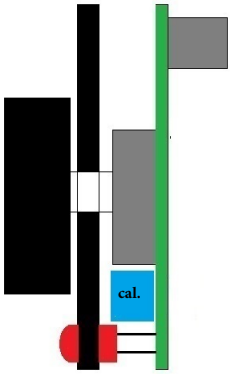
D1 MANUAL 24v RUN FEED (normally link to G)
Q ENABLE OUTPUT TO CONTROLLED DEVICE
D2 AUTO 24v RUN FEED (from ext auto run call)
R C.T or FLOW PROVING 24v INPUT

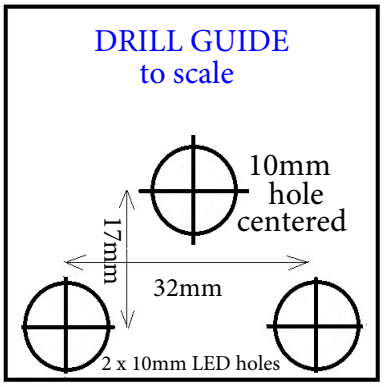
DIMENSIONS

50mm SQUARE



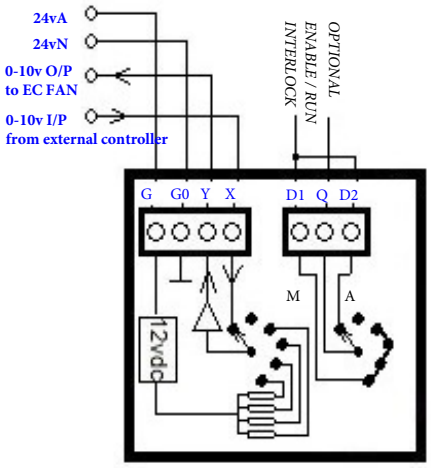
25mm 35mm



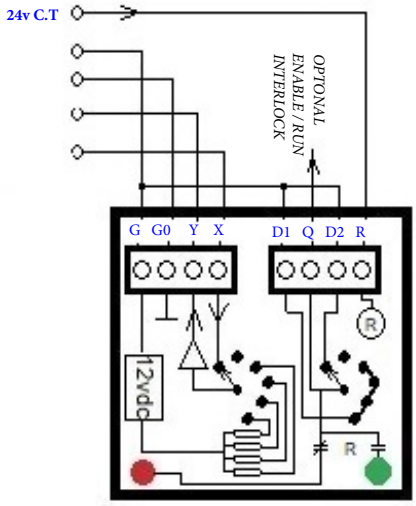


BOTTOM 2 HOLES ONLY FOR RF VERSION

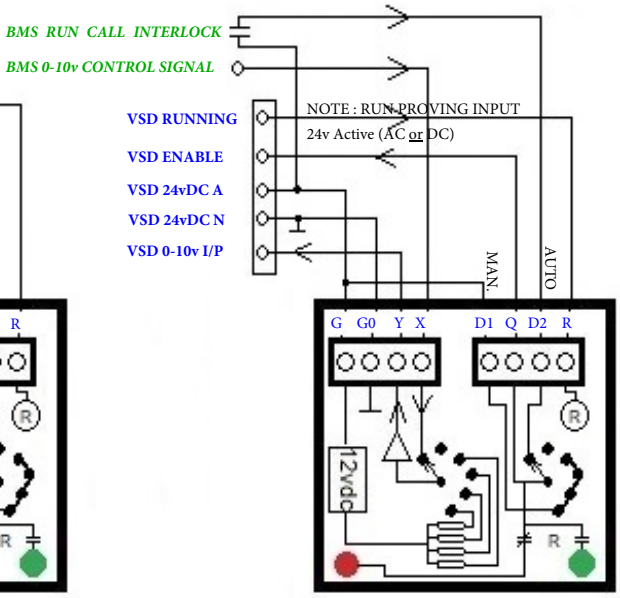
POWER SUPPLY CAN BE 24v AC or DC



EC FAN A / O / M
CONTROL
SWITCH



EC FAN A / O / M
CONTROL SWITCH c/w
RUN & FAULT I/P's



VSD A / O / M
CONTROL SWITCH c/w
RUN & FAULT I/P's

AVAILABLE MODELS

SWCS-3P	Basic 3 position Auto/Off/Manual switch for 24vAC or 0-10v switching
SWCS-3P-RF	As above with Run input to drive on board Run & Fault leds.
SWCS-4P	4 Position switch Auto/ Off / Manual (10v) / Variable speed trim
SWCS-4P-RF	As above with Run input to drive on board Run & Fault leds.
SWCS-6P	6 Position switch Auto/ Off / Manual 4 speed settings, 25, 50, 75 & 100%
SWCS-6P-RF	As above with Run input to drive on board Run & Fault leds.

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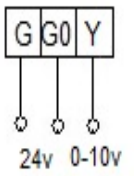
SECTION 4 : COMMON EC FAN AUTO CONTROL CONCEPTS

ROOM* or *DUCT *TEMP. & CO2 SENSOR WITH* ***DIRECT 0-10v CO2 CONTROL*** *OUTPUT OVER SETTABLE RANGE (ie 600-800 ppm co2) FOR CONTROL OF EC FAN, VSD or F/A DAMPER.*

HSMO-DQ

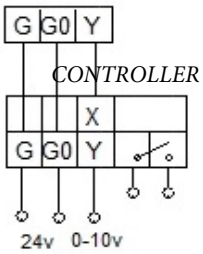
CDT2D40



RWD68 + SENSOR

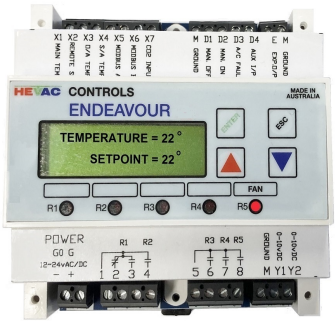
SIEMENS BASED RWD68 UNIVERSAL CONTROLLER WITH REQUIRED SENSOR : TEMP, CO2, VELOCITY or PRESSURE TO CONTROL EC FAN 0-10v + RELAY OUTPUTS

SENSOR



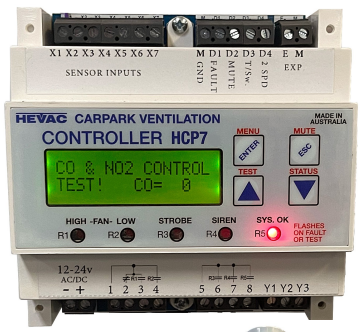
ENDEAVOUR + SENSOR

HEVAC ENDEAVOUR UNIVERSAL CONTROLLER WITH REQUIRED SENSOR : TEMP, CO2, VELOCITY or PRESSURE. MULTIPLE I/O WITH RELAY & 0-10V O/Ps. ***C/W 365 DAY TIME SWITCH & AHR TIMER.***



HCP7

CARPARK CO *VENTILATION COMPLIANT TO AS1668.2, CAN READ UPTO 7 CO or NO2 SENSORS & EXPANDABLE TO 42 SENSORS VIA EXP7 EXPANSION MODULES.*

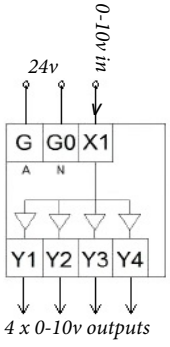


SACO *24 or 240Vpowered versions*

SINGLE POINT CARPARK CO VENTILATION SENSOR / CONTROLLER. COMPLIANT TO AS1668.2 . Relay & 0-10v Outputs

HYSA4

0-10vDC SIGNAL DUPLICATOR FOR DRIVING HIGH LOADS CAN TYPICALLY DRIVE UPTO 16 VSDs, JET FANS OR EC FANS.



SCM220 NEW

STAIRWELL PRESSURE *RELIEF FAN SIGNAL CONDITIONING MODULE , GREATLY AIDS IN SYSTEM COMMISSIONING. TYPICALLY USED IN CONJUNCTION WITH HEVAC PRE-PROGRAMMED SIEMENS RLU222 STAIRWELL PRESSURIZATION CONTROL SYSTEM.*