

### B.M.S INPUT - OUTPUT MODULES 3 STAGE RELAY, SEQUENCE, BINARY 0-10VDC

E3RMT

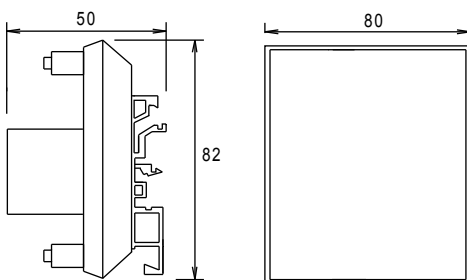
These products accept a 0-10vdc input and produce a 3 stage relay output which can be used for external plant switching. 4 modes of operation can be selected: 3 stage switching, Heat - Cool + Fan, Sequence or 2 Stage Binary. For multi-stage heating & cooling, 2 of these units or other relay modules can be used with the E13.. temperature controllers or similar.



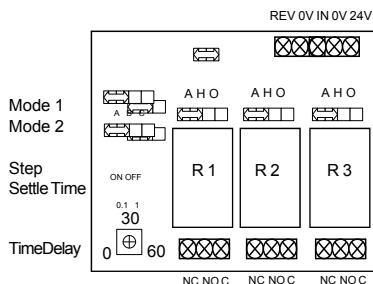
ON-OFF-AUTO Manual Override links on each relay: -  
 ON = Energised  
 OFF = De-energised  
 AUTO = Controller operated  
 Volt free contacts LED's indicate relay status  
 Din-Rail mounting Consumption 80mA  
 Input current > 1 mA  
 Max Ambient -10 /+50°C  
 Flammability = UL94-V0

Type	Supply ±10%	Input Signal	Switch Rating 230VAC SPDT	Operation Selectable	Time Delay	Enclosure
E3RMT	24VAC/DC	0-10VDC	3 x 10(3)A	3 Stage relay or Fan + Cool/Heat Sequence or 2 Stage Binary	0-60s	IP00

**DIMENSIONS:**



**WIRING:**



Time Delay : Allows a time period before each stage switches on or off. Set to 0 if not required.

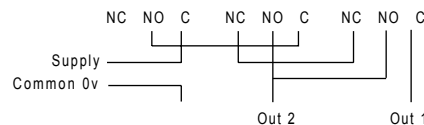
RS : Remove jumper before changing position of JP1 or JP2. Alternatively disconnect the power supply. Replace jumper RS after changing JP1 or JP2

AHO : A = Auto H = Relay On O = Relay Off

JP1/ JP2 : Mode settings

MODE	JP1	JP2
3 stage	A	A
Fan + heat/cool	B	B
Sequence	A	B
2 stage Binary	A	A

Binary Wiring:



**INSTALLATION:**

**3 STAGE RELAY MODE**  
1-3 switch on as input increases

	LOW	MID	HIGH
0v	OFF	OFF	OFF
4v	ON	OFF	OFF
7v	ON	ON	OFF
10v	ON	ON	ON

**FAN - HEAT - COOL MODE**

	FAN	COOL	HEAT
0v	OFF	OFF	OFF
4v	ON	ON	OFF
7v	ON	OFF	OFF
10v	ON	OFF	ON

**SEQUENCE MODE**  
Only 1 stage on at any time

	RL1	RL1	RL 2
0v	OFF	OFF	OFF
4v	ON	OFF	OFF
7v	OFF	ON	OFF
10v	OFF	OFF	ON

**BINARY MODE**

	OUT 1	OUT 2
0v	OFF	OFF
4v	ON	OFF
7v	OFF	ON
10v	ON	ON

All values are maximum switching points. Exact switching points may be slightly lower than those stated.

Terminals 0.5-2.5mm<sup>2</sup> rising clamps  
Screened cable is recommended

Min sensor / control signal cable size 7/0.2mm  
The screen should be earthed at controller end only

Max length 100m

Keep sensor/control signal wires away from power cables/units which may cause interference.