

E4RM

B.M.S INPUT - OUPUT MODULES 4 STAGE RELAY, SEQUENCE, BINARY 0-10VDC

These products accept a 0-10Vdc input and produce a 4 stage relay output which can be used for external plant switching. Suitable for staging (which can be reversed) or sequencing operation. For multi-stage heating & cooling, two of these units or other relay modules can be used with the E13.. temperature controllers or similar.

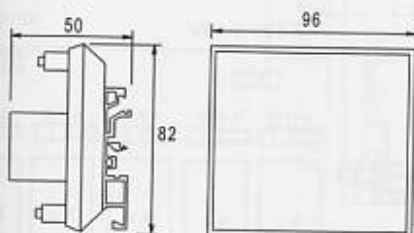


ON-OFF-AUTO Manual Override links on each relay: -
 ON = Energised
 OFF = De-energised
 AUTO = Controller operated
 LED's indicate relay status
 Volt free contacts Input current > 1mA
 Din-Rail mounting Consumption 100mA
 Max Ambient -10 /+50°C
 Flammability = UL94-V0

Type	Supply ± 15%	Input Signal	Switch Rating 230VAC SPDT	Time Delay	Compatibility	Enclosure
E4RM	24VAC/DC	0-10VDC	4 x 10(3)A	0-200s	Most BMS Controllers	IP00

UP TO 10 STAGED SWITCHING ACROSS 0-10VDC CAN BE ACHIEVED WHEN THIS PRODUCT IS USED WITH THE E6RM

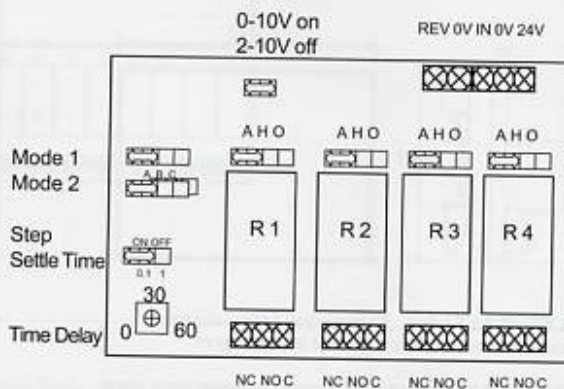
DIMENSIONS:



MODE RESET LINK : Remove link before changing modes and re-fit the link to reset the operation.

TIME DELAY : Allows a time period between each stage switching on or off.

WIRING:



INSTALLATION:

STAGED MODE JP1 = A JP2 = A
 Relays 1-4 switch on as the input signal increases

	RLY 1	RLY 2	RLY 3	RLY 4
0v	OFF	OFF	OFF	OFF
2.4v	ON	OFF	OFF	OFF
4.8v	ON	ON	OFF	OFF
7.2v	ON	ON	ON	OFF
9.6v	ON	ON	ON	ON

SEQUENCED MODE JP1 = A JP2 = B
 Only one relay is on at any time

INPUT	RLY 1	RLY 2	RLY 3	RLY 4
0v	OFF	OFF	OFF	OFF
2.4v	ON	OFF	OFF	OFF
4.8v	OFF	ON	OFF	OFF
7.2v	OFF	OFF	ON	OFF
9.6v	OFF	OFF	OFF	ON

STAGED MODE JP1 = A JP2 = A
 Relays 4-1 switch on as the input signal increases when terminals R-R are closed via a volt free contact.

INPUT	RLY 1	RLY 2	RLY 3	RLY 4
0v	OFF	OFF	OFF	OFF
2.4v	OFF	OFF	OFF	ON
4.8v	OFF	OFF	ON	ON
7.2v	OFF	ON	ON	ON
9.6v	ON	ON	ON	ON

STAGED MODE + E6RM = 10 STG. JP1 = B JP2 = A
 Connect 0-10VDC to both E6RM and E4RM.
 No time delay or reverse action.

INPUT	RLY 1	RLY 2	RLY 3	RLY 4
6v	OFF	OFF	OFF	OFF
7v	ON	OFF	OFF	OFF
8v	ON	ON	OFF	OFF
9v	ON	ON	ON	OFF
10v	ON	ON	ON	ON

BINARY MODE JP1 = B JP2 = B

INPUT	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8	8.4	9.4	9.6
RLY1	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON
RLY2	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON
RLY3	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON
RLY4	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON

All values are maximum switching points. Exact switching points may be slightly lower than those stated.
 Terminals 0.5-2.5mm² rising clamps
 Screened cable is recommended
 Keep sensor/control signal wires away from power cables/units which may cause interference.
 Min sensor / control signal cable size 7/0.2mm
 Max length 100m
 The screen should be earthed at controller end only