

B.M.S INPUT - OUTPUT MODULES
6 (10) STAGE RELAY, SEQUENCE 0-10VDC

E6RM

These products accept a 0-10vdc input and produce a 6 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.

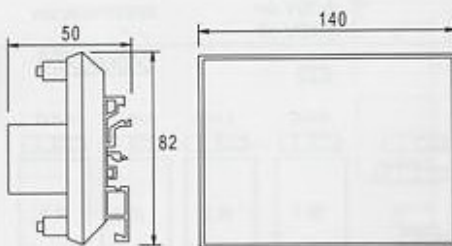


ON-OFF-AUTO Manual Override links on each relay: -
ON = Energised
OFF = De-energised
AUTO = Controller operated
Volt free contacts LED's indicate relay status
Din-Rail mounting Consumption 166mA
Input current > 1mA
Max Ambient -10 /+50°C
Flammability = UL94-V0

Type	Supply ±15%	Input Signal	Switch Rating 230VAC SPDT	Time Delay	Compatibility	Enclosure
E6RM	24VAC/DC	0-10VDC	6 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 E4RM

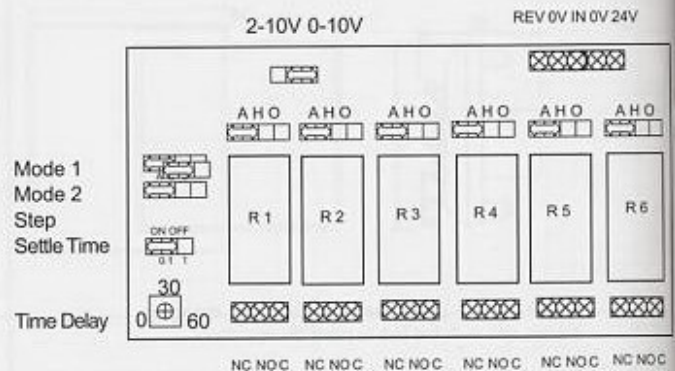
DIMENSIONS:



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 1-6 switch on as the input signal increases.

INPUT	RLY 1	RLY 2	RLY 3	RLY 4	RLY 5	RLY 6
0v	OFF	OFF	OFF	OFF	OFF	OFF
2v	ON	OFF	OFF	OFF	OFF	OFF
3v	ON	ON	OFF	OFF	OFF	OFF
4.5v	ON	ON	ON	OFF	OFF	OFF
6v	ON	ON	ON	ON	OFF	OFF
7.8v	ON	ON	ON	ON	ON	OFF
10v	ON	ON	ON	ON	ON	ON

STAGED MODE - REVERSED JP1 = A JP2 = A
Relays 6-1 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	RLY 5	RLY 6
0v	OFF	OFF	OFF	OFF	OFF	OFF
2v	OFF	OFF	OFF	OFF	OFF	ON
3v	OFF	OFF	OFF	OFF	ON	ON
4.5v	OFF	OFF	OFF	ON	ON	ON
6v	OFF	OFF	ON	ON	ON	ON
7.8v	OFF	ON	ON	ON	ON	ON
10v	ON	ON	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	RLY 5	RLY 6
0v	OFF	OFF	OFF	OFF	OFF	OFF
2v	ON	OFF	OFF	OFF	OFF	OFF
3v	OFF	ON	OFF	OFF	OFF	OFF
4.5v	OFF	OFF	ON	OFF	OFF	OFF
6v	OFF	OFF	OFF	ON	OFF	OFF
7.8v	OFF	OFF	OFF	OFF	ON	OFF
10v	OFF	OFF	OFF	OFF	OFF	ON

STAGED MODE + E4RM = 10 STAGES 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	RLY 5	RLY 6
0v	OFF	OFF	OFF	OFF	OFF	OFF
1v	ON	OFF	OFF	OFF	OFF	OFF
2v	ON	ON	OFF	OFF	OFF	OFF
3v	ON	ON	ON	OFF	OFF	OFF
4v	ON	ON	ON	ON	OFF	OFF
5v	ON	ON	ON	ON	ON	OFF
6v	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 Min sensor / control signal cable size 7/0.2mm Max length 100m
Screened cable is recommended The screen should be earthed at controller end only
Keep sensor/control signal wires away from power cables/units which may cause interference.