## PROGRAMMABLE LATCHING, SEQUENCE \&

## MEMORY RELAY

TYPES: UNI-4LRS (4 x spno)

- FEATURES
- Din rail modular design
- Tri voltage 24VAC/DC, 110VAC, 230VAC
- 4 programmable relay outputs
- Programmable for 6 sequencing/latching functions
- Selectable memory function
- Dual LED indication
- DESCRIPTION \& MODE OF OPERATION

A din rail mounted tri voltage modular latching / sequence relay with a selectable memory option. Outputs are four individual single pole normally open contacts. The unit is programmed via three front selector switches. Switch 1 determines the number of relays in play, switch 2 the function of the latching / sequencing of the relays, switch 3 selects if the memory function is required.
The unit requires a permanent supply to the coil and operation is then achieved by using up to three volt free trigger commands from A1 onto terminals FWD, BCK or RESET. The unit reacts to the leading edge of a trigger input only. If required the trigger input can then be held continuously, if then a leading edge is then seen on any of the other inputs the unit will operate accordingly. A trigger to FWD will cause the unit to switch the relays in a forward manner, whilst a trigger to BCK will cause the unit to step back a position. A RESET trigger will cause the unit to reset back to the first (start) position.
Two LED's indicate the units operation, a green LED to indicate the connection of a supply voltage. The red LED will predominantly be not illuminated however, every 2 seconds it will blink quickly the number of relays energised.

## SWITCH 1 - RELAYS

Determines the number of relays to be in operation
A: 0,1 One relay, minimum relays on $=0$
B: 0,1,2 Two relays, minimum relays on $=0$
C: 1,2 Two relays, minimum relays on $=1$
D: 0,1,2,3 Three relays, minimum relays on $=0$
E: 1,2,3 Three relays, minimum relays on $=1$
F: 0,1,2,3,4 Four relays, minimum relays on $=0$
G: $1,2,3,4 \quad$ Four relays, minimum relays on $=1$
H: All relays permanently off

## SWITCH 2 - FUNCTION

Selects the relay operation pattern
1: Repeat sequential i.e. 1-2-3-4-1-2-3-4-.....
2: Cycle sequential i.e.1-2-3-4-3-2-1-2-.....
3: Limit sequential i.e.1-2-3-4-4-4-4-4-.....
4: Repeat add i.e. 1-1\&2-1\&2\&3-1\&2\&3\&4-1-1\&2-1\&2\&3-.....
5: Cycle add i.e. 1-1\&2-1\&2\&3-1\&2\&3\&4-1\&2\&3-1\&2-.....
6: Limit add i.e. 1-1\&2-1\&2\&3-1\&2\&3\&4-1\&2\&3\&4-1\&2\&3\&4-.....

* If relay position A, B, D or F is selected then " 0 " (no relay energised), also is applicable to any of the above functions settings, i.e. the first (start) position is " 0 ".
* The above functions depict a forward stepping only, if a BCK input is made the unit will move back a position.


## SWITCH 3 - MEMORY (circa 1 month)

ON: On power up the unit will return to the last output state before power was lost
OFF: Will power up on minimum relays set at the beginning of the set pattern, i.e. relay switch set to " $E$ " relay 1 will only energise, set to " $A$ " no relays will be energised.


