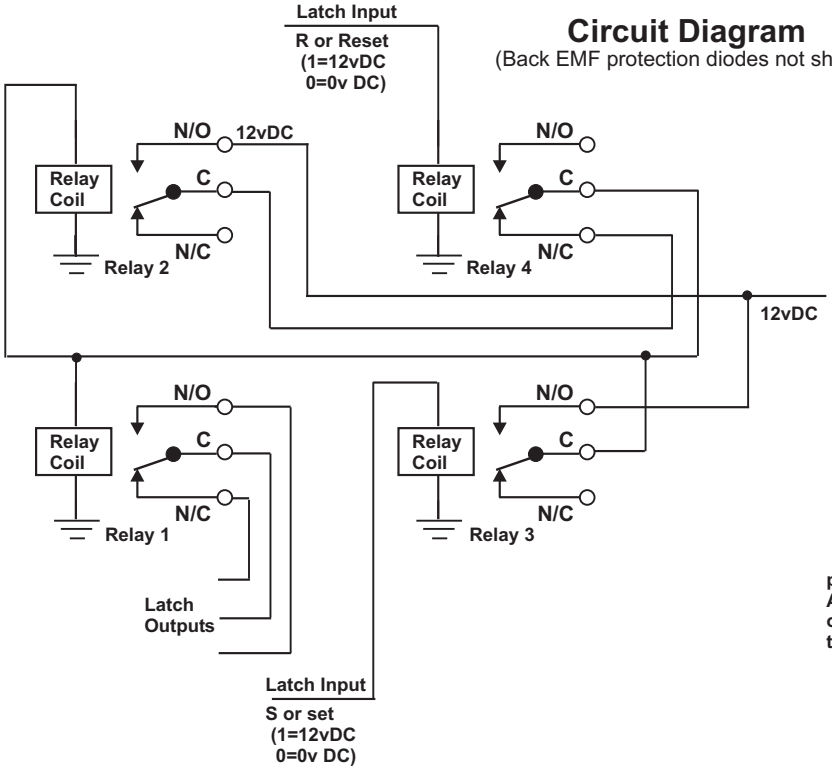
R/S LATCH
Using 4 x SPDT 12v DC Relays

Circuit Diagram
(Back EMF protection diodes not shown.)



Truth Table

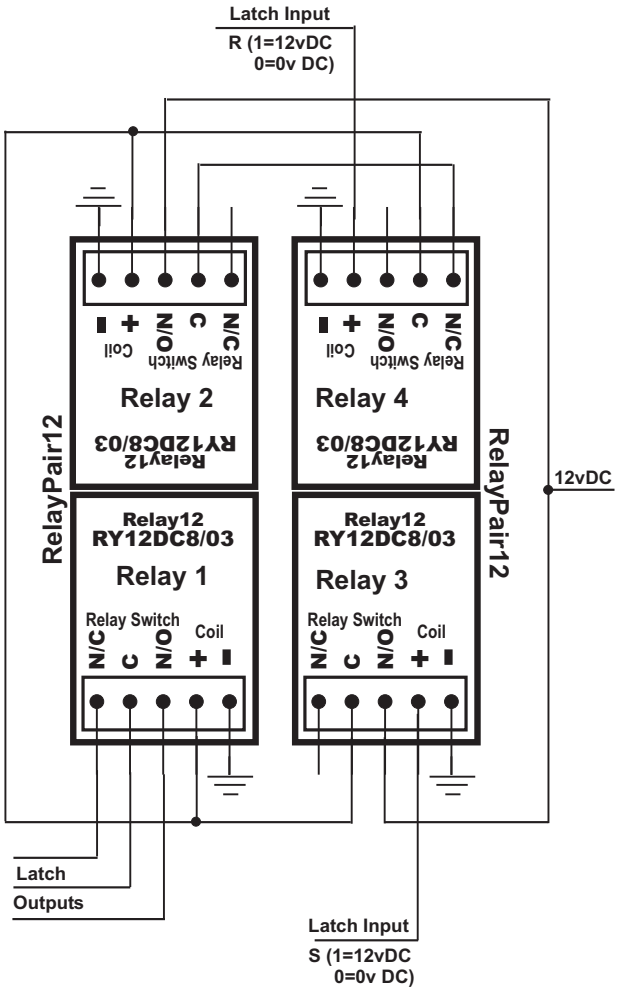
Inputs		Outputs	
R	S	N/O	N/C
0	0	p	p
1	0	0	1
0	1	1	0
1	1	1	0

p = Previous value. Assumes C on output connected to 12v DC = 1

Use with other modules note
In some cases relay 3 (for Set or S input) may not be needed if another module's relay (eg on a Dualtimer12) can perform that function - noting that 12v DC can be continuous, not just momentary but must be returned to 0v DC prior to sending R to 12v DC to reset the latch.

Similarly, it may also be possible to delete relay 4 (for Reset or R) if another module's relay can perform the task.

Equivalent Wiring Diagram
Example uses 2 x RelayPair12 modules. Could use 4 x RelayBasic12 modules - but note different terminal arrangement.



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Naturally, example applications are only intended as a general approach to using our modules, or to solving a control problem or other problem. They are not intended as technical advice. Your specific application may be different. It is the users responsibility to use our modules safely, correctly, and appropriately.

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