



## MR22 1 Mini Relay Board 12v DC



The MR22 1 is a miniature relay board with terminals for the Input & Output. The relay is a dual changeover. The relay contacts are rated at 2Amps. Ideal for switching equipment of a different voltage to the circuit voltage.

### Left Terminal T1

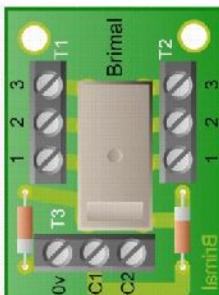
- (1) Common
- (2) Normally Closed NC
- (3) Normally Open NC

### Right Terminal T2

- (1) Common
- (2) Normally Closed NC
- (3) Normally Open NC

### Terminal T3

- 0v = Negative or 0V 12 volts
- C1 = Positive 12 volts



### Specification

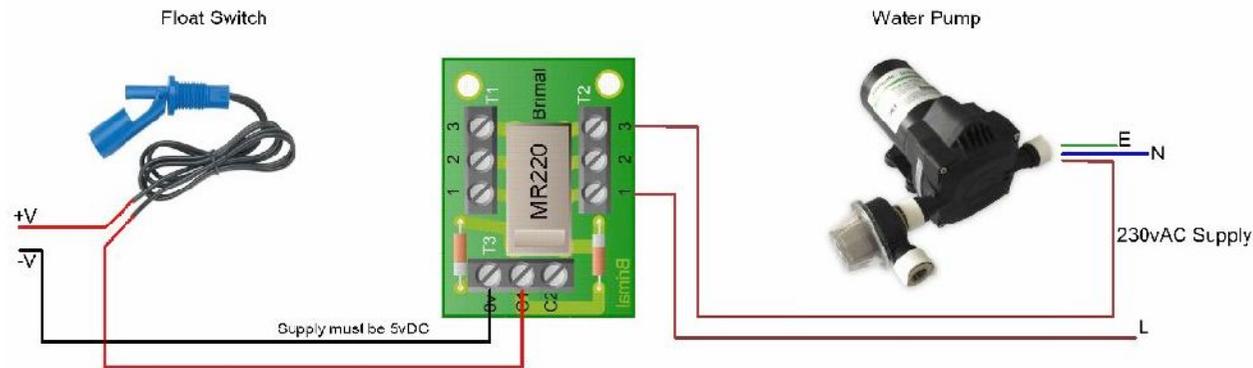
Voltage Switch On range	9.0 to 18.0 vDC
Coil Resistance (Ohms)	450 x (1+/-10%)
Contact Resistance (Ohms)	50 max at 0.1v
Contact Material	AgNi + Au plated
Contact Rating	1A @ 125vAC, 3A @ 30vDC
Max Switching Voltage	120vDC
Operating Time	7 ms max

The Relay Board is available in the following Voltages.

- MR220 5vDC
- MR222 12vDC
- MR223 24vDC

**Brimal Components.**  
Tel: 01429 297277 [brimal.co.uk](http://brimal.co.uk)

Here the Circuit is used to control a water pump and Panel Indicators. The Float switch is used to power the relay, when the float switch is activated the relay switches on, which switches the pump On and changes the Indicators from Red to Green. Can be used for **Water Butts, Ponds, Pools, Bilges, Sumps, Fish Tanks**, in fact anywhere a liquid needs to be pumped. Pumps can be any voltage AC or DC. The Input via the Float switch must be the same as the Relay you have selected 5vdc,12vdc, or 24vdc.



T1 Terminals could be used to switch ON & OFF an indicator back at the control Panel.

### 2) Model Rail Simple Set of Points with Signals on both tracks.

In this set up direction of travel is from left to right, so we need to control signal A and signal B at the same time so they have the correct aspect at all times. The magnet SW933 is glued to the moving arm of the point assembly. The reed switch SW926, SW927 or SW929 is placed within 10mm of the arm when the points are set to straight through, thereby activating the relay. Not too close otherwise it will remain activated when the points change.

