

## MkIII RC RELAY 10A SWITCH



Thank you for purchasing one of our RC Modules, we hope it will give you many years of trouble free service. If you have any problems with your module, please either email or contact our technical support helpline first on the number provided on the last page. We are sorry that it is a mobile number, but we work between three sites and find that our mobiles are far more versatile for our non – electronic communication needs.

Your MkIII 10A Relay Switch has just been made better with improved firmware and an onboard multi-function LED. This LED not only gives you an indication when the Switch is active and 'ON' or 'OFF' it detects and displays any signal errors you may have from your transmitter being switched off, signal error or if your RC Kit is incompatible with standard PWM/PPM protocols. It also gives you an assuring 3 Flash 'Greeting' to let you know all is well and ready to do some serious work.

Before pressing your module into service, please carefully read through the installation drawings, notes and information below. It may well be we are 'trying to tell Grandma How To Suck Eggs' but just sometimes as we find, information is priceless knowledge, and in our case, a knowledge which we have gained over 40 years of Avionic Electronic Engineering Design and Construction experience.

Please follow the wiring protocol as in the drawing. The Conductors/Ports are clearly marked 'Load' and 'Batts' Do not connect them to anything other than what is described . 'Load' is your Lights/Pumps/Motor. 'Batts' is your Battery pack or Power Source.

Although your Module is built with precision and care with full specification, top quality components from a tried and trusted robust design, there are one or two notes which should be observed to prevent premature failure.

Irreparable damage will occur to the internal components of the module if you:

Exceed the Maximum 10A Load

Allow Water Or Fluid To Enter The Module.

Always try to use a Fuse in the 'Batt' (Supply) Line. This will help protect the Module from a possible Short Circuit or Overload. It will also prevent your precious model from going up in smoke if there is such an event. 🙄 Suitable Fuses and Fuse Carriers etc. are available on our Website at [www.mr-rcworld.co.uk](http://www.mr-rcworld.co.uk).

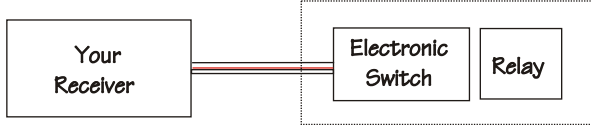
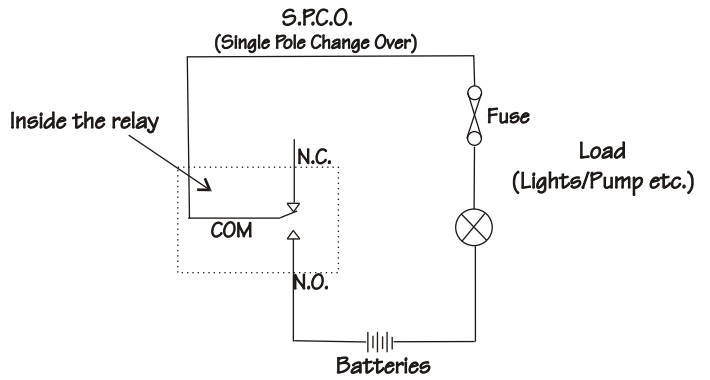
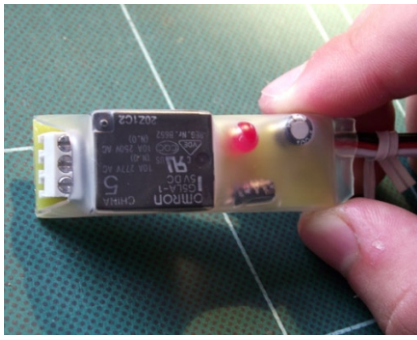
Don't use the old 1¼" Glass Type Fuses and Carriers. The Plastic Carriers MELT !

A major factor in the design and application was to simplify the connectivity between receiver and output connections. In doing so has meant that the module will not lend itself to be driven from anything other than a standard three wire 'Futaba' Style servo protocol connection arrangement. Simplified, irreparable damage will occur to the module if you attempt to drive it from anything than a PWM Receiver circuit which has an ancillary voltage in excess of 11.2v.

Should you need technical support for your purchase, please call +4475 9999 8183 (075 9999 8183) between 9:30am and 5pm Monday to Friday. Email: [rcworld.support@btconnect.com](mailto:rcworld.support@btconnect.com)

Please Kindly Note...

To maintain our multiple order carriage discounts to you, if your order was for more than one module of the same kind, we will only have sent you one set of documentation. If you need more copies, please contact us to where we will send you printable .pdf's or you can download a copy from our website, [www.mr-rcworld.co.uk](http://www.mr-rcworld.co.uk).



COM = Common

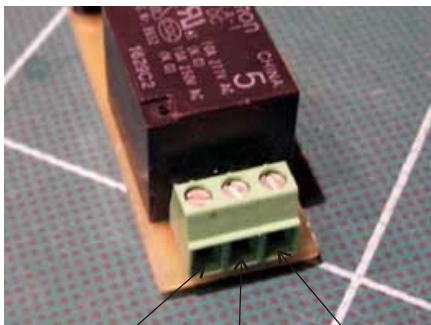
N.C. = Normally Closed.  
(When the Relay is not energised, the Common is connected.)

N.O. = Normally Open  
(When the Relay is not energised the Common is NOT connected.)

**\*\*\*\*\*IMPORTANT\*\*\*\***

Always fit a Fuse between your batteries and the Load. If there is a wiring short circuit or a defect, there is normally enough current in your batteries to set fire to your precious Model.

Fuse Carriers, Fuses, Resistors, Diodes and Suppression Capacitors can be purchased from our On-Line Store at [www.mr-rcworld.co.uk](http://www.mr-rcworld.co.uk)



Normally Open Contact  
Common Contact  
Normally Closed Contact

Rev No		<b>MR RC-WORLD</b>
OCT 2011		
RC Electronic Switch		
10A/16A Relay Version		
Solderless Connections		
Eng.		
Scale 1:1	Drawing No 1 of 2	

COM = THE CONNECTION WHICH IS 'COMMON' TO BOTH TERMINALS

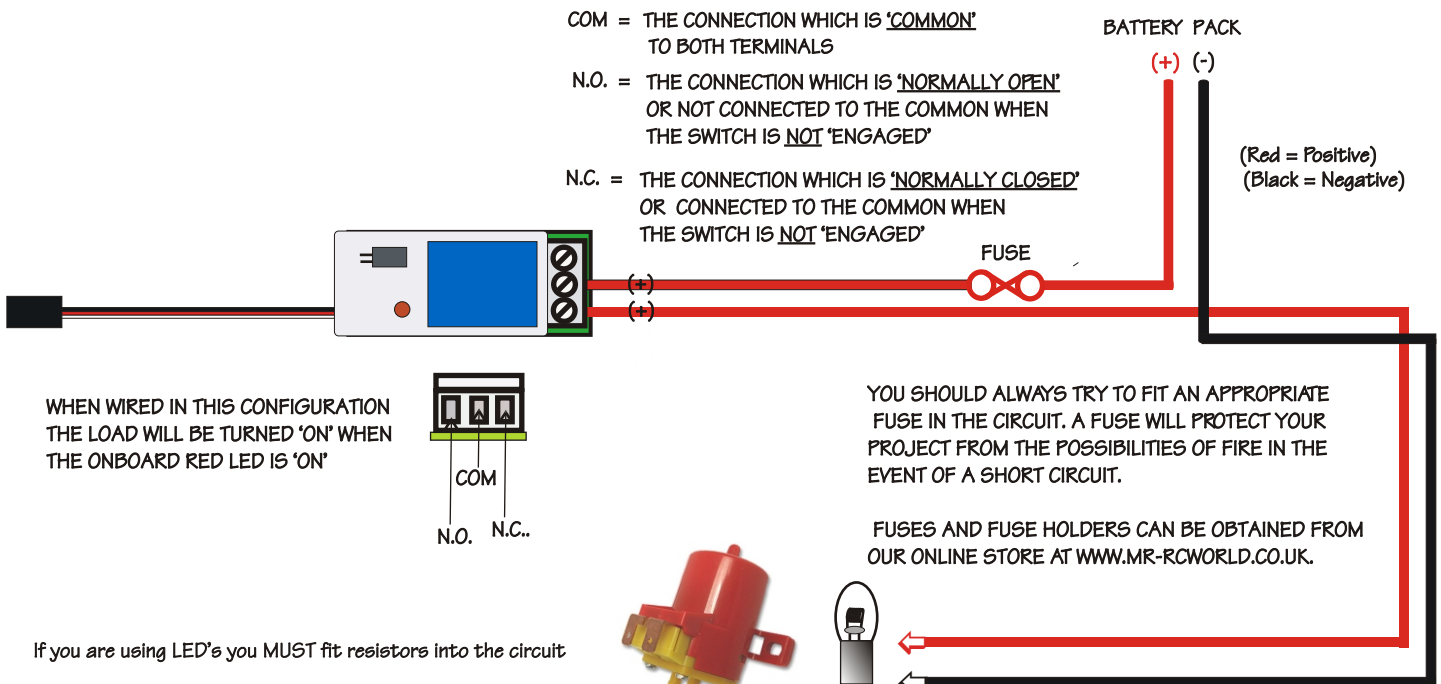
N.O. = THE CONNECTION WHICH IS 'NORMALLY OPEN' OR NOT CONNECTED TO THE COMMON WHEN THE SWITCH IS NOT 'ENGAGED'

N.C. = THE CONNECTION WHICH IS 'NORMALLY CLOSED' OR CONNECTED TO THE COMMON WHEN THE SWITCH IS NOT 'ENGAGED'

BATTERY PACK

(+) (-)

(Red = Positive)  
(Black = Negative)



WHEN WIRED IN THIS CONFIGURATION THE LOAD WILL BE TURNED 'ON' WHEN THE ONBOARD RED LED IS 'ON'

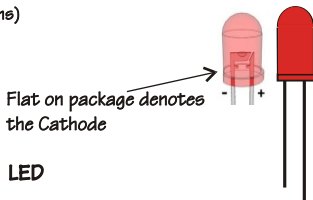


YOU SHOULD ALWAYS TRY TO FIT AN APPROPRIATE FUSE IN THE CIRCUIT. A FUSE WILL PROTECT YOUR PROJECT FROM THE POSSIBILITIES OF FIRE IN THE EVENT OF A SHORT CIRCUIT.

FUSES AND FUSE HOLDERS CAN BE OBTAINED FROM OUR ONLINE STORE AT [WWW.MR-RCWORLD.CO.UK](http://WWW.MR-RCWORLD.CO.UK).

If you are using LED's you MUST fit resistors into the circuit

Battery Voltage	Resistor (Ohms)
5.0V	150
6.0V	200
9.0V	360
12.0V	510



Short Leg is the Cathode.  
Cathode is connected to the Negative side of the batteries

Rev No		<b>MR RC WORLD</b>
OCT 2011		
RC BS/1 10A BOAT SWITCH		
BASIC WIRING DIAGRAM		
Scale 1:1	Drawing No 2 of 2	