

Engineers note pad - Ultra Universal Relay

The relay has the following trigger options

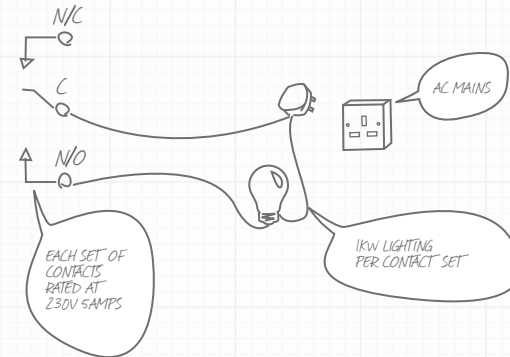
- 1) With the control link in place - activation by supply of 9-30V AC or DC
- 2) Permanent supply to input - Control Link replaced with a switch
- 3) With link out activation from LOW current source:
 - a) Application of a HIGH signal to the HI terminal
 - b) Application of a LOW signal to the LO terminal

Both the LOW current options are referenced to 0V and a permanent supply to the input is required

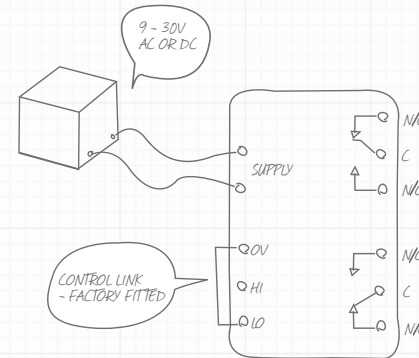
- 4) It is also possible to make the relay latch on after activation, thus it can be used as an event recorder where the relay energises and remains so until the supply is opened

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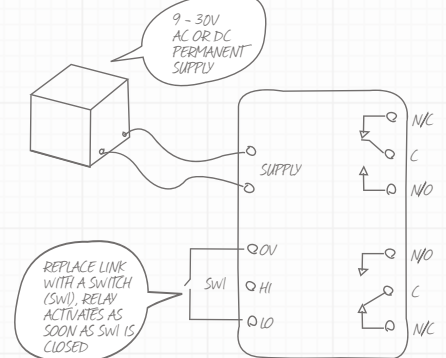
TYPICAL USE - SWITCHING FLOOD LIGHTS ON



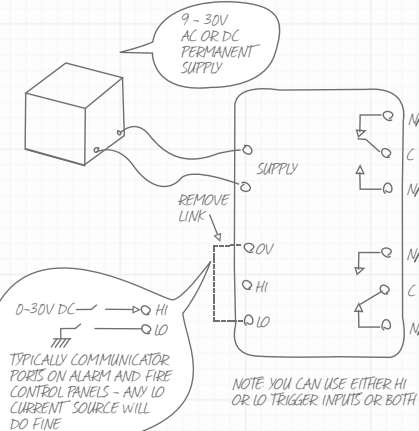
1. RELAY ACTIVATED BY SUPPLY



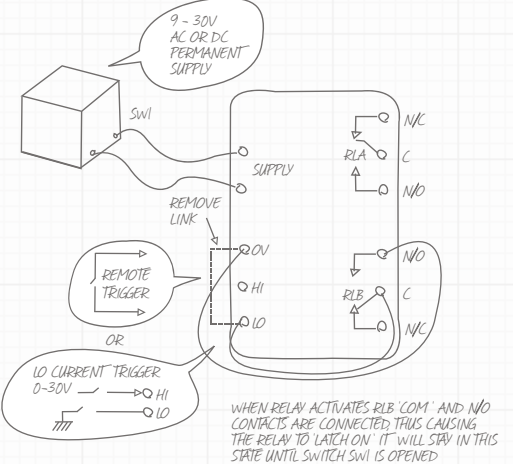
2. CONTROL LINK ACTIVATION



3. LOW CURRENT SOURCE TRIGGERING



4. LATCHING OPERATION



How does a relay work? And what is it?
It's an electrically operated switch

When the coil is connected to a supply (typically 12-24 volts DC) this creates a magnetic field which 'pulls down' the lever which in turn pushes the centre contact 'C' from the normally closed contact 'NC' to the normally open contact 'NO'.

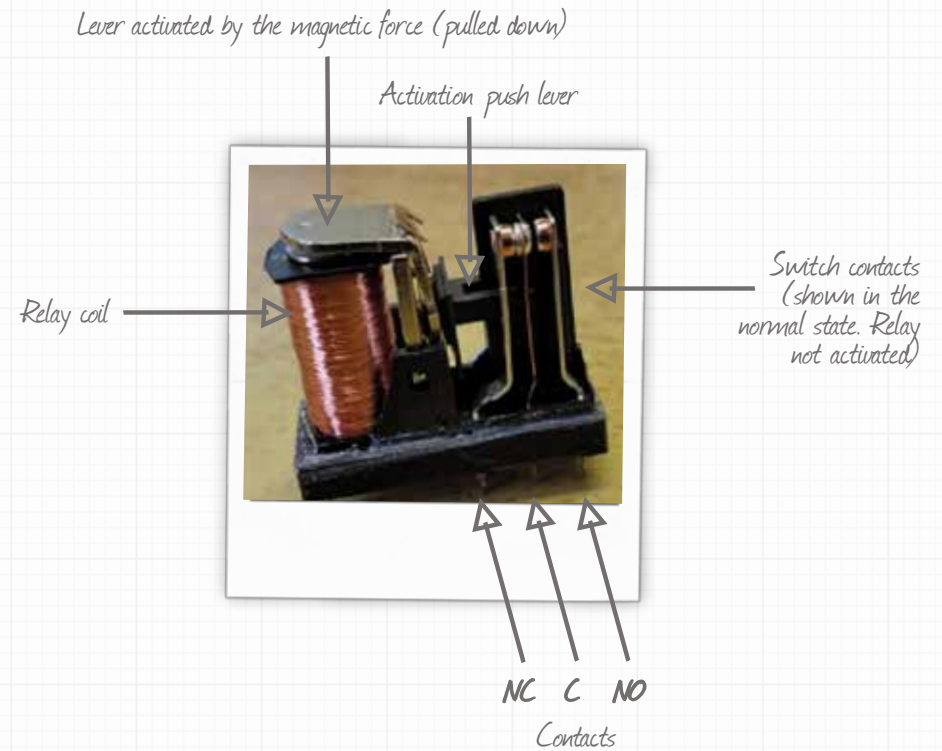
If the switch contacts are not connected to anything in the relay they are 'clean'

For simplicity they are sometimes shown on a wiring diagram as this: -

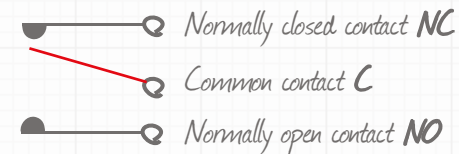
Example 1 (relay not in use)

Example 2 (relay active)

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Example 1 (relay not in use)



Example 2 (relay active)

