

# UNIVERSAL RELAY MODULE



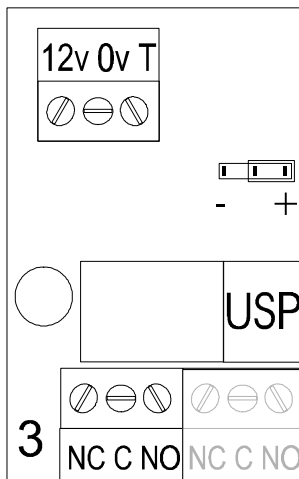
## INSTALLATION INSTRUCTIONS

This relay module provides the functionality to switch on application of power to the relay coil, or by application of a low current 'trigger' voltage (of either polarity) with the supply permanently connected.

**THESE MODULES ARE NOT SUITABLE FOR SWITCHING MAINS VOLTAGES**

There are two basic versions of this product:

### **SINGLE POLE VERSION (ZA-200):**



Relay coil current: 33mA

Trigger input current: 1 mA

Relay switching capacity:

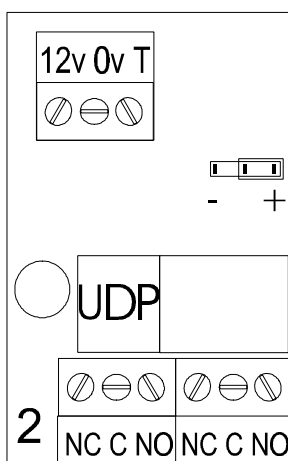
Max 3 Amps, Max 24v DC / 48v AC

**NOT SUITABLE FOR SWITCHING MAINS VOLTAGES**

Switching polarity selection:

The jumper should be positioned to link the central pin to either '-' or '+' as appropriate

### **DOUBLE POLE VERSION (ZA-300):**



Relay coil current: 45 mA

Trigger input current: 1 mA

Relay switching capacity (per pole):

Max 1.25 Amps, Max 24v DC / 48v AC

**NOT SUITABLE FOR SWITCHING MAINS VOLTAGES**

Switching polarity selection:

The jumper should be positioned to link the central pin to either '-' or '+' as appropriate

### **“QUAD” VERSIONS (Single Pole ZA-400; Double Pole ZA-500):**

Both Relay types are available packaged with four relays of either type (but not mixed!) with supply and trigger connections available at a single, common terminal block at the right hand edge.

## LOW LEVEL TRIGGER SIGNALS

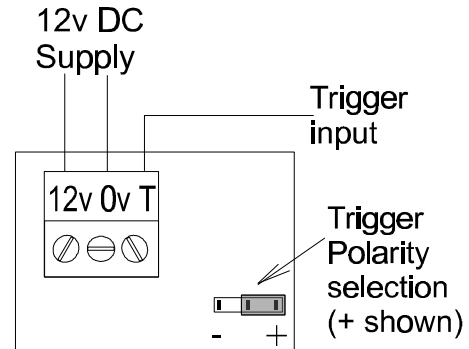
Note that low level signals (eg communicator output pins on an alarm control unit) are sometimes susceptible to interference if extended from their normal housing. Where possible, mount the relay inside the same housing, otherwise consider the use of screened cable.

### WIRING (This is common to both relay types):

#### SINGLE VERSIONS

Note that the 'T' input is used for the trigger input of EITHER polarity – selection being made by suitable location of the jumper as shown.

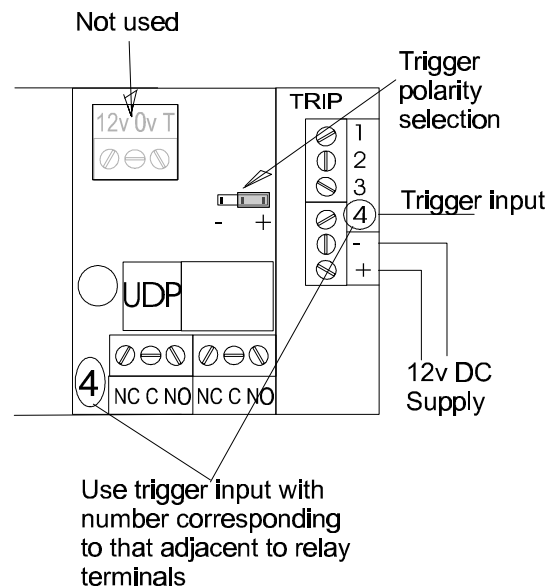
To wire to switch on application of coil voltage, simply link 'T' to either supply terminal and set polarity jumper accordingly.



#### QUAD VERSIONS:

Note that the TRIP input numbers correspond to numbers at the left-hand end of the corresponding relay contact terminal blocks.

Switching polarity is selected *individually* for each relay.



### OTHER WIRING OPTIONS:

#### Gating:

A relay may be wired with both the supply and trigger inputs fed from switched sources, so that BOTH must be triggered before the relay will switch.

#### Self-latching:

A double pole relay may be wired with one pole switching back onto the trigger input to keep the relay latched after original trigger has been removed – eg from a pulse. To clear the latch, remove the latch connection or power by a switch or other suitable means.

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