



## **AUX 2/TR Loop Relay Card**

The AUX2/TR is a compact low current, semiconductor driven relay card that will take many inputs, the relay can be energised using a NO trigger, NC trigger, +VE applied, -VE applied. The AUX2/TR is supplied with a double pole relay of either 1 or 5Amps. (To be specified when ordering)

### **DIMENSIONS**

PCB Only 90mm x 34mm.

### **CONSTRUCTION**

PCB Type Single sided PCB.

Connections Screw terminals

Mounting Method Fixing Tape or 4 x corner pillar mountings.

*(Pillars not supplied)*

### **TECHNICAL SPECIFICATION**

Input Voltage	12V DC
Maximum Operating Current	40mA Typical
Minimum Current	11mA Typical
Relay Control on Board	YES

### **ADVANCED FEATURES**

Normally Open Trigger

Normally Closed Trigger

Positive Applied Trigger

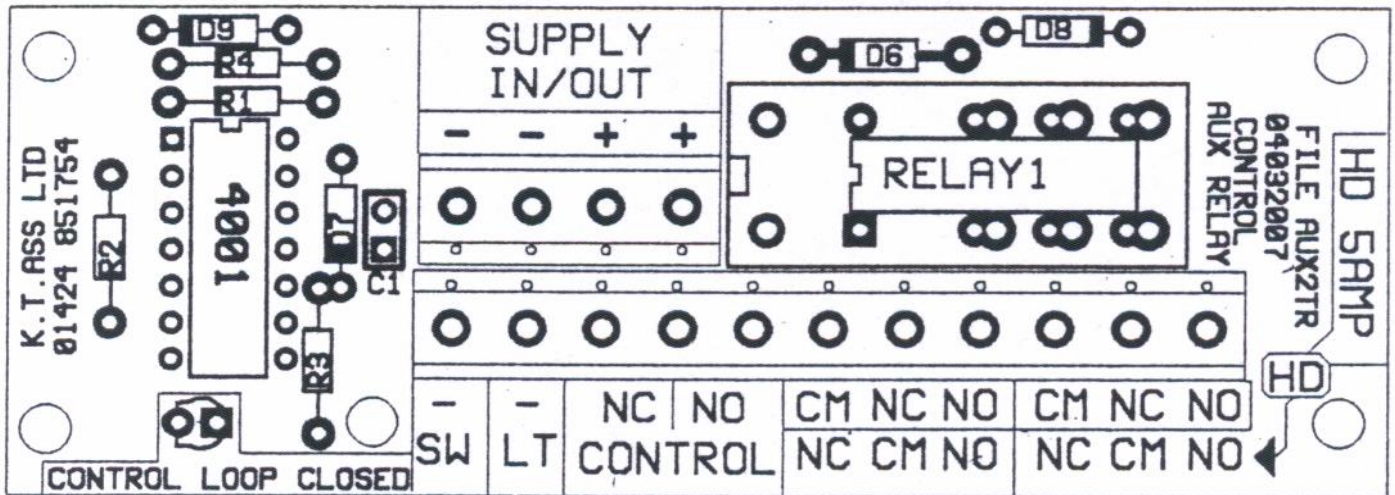
Negative Applied Trigger

Two sets of clean relay contacts.

LED Indication for loop closed.

# PCB Layout And Termination Information

## 12V DC Input



### Terminals from left to right.

**SW-** Output – This output sends a negative when the relay is activated via the control loops (NC/NO Control). \* See note below

**LT-** This is a negative input for if you require a lamp test if you have an LED connected to SW-.

**NC/NO Control** – These are your loop inputs, link out NC, on removal the relay will energise.

**NO trigger**, link out The NC terminals then apply a closed circuit to the Centre pin and NO to energise the relay.

+ **Applied.** The trigger can also be set to work with a positive applied by fitting a 10K resistor across the NC terminals and then applying a pos trigger to the terminal marked NC, the NO terminal is not used in this situation.

- **Applied.** The inputs can also trigger the relay with negative trigger by linking out the NC and applying a hard negative to the terminal marked NO to toggle the relay

\*If connecting a LED to the SW- you will require a suitable series resistor such as 680R to prevent damage to the LED.

**Relay Connections.** There are two sets of clean relay contacts marked as Common (CM) Normally Open (NO) and Normally Closed (NC), these contacts are rated at either 1 or 5 amps depending on the relay fitted, if the relay is not filling the area up to the supply in terminals then the 1 A relay is fitted and the legend nearest the terminals should be used. If the relay fills all the space up to the supply terminals then the 5A relay is fitted and the legend nearest the edge of the board should be used.

## OPTIONS AVAILABLE

Choice of relays 1 or 5A

