KT Assemblies Ltd

Delay Start Module

The Delay Start Module is a small compact PCB that on removal of the NC loop will start an adjustable delay time, at the end of this delay a 1A relay will energise a set of contacts. In this mode the relay will only de-energise when the NC loop has been restored. The timer is software driven and is available in 1-8 5-40 10-80 seconds. The timer can also be triggered from a -VE input, or by leaving the loop open and applying power to the PCB.
The jumper J5 enables an auto reset mode, that will automatically de-energise the relay when a time equal to the original delay has expired.
Other delay times may also be available upon request.

DIMENSIONS

PCB Only 65mm x 48mm.
Note Sizes are approximate only

CONSTRUCTION

PCB Type Single sided PCB.
Connections Screw terminals
Mounting Method Fixing Tape or 4 x corner pillar mountings.
(Pillars not supplied)

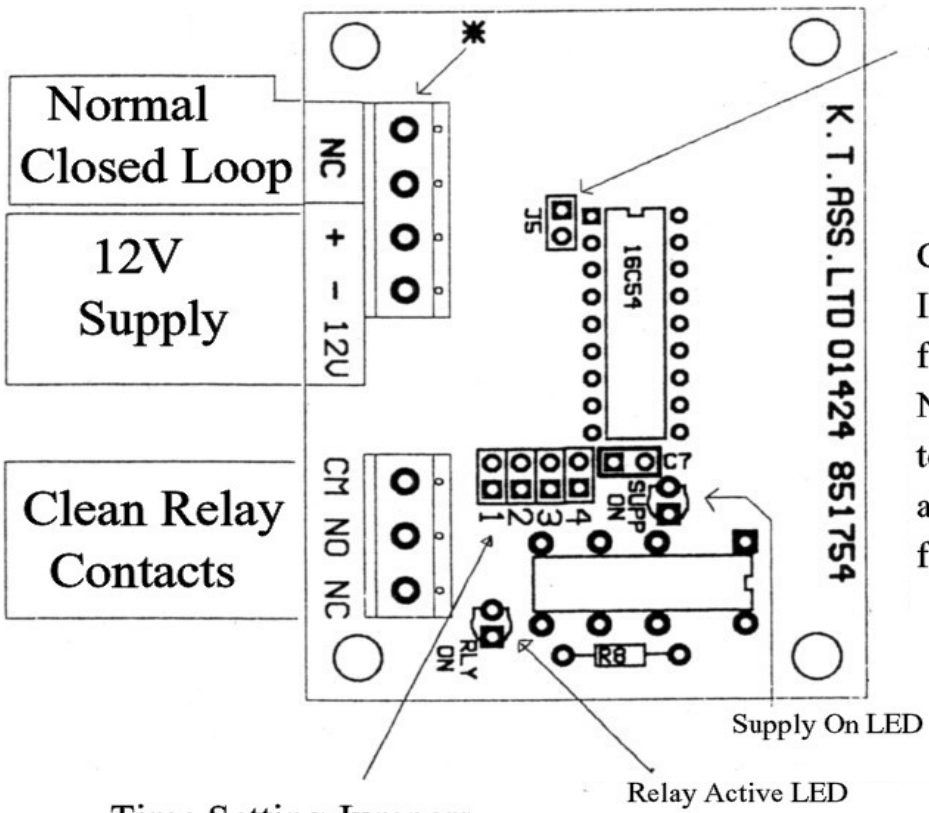
TECHNICAL SPECIFICATION

Input Voltage	12V DC
Maximum Operating Current	40mA Typical
Minimum Current	13mA Typical
Relay Control on Board	YES 1A Max

ADVANCED FEATURES

N/C Loop to start
One sets of clean relay contacts.
LED Indication for alarm condition.
LED Indication for supply healthy.
Selectable auto reset mode.

PCB Layout And Termination Information



Change NC to NO
If a NO start is required fit a 4k7 Resistor to the NC pair and apply a Neg to the terminal marked with a * This can work both flip flop and timer modes

Time Setting Jumpers

SECS	1	2	3
5	OFF	OFF	OFF
10	ON	OFF	OFF
15	OFF	ON	OFF
20	ON	ON	OFF
25	OFF	OFF	ON
30	ON	OFF	ON
35	OFF	ON	ON
40	ON	ON	ON

JUMPER 4 IS A TIME DOUBLER
OFF, NORMAL
ON, ALL TIMES ARE IN 10 SECS STEPS

Delay Start Module

The Delay Start Module when acctivated will start a timer delaying the relay from energising untill the set time has elapsed, once the time has elapsed then the relay will only reset when the NO loop has been restored.

If the J5 jumper is fitted the the module can be used in the auto reset mode, in this mode after the delay has elapsed the relay remains energised for a time equal to the first delay and then would de-energise automatically.

Picture Of The Delay start Module

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