

ASYMMETRICAL TIMER RELAY



Model- T5F

	Technical Data
Input supply voltage	24v - 230v AC/D0
Functions	Five timer function
Operating mode	Memory, Non-memory
Countdown display	Seven segment LEE
LED Indications	Relay status, Function setting
Time setting range	1 sec [min] - 10 days [max
Relay continuous current	Elec-Mech, SPDT, 10A@230vA0
Relay contacts	1000000 Operation
Ext. control input	Rese
Safety features	Supervisory Circuits, Thermal of
Terminals	4mm Sq solid
Enclosure protection	IP20 / DIN EN60529
Size	45x75x105mn
Installation style	Din rail mountable
Colour	Light grey
Weight	Approx 225gn
Warranty	One yea

Model:

CTL input CTL input Function switch Display T-ON switch T-ON switch For the function Strep from the for the form of the fo Din rail mountable Asymmetrical timer relay, Five different functions with memory and non-memory mode. Programmable time range from one second to ten days. Designed for time based switching application. Capable of drive a 10 Amps / 230v AC load.

- > Microcontroller based programmable switching device
- > Seven segment display for time setting, countdown read
- > Integrated safety supervisory circuit and temperature sensor.

Application ON delay switch OFF delay switch ON-OFF delay switch Flasher beginning with ON delay switch Flasher beginning with OFF delay switch Watch dog timer with external reset input.

Accessories(optional) DS50, LD45

Input(v) Input supply voltage range from 24v to 230v AC/DC.

CTL Input The CTL input voltage range from 24volt to 230volt AC or DC. Supply voltage to CTL input will reset the countdown to set value. Disconnecting supply voltage to CTL input will start countdown. Seven segment led display blink every few seconds once indicate CTL input is ON.

Function switch Function knob is used to select the function. Functions name with bar above is memory mode functions. Other are non memory mode functions.

Time range switch Time range switch is use to select ON or OFF delay time range from 1 seconds to 10 days.

T-ON switch T-ON switch is use to select ON delay time. Example: Tondelay = Time range x T-ON = 1h x 0.5 = 30min { See front panel }

T-OFF switch T-OFF switch is use to select OFF delay time. Example: Toffdelay = Time range x T-OFF = 1h x 1.0 = 60min { See front panel }

Output Electromechanical relay SPDT. Output capable to drive 10amps load current (10A/230vAC).

Display Four digit seven segment LED display. It display the count down in seconds (or) minutes (or) hours. Change in switch setting reflect on the display.

LED indicator

F1 - blink & F2- OFF	ND function selected
F1 - OFF & F2 - blink	FD function selected
F1 - ON & F2 - ON	NFD function selected
F1, F2 blinks simultaniously	FBN function selected
F1, F2 blinks sequentially	FBF function selected
Relay - ON	Relay active, Output ON



Count indicator

Count led blink every 5 seconds	Count down in hours	
Count led blink every second	Count down in minutes	
Display '0' and count led blink	ND,FD,NFD countdown end	
Seven segment display blink	CTL input ON	
Display 'set' every 15 seconds	Set value changed	
Display 'Er 1'	Device temperature high	

Functions

ND(on-delay) The relay output will be initially in switch-off position and then switch-on after an adjustable time **Toff delay**.



ND (on-delay) In memory mode **Toff delay** count continue when the power fail and resume. It will not get reset.



FD(off-delay) The relay output will be initially in switch-on position and then switch-off after an adjustable time **Ton delay**.



FD (off-delay) In memory mode Ton delay count continue when the power fail and resume. It will not get reset.



NFD(on-off-delay) The relay output will be initially in switch-off position and then switch-on after an adjustable time **Toff delay**. And stay switch-on for an adjustable time **Ton delay**, and then switch-off.



NFD (on-off-delay) In memory mode **Ton delay** / **Toff delay** count continue when the power fail and resume. It will not get reset.



FBN (flasher beginning with on-delay) The relay output will be initially in switched-off position and then switch-on after an adjustable time **Toff delay** and stays switch-on for an adjustable time **Ton delay** and then switch-off. This loop repeats until the device is powered off.





Wiring diagram



FBN (flasher beginning with on-delay) In memory mode **Ton delay / Toff delay** count continue when the power fail and resume. It will not get reset.



FBN (flasher beginning with on-delay) In memory mode **Ton delay / Toff delay** count continue when the power fail and resume. It will not get reset.



FBF (flasher beginning with off-delay) The relay output will be initially in switched-off position and then switch-on after an adjustable time **Toff delay** and stays switch-on for an adjustable time **Ton delay** and then switch-off. This loop repeats until the device is powered off.



Tf=Toff delay Tn=Ton delay

Ex-3

24v - 230v AC/DC CTL Reset CTL WEM F2 F1 RELAY FBF / V / FBF FDC / / / FBF FDC / / FDC / FDC

Kudil-ASM-0517



Safety Precautions

Avoid using this device in high temperature environment etc. Do not place objects on top of the device. Unplug the device from the main before cleaning. Do not use liquid cleaner. This device is recommended for indoor use only or with weather proof enclosure.

Service Information

Please mail us to info@kudiltech.com , Clearly mention the problem and purchased date. KudilTech will contact you.

Fuse Replacement

If the fuse blows, there will be no output. The following instructions are for use by qualified personnel only. The fuse is located on the top panel. Replace only with a fuse of correct current rating.

One-Year Warranty

KudilTech warranty to the original purchaser that its product and parts, will be free from defects in workmanship and materials for a period of one year from date of purchase. This warranty does not apply of misuse or abuse of the product, unauthorized repairs. This product must be registered by completing registration at within 15 days of purchase.