

# 813 Series

# **Multifunction Timer**

- 8 Modes of Operation
- LCD 0.3" Display
- **Multi-Range Timing**
- **Crystal Oscillator**
- **Pushbutton Presetting**



The 813 Timer is a multifunction control available in three different configurations. The basic control is the M,F or G mounting with one of four modes of operation slide switch selectable: Delay on Make, Single Shot, Delay on Break, and Repeat Cycle are standard. Normal and inverse relay operation is also slide switch selectable.

The 813AX model contains an instantaneous SPDT output and a delay on make SPDT output relay. Model A2 offers two SPDT delay on make outputs.

All three models offer time ranges from 001 to 999 or 00.1 to 99.9 in seconds, minutes or hours. Exceptional accuracy is achieved with a 4.19MHz crystal controlled time base. Displays are liquid crystal (LCD) 0.3" high complete with relay status indicator. Input power can be 12VDC to 240VAC in a variety of dual voltage combinations. Mounting is 48 x 48mm front panel or Din rail. Connections are 8 or 11 pin plug-in socket or screw terminals for the Din rail mounted unit.

M,F & G 813HV . . . . . . . . . . . . 24VAC/DC, 110/220/240VAC ± 15%,

50/60 Hz

#### **SPECIFICATIONS:**

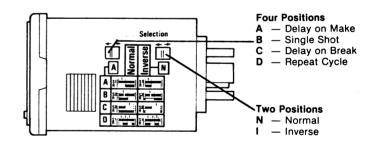
M F 8 0 0401 V	30/60 FIZ	
M,F & G 813LV	12VDC, 24/48VAC/DC ± 15%, 50/60Hz	
AX & A2 models		
	220/240VAC ± 15%, 50/60	Hz
Maximum Power Consumption	· ·	
813		48VDC: 1W
813AX & A2	.220VAC: 10VA	48VDC: 2W
Output		
813	.SPDT Relay	
	.SPDT Relay — Delay on Make	
	SPDT Relay - Instantane	
813A2		
Contact Material	. An Cdo	···ano
Maximum Loading		5A DC
Maximum Switching Voltage		125VDC
Maximum Power Rating		150W DC
Electrical Life of Relay		
Mechanical Life of Relay 5 × 10 <sup>7</sup> operations		
Maximum Repetition Rate 600 operations/hour at 1250VA		
maximum reportion riate	resistive	JO V A
Time Ranges		OO Min
	00.1 to 999 Hrs.	33 WIIII.,
Time Base		N DDM
Repeat Accuracy		O FFIVI
		ina
<b>Reset Time</b>		
	IEC 255.5/NFC 45202	U
Dielectric Strength		- 4-
Dielectric Strength	. 2000 VAC @ 50H2 for 1 Hill VDE 0435	n. to
Operating Town		0.4
Operating Temp.	. + 14 F to + 140 F (- 10	C to + 60°C)
Humidity		
Enclosure Material		
Destantian Olana	UL94 grade VO	.===
Protection Class	. Enclosure IP50, Terminals	IP20

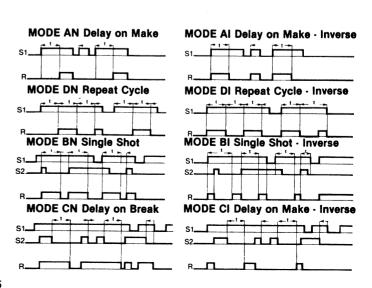
### **MODES OF OPERATION**

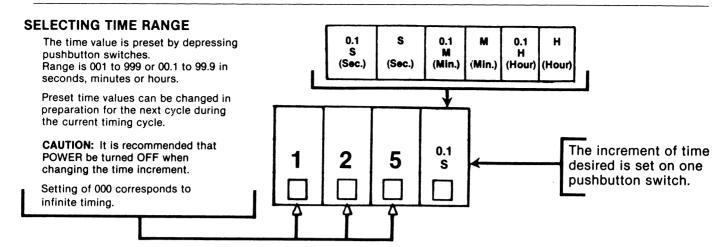
When input power is applied, the LCD indicates the time value selected. The right hand push button selector switch indicates the time increment. Time unit symbols are S = seconds, M = minutes and H = hours. Each of the three timing increments are selectable in Units (001 to 999) or tenths (00.1 to 99.9). The state of the relay is also displayed with standard NO and NC relay symbols.

#### 813HV & LV Models

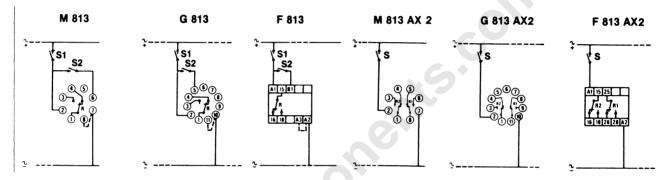
Eight functions can be programmed on the side of the timer by two slide switches. The "mode of operation" selected is displayed in the window below the Four position switch. The "Normal or Inverse" operation of the output relay is selected on the Two position slide switch. The selection or changing of a function must be done when the input power is OFF.







#### **WIRING DIAGRAM**



Note: Add jumper across 7 & 8, 10 & 11 or A2 & A3 when using 24VDC input power or 12VDC in the LV model.

Note: The contact of the initiate command S2 should be isolated from all other circuits.

## **ALSO AVAILABLE**

813 AX2 Series — DPDT delay on make version or instantaneous SPDT and delay on make SPDT version are selectable by a slide switch in the 813 AX2 Series.

813 MT Series — SPDT delay on make version with memory backup in case of power supply failure. 240 hours of memory protection.

#### ORDERING INFORMATION

