

GT3D-8 Multi-Function Timers (Digital Setting Type)

Operating Instructions

TYPES

Operation Mode	Rated Voltage Code	Time Range	Output	Contact	Input	Type No.	
						With Digital Time Display	Without Digital Time Display
1: ON Delay 1 2: Cycle 3: ON Delay 2 (One-Shot Output)	AF20: 100 to 240V AC (50/60Hz)	0.01 sec to 99.9 hours (For details, See TIME RANGES.)	240V AC/ 24V DC, 5A (resistive load)	Delayed DPDT	Start Reset Gate	GT3D-8AF20	GT3D-8LAF20
	AD12: 12V AC (50/60Hz)/ 12V DC					GT3D-8AD12	GT3D-8LAD12
	AD24: 24V AC (50/60Hz)/ 24V DC					GT3D-8AD24	GT3D-8LAD24

TIME RANGES

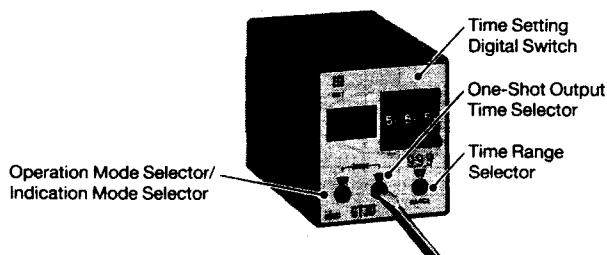
Indication	9.99	99.9	999	99.9	999	99.9
	S	S	S	M	M	H
Time Range	0.01 to 9.99 sec	0.1 to 99.9 sec	1 to 999 sec	0.1 to 99.9 min	1 to 999 min	0.1 to 99.9 hours

ONE-SHOT OUTPUT TIME

Indication	A	B	C	D	E	F
Time	0.1 sec	0.5 sec	1 sec	5 sec	10 sec	50 sec

INDICATION MODE

1 2 3	Timing Down
1 2 3	Timing Up



• Switch Setting

- (1) The switches should be securely turned using a flat screwdriver, 4 mm wide maximum. Note that incomplete setting may cause malfunction. The switches, which do not turn infinitely, should not be turned beyond the limits.
- (2) Since changing the setting during timer operation may cause malfunction, power should be turned off before changing the setting.

• Inputs

To avoid electric shock, do not touch the input signal terminal during power voltage application.

- (1) When connecting the input signal terminals of two or more GT3D timers to the same contact or transistor, the input terminals of the same number should be connected. (Connect Terminals No. 2 in common.)
- (2) In a transistor circuit for controlling input signals, with its primary and secondary power circuits isolated, do not ground the secondary circuit.
- (3) Connect the input signal terminals of the timer to terminal No. 2 only. Never apply voltage to other terminals, otherwise the internal circuit may be damaged.
- (4) Input signal lines must be made as short as possible and installed away from power cables and power lines. Shielded wires or a separate conduit should be used for input wiring.

• GT3D-8

Internal Connection
 • Terminal Arrangement
 • Input Wiring

Operation Mode Selection

Operation Chart.

Delayed DPDT

(Contact Input)

(Transistor Input)

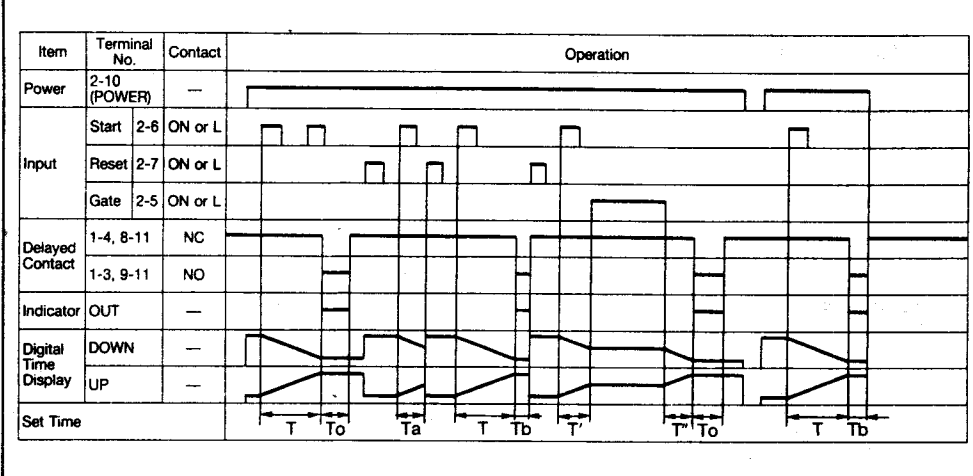
Note:
 T = Set Time
 Ta = Shorter than set time
 Tb = Shorter than one-shot output time
 $T' = T' + T'$
 To = One-shot output time (selected from A, B, C, D, E or F)

ON Delay 1

Timing Down

Timing Up

Power is applied to timer at all times. Set timer for desired delay, initiate start input. Contacts transfer after preset time has elapsed. Contacts transfer back to original position after one-shot output time has elapsed. Timer is reset by initiation of reset input or removal of power.

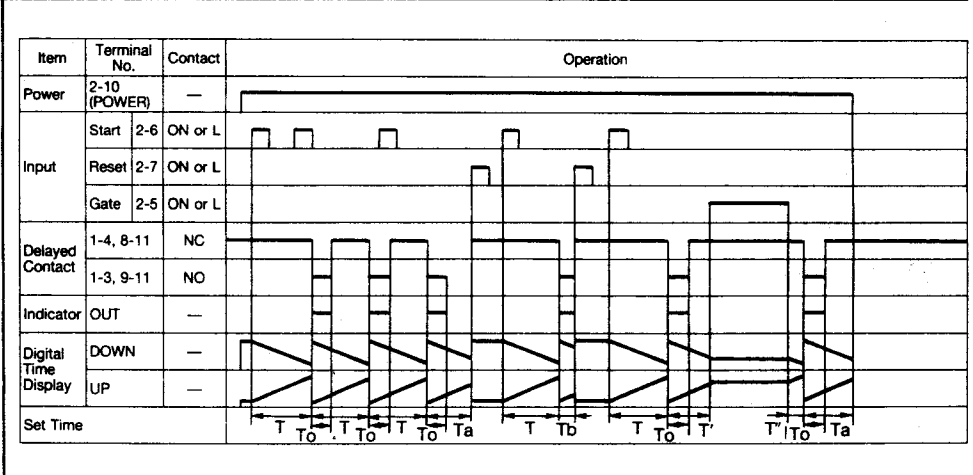


Cycle

Timing Down

Timing Up

Power is applied to timer at all times. Set timer for desired delay, initiate start input. Contacts transfer after preset time has elapsed. Contacts transfer back to original position after one-shot output time has elapsed. Contacts transfer again after preset time elapses a second time. Timer is reset by initiation of reset input or removal of power.



ON Delay 2

Timing Down

Timing Up

Power is applied to timer at all times. Set timer for desired delay, initiate start input. Contacts transfer after preset time has elapsed. After one-shot output time (with start input still present) contacts transfer back to original position. Timer is reset by initiation of reset input or removal of start input or power.

