



INSTALLATION INSTRUCTIONS

TD-8 SERIES

DIGITAL-SET TIME DELAY RELAY

December, 2020 REV C

901-0000-276

DANGER!



Potentially hazardous voltages are present. Electrical shock can cause death or serious injury. Installation should be done by qualified personnel following all National, State & Local Codes.

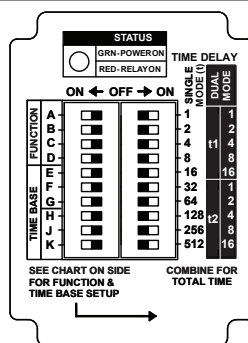


BE SURE TO REMOVE ALL POWER SUPPLYING THIS EQUIPMENT BEFORE CONNECTING OR DISCONNECTING WIRING.

Installation: Mount the appropriate 8 or 11 pin octal socket in a suitable enclosure. Wire the socket per the wiring diagram on the side of the time delay relay. Make sure to match the terminal numbers on the socket to the ones shown on the wiring diagram (the wiring diagram on the relay is the view looking towards the bottom of the relay vs. the top of the socket). Use #12-20 solid or stranded copper or copper-clad aluminum wires with Macromatic sockets and a terminal tightening torque of 7 in-lbs. Plug the time delay relay into the socket, making sure the key on the center post is in the proper orientation before insertion. If the relay must be removed from the socket, do NOT rock the relay back and forth excessively—the center post could be damaged.

The following applies to only the TD-881 Series Multi-Function unit (Figure 1):

Programming is accomplished through the use of two 10-position DIP-switches. Switches A-D of the left-mounted DIP-switch are used to select a function (as a guide, see the descriptions of how each function operates on the reverse side of this sheet). Switches E, F & G of the same DIP-switch are used to select the time base (t) for single mode functions and (t1) for dual mode functions. Switches H, J & K are used to select the time base (t2) for dual mode functions. A convenient chart is on the side of the product to clearly illustrate how to set both the function and time base.



Top

SELECT FUNCTION					SELECT TIME BASE											
SINGLE MODE	FUNCTION				A	B	C	D	SINGLE MODE (J)	DUAL MODE (K)	DUAL MODE (L)	BASE	E	F	G	
	ON DELAY	OFF	OFF	OFF	OFF	OFF	OFF	OFF				0.01S	OFF	OFF	OFF	OFF
	INTERVAL ON	ON	OFF	OFF	OFF	OFF	OFF	OFF				0.1 S	ON	OFF	OFF	OFF
	OFF DELAY	OFF	ON	OFF	OFF	OFF	OFF	OFF				1S	OFF	ON	OFF	OFF
	TR. ON DELAY	ON	ON	OFF	OFF	OFF	OFF	OFF				0.1M	OFF	ON	OFF	OFF
	FLASHER (ON)	OFF	OFF	ON	OFF	OFF	OFF	OFF				1M	ON	ON	OFF	OFF
	FLASHER (OFF)	ON	OFF	ON	OFF	OFF	OFF	OFF				0.1H	ON	ON	ON	OFF
	WATCHDOG	OFF	ON	ON	OFF	OFF	OFF	OFF				1H	OFF	ON	ON	ON
	ONE SHOT F. EDGE	ON	ON	ON	OFF	OFF	OFF	OFF				10H	ON	ON	ON	ON
	SINGLE SHOT	OFF	OFF	OFF	ON	OFF	OFF	OFF				BASE	H	J	K	
DUAL MODE	CYCLE (ON)	ON	OFF	OFF	ON	OFF	OFF	ON	0.01S	OFF	OFF	OFF	OFF			
	CYCLE (OFF)	OFF	ON	OFF	ON	OFF	ON	OFF	0.1 S	ON	OFF	OFF	OFF			
	DELAYED INTERVAL	ON	ON	OFF	ON	OFF	ON	OFF	1S	OFF	ON	OFF	OFF			
	ON/OFF DELAY	OFF	OFF	ON	ON	OFF	ON	OFF	0.1M	ON	ON	OFF	OFF			
	TR. DELAYED INT.	ON	OFF	ON	ON	OFF	ON	OFF	1M	ON	ON	ON	OFF			
	ONE SHOT FLASHER	OFF	ON	ON	ON	ON	ON	OFF	0.1H	ON	ON	ON	ON			
	ON DELAY FLASHER	ON	ON	ON	ON	ON	ON	ON	1H	OFF	ON	ON	ON			
	ON DELAY FLASHER	ON	ON	ON	ON	ON	ON	ON	10H	ON	ON	ON	ON			

NOTE: SWITCHES H, J, & K ARE ONLY USED ON DUAL MODE FUNCTIONS

Side

Figure 1

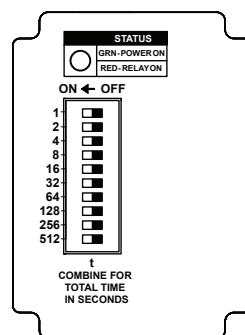
The right-mounted 10-position DIP-switch is used to select the time delay within the time base or bases selected with switches E-K from the first DIP-switch. Each position on the right-mounted DIP-switch is marked with a time increment. The required delay, (t) for single mode functions or (t1) and (t2) for dual mode functions, is selected by moving the switch of each increment to the ON position and adding their corresponding values. NOTE: Dual mode functions can either have the same or different (t1) and (t2) times as well as different time bases. NOTE: Switches H, J, & K are only used on dual mode functions and are not used for single mode functions.

LED Indicator: Green ON--Power, Red ON--Relay Energized

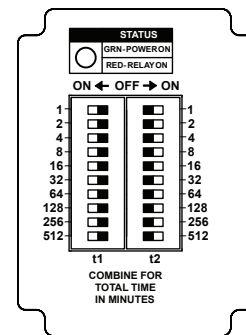
The following applies to all TD-8 Series Single-Function units (Figure 2):

Programming is accomplished through the use of one 10-position DIP-switch (single mode functions) or two 10-position DIP-switches (dual mode functions). Each position on the DIP-switch is marked with a time increment. The required delay, (t) for single mode functions or (t1) and (t2) for dual mode functions, is selected by moving the switch of each increment to the ON position and adding their corresponding values.

As a guide, a description of how each function operates is on the reverse side of this sheet.



Single Mode Functions



Dual Mode Functions

Figure 2

LED Indicator: Green ON--Power, Red ON--Relay Energized

Troubleshooting: If the unit fails to operate properly, check that all connections are correct per the appropriate wiring diagram on the product. Refer to the description of the function operation on the next page. If problems continue, contact Macromatic at 800-238-7474 or e-mail tech-support@macromatic.com for assistance.

Warranty: All Catalog-listed TD-8 Series Time Delay Relays manufactured by Macromatic are warranted to be free from defects in workmanship or material under normal service and use for a period of five (5) years from date of manufacture.



INSTALLATION INSTRUCTIONS

TD-8 SERIES

DIGITAL-SET TIME DELAY RELAY

ON DELAY - Single Mode	TRIGGERED ON DELAY - Single Mode
INTERVAL ON - Single Mode	REPEAT CYCLE (OFF 1ST) - Dual Mode
FLASHER (OFF 1ST) - Single Mode	REPEAT CYCLE (ON 1ST) - Dual Mode
FLASHER (ON 1ST) - Single Mode	DELAYED INTERVAL - Dual Mode
OFF DELAY - Single Mode	TRIGGERED DELAYED INTERVAL - Dual Mode
SINGLE SHOT - Single Mode	ON DELAY/OFF DELAY - Dual Mode
WATCHDOG - Single Mode	ONE (SINGLE) SHOT-FLASHER - Dual Mode
ONE (SINGLE) SHOT (FALLING EDGE) - Single Mode	ON DELAY/FLASHER - Dual Mode