

INSTALLATION INSTRUCTIONS **TD-8 SERIES** DIGITAL-SET TIME DELAY RELAY

TCHDO

Side

901-0000-276

October, 2014 REV B

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. READ INSTRUCTIONS BEFORE INSTALLING OR OPERATING THIS DEVICE. KEEP FOR FUTURE REFERENCE.

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.

STATUS

DUAL

on 🗲 off 🔶 on

CHART ON SI

Тор

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.

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.



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.

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Figure 1



MACROMATIC

INSTALLATION INSTRUCTIONS TD-8 Series

DIGITAL-SET TIME DELAY RELAY

ON DELAY - Single Mode	TRIGGERED ON DELAY- Single Mode
INPUT VOLTAGE OUTPUT t t	INPUT VOLTAGE TRIGGER OUTPUT t <t< th=""></t<>
INTERVAL ON - Single Mode	REPEAT CTCLE (OFF 1ST) - Dual Mode
OUTPUT t t	INPUT VOLTAGE OUTPUT <u>t1 t2 t1 t2 <t1< u=""></t1<></u>
FLASHER (OFF 1ST) - Single Mode	REPEAT CYCLE (ON 1ST) - Dual Mode
INPUT VOLTAGE t t t OUTPUT t t t t	INPUT VOLTAGE OUTPUT t1 t2 t1 t2 VOLTAGE
FLASHER (ON 151) - Single Mode	DELATED IN TERVAL - Dual mode
OUTPUT t t t <	OUTPUT t1 t2 t1 t2
OFF DELAY - Single Mode	TRIGGERED DELAYED INTERVAL - Dual Mode
INPUT VOLTAGE TRIGGER OUTPUT t <t t<="" th=""><th>INPUT VOLTAGE TRIGGER OUTPUT t1 t2 t1 t2</th></t>	INPUT VOLTAGE TRIGGER OUTPUT t1 t2 t1 t2
SINGLE SHOT - Single Mode	ON DELAY/OFF DELAY - Dual Mode
INPUT VOLTAGE TRIGGER OUTPUT t t	INPUT VOLTAGE TRIGGER OUTPUT <u>t1 t2</u>
WATCHDOG - Single Mode	ONE (SINGLE) SHOT-FLASHER - Dual Mode
INPUT VOLTAGE TRIGGER OUTPUT t <t t<="" th=""><th>INPUT VOLTAGE TRIGGER OUTPUT t2 t2</th></t>	INPUT VOLTAGE TRIGGER OUTPUT t2 t2
ONE (SINGLE) SHOT (FALLING EDGE) - Single Mode	ON DELAY/FLASHER - Dual Mode
INPUT VOLTAGE TRIGGER OUTPUT <u>t <t t<="" u=""></t></u>	INPUT VOLTAGE OUTPUT t1 t2 t2 t2 <t2< th=""></t2<>