



INSTALLATION INSTRUCTIONS

TD-881 SERIES

DIGITAL-SET MULTI-FUNCTION TIME DELAY RELAY

February 2011

901-0000-276

Rev A

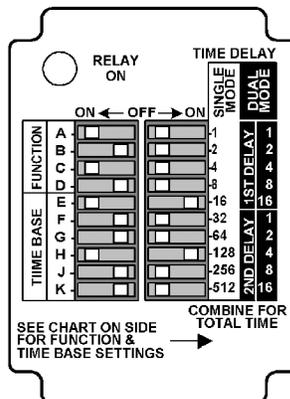
**READ INSTRUCTIONS BEFORE INSTALLING OR OPERATING THIS DEVICE.
KEEP FOR FUTURE REFERENCE.**

Installation: Mount the appropriate octal socket (see table below) in a suitable enclosure. Use one or two #12-22 solid or stranded wire with Macromatic sockets, with a recommended terminal tightening torque of 6-7 in-lbs (maximum of 12 in-lbs). Set the function & time delay as described below. Wire the socket per the appropriate diagram below or use the one on the side of the product. Plug product into socket.

Function	Number of Pins	Macromatic Socket	Wiring Diagram
TD-88121 TD-88122 TD-88124 TD-88126 TD-88128	11	70170-D	
TD-88161 TD-88162 TD-88164 TD-88166 TD-88168	8	70169-D	

Programming Function & Time Delay:

Programming is accomplished through the use of two 10-position DIP-switches (see drawings at right). Switches A-D of the left-mounted DIP-switch are used to select a function (see the descriptions of how each function operates on back of this sheet as a guide). Switches E-K of the same DIP-switch are used to select the time base. A convenient chart is on the side of the product to clearly illustrate how to set both the function & time base.



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

The right-mounted 10-position DIP-switch is used to select the time delay within the time base selected with switches E-K from the first DIP-switch. Each position on the second DIP-switch is marked with a binary time increment. The required delay is selected by moving the switch of each increment to the ON position & adding their corresponding values (see right). Note that dual mode products can either have the same or different ON & OFF times.

LED Indicator: Red ON Steady--Relay Energized; OFF--Relay De-Energized

Troubleshooting: If the unit fails to operate properly, check that all connections are correct per the diagram on the side of the unit. Use the descriptions of how each function operates on back of this sheet as a guide to determine if the unit is operating properly. If problems continue, contact Macromatic at 800-238-7474 for assistance.

Warranty

All products 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.

