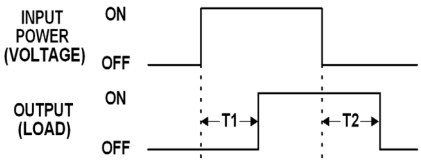
TIME DELAY RELAYS

NON-PROGRAMMABLE PLUG-IN

ON DELAY/TRUE OFF DELAY

- Provides Off Delay function without requiring input voltage during Off time delay
- Duplicates operation of pneumatic Off Delay timers
- Uses industry-standard 8 pin octal socket
- 10A DPDT output contacts
- c UL us LISTED with appropriate socket

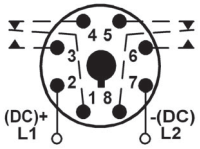
Most electronic time delay relays with an off delay function require input voltage to be applied continuously in order to operate correctly. However, there are many applications where this is not possible--keeping a relay energized for some amount of time after input voltage has been removed. A true off delay product provides this function even when input voltage is removed. It duplicates the operation of the older off delay pneumatic time delay relays.



Operation of On Delay/True Off Delay: Upon application of input voltage, a preset delay begins (T1). At the end of the preset delay, the relay is energized. When the input voltage is removed, the relay contacts remain energized for a second, independently adjustable preset time (T2). At the end of the second preset time, the relay is de-energized. **Voltage must be applied for a minimum of 0.1 second to assure proper operation.** Any application of the input voltage during the time (T2) will keep the relay energized & reset T2. When input voltage is removed, the relay contacts remain energized for the full time (T2). No external trigger switch is required.

ON DELAY/TRUE OFF DELAY *

INPUT VOLTAGE 50/60Hz.	TIMING RANGE	PRODUCT NUMBER *	WIRING/ SOCKETS
120V AC/DC	0.1-10 sec	TR-54622-05	8 PIN OCTAL **70169-D**
	0.6-60 sec	TR-54622-08	
	3-300 sec	TR-54622-12	
	0.1-10 min	TR-54622-22	
	0.3-30 min	TR-54622-15	
24V AC/DC	0.1-10 sec	TR-54628-05	
	0.6-60 sec	TR-54628-08	
	3-300 sec	TR-54628-12	
	0.1-10 min	TR-54628-22	
	0.3-30 min	TR-54628-15	
12V AC/DC	0.1-10 sec	TR-54626-05	
	0.6-60 sec	TR-54626-08	
	3-300 sec	TR-54626-12	
	0.1-10 min	TR-54626-22	
	0.3-30 min	TR-54626-15	
240V AC	0.1-10 sec	TR-54621-05	
	0.6-60 sec	TR-54621-08	
	3-300 sec	TR-54621-12	
	0.1-10 min	TR-54621-22	
	0.3-30 min	TR-54621-15	



INPUT VOLTAGE

DIAGRAM 1

* The ON & OFF time ranges for these products are the same, and are independently adjustable within each range. Contact Macromatic for information on how to order products with different ON & OFF time ranges (minimum quantities apply).

MACROMATIC

800-238-7474

www.macromatic.com

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APPLICATION DATA

Voltage Tolerance:
AC Operation: +10/-15% of nominal at 50/60 Hz.
DC Operation: +10/-15% of nominal.

Load (Burden):
2 VA

Setting Accuracy:
Maximum Setting (Adjustable): +5%, -0%
Minimum Setting (Adjustable): +0%, -50%
Fixed Time Delay: ±2% or 100ms, whichever is greater

Repeat Accuracy (constant voltage and temperature)**:**
±1% or 50ms, whichever is greater

Start-up Time:
(Time from when power is applied until unit is timing)
0.05 Seconds

Temperature:
-28° to 65°C (-18° to 150°F)

Insulation Voltage:
2,000 volts

Mounting:
Uses an 8 pin octal socket (Macromatic Product Number 70169-D). See Macromatic catalog for more information.

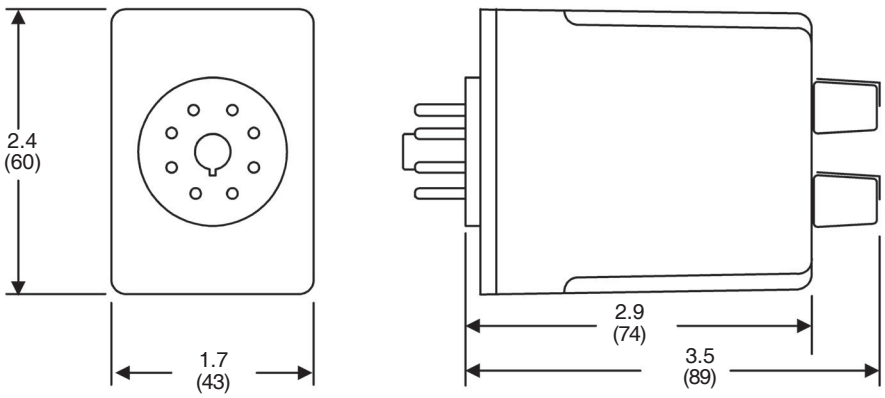
Output Contacts:
DPDT 10A @ 240V AC; 10A @ 28V DC,
1/2 HP @ 240V AC, 1/4HP @ 120V AC
B300 & R300

Life:
Mechanical: 2,000,000 operations
Full Load: 100,000 operations

Approvals:
c US File #E109466
UL LISTED IND. CONT. EQUIP. 50U7 with appropriate socket File #E109466

IMPORTANT: These relays are shipped from the factory in the OFF state. A shock to the relay during shipping or installation may cause it to change to the ON state. It is recommended that input voltage be applied to the product for at least 0.1 second longer than the programmed On Delay time period and removed to cycle the unit to the OFF state prior to use in the application. Please note that it will take as long as the OFF Delay setting to reset the unit once input voltage has been removed.

DIMENSIONS



All Dimensions in Inches (Millimeters)