

MULTI-FUNCTION | MULTI-RANGE

DIGITAL-SET | TAD SERIES



- ◆ Push-button thumbwheels for digital-setting of time delay & selection of function
- ◆ 10 field-selectable functions in one unit
- ◆ 10ms to 9,990 Hours programmable timing range
- ◆ Universal 24-240V AC/DC input voltage
- ◆ LCD display
- ◆ Panel, track or surface mounting
- ◆ 1/16 DIN style case (comes with panel-mounting adapter)
- ◆ 5A SPDT output contacts



Better. By Design.

800.238.7474
WWW.MACROMATIC.COM
SALES@MACROMATIC.COM

MULTI-FUNCTION	INPUT VOLTAGE	CATALOG NUMBER	WIRING/SOCKETS ■
10 FIELD-SELECTABLE FUNCTIONS●	24-240V AC 50/60Hz & 24-240V DC 8 Pin Octal	TAD1U	SEE DIAGRAMS NEXT PAGE

- Functions Include: On Delay (2 Versions), Interval, Flicker [Flasher] (2 Versions), One Shot Out Flicker [Delayed Interval/Pulse], Off Delay, On/Off Delay, Interval Delay [Single Shot] & Integration Time [Accumulative On Delay] See "Definitions of Timing Functions".
- See below for **Sockets & Accessories**.

APPLICATION DATA

Voltage Tolerance:

±10% of rated voltage

Load (Burden):

Less than 2.5 VA

Repeat Accuracy:

±0.01%, ±0.05 seconds (includes variation due to voltage and temperature changes)

Recycle Time:

0.2 seconds maximum

Temperature:

Operating: -10° to 55°C (14° to 131°F)
 Storage: -40° to 85°C (-40° to 185°F)

LCD Display: Shows time remaining in both digit & bar graph form—also shows relay status & time base. In addition, a switch on the bottom of the unit allows choice of timing up or timing down display.

Output Contacts:

5A SPDT Resistive @ 250V AC

Life:

Mechanical: 10,000,000 operations
 Full Load: 100,000 operations

Approvals:



SOCKETS & ACCESSORIES

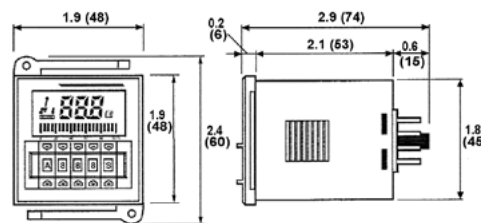
DESCRIPTION	PRODUCT NUMBER
8 Pin Octal Socket	70169-D❖
8 Pin Octal Socket (Back Mounting)	OR08-PC
Panel-Mounting Adaptor	Included

❖ For Surface or Track Mounting—See Sockets & Accessories for additional information



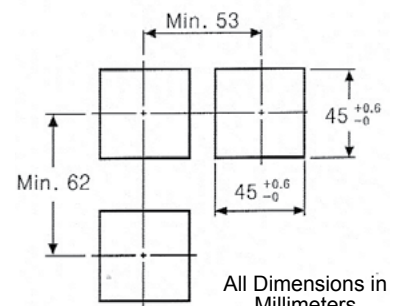
OR08-PC

DIMENSIONS



All Dimensions in Inches (mm)

PANEL CUTOUT



All Dimensions in Millimeters

DEFINITION OF TIMING FUNCTIONS

DIGITAL-SET | TAD SERIES

Functions for TAD1U

Mode	Time chart	Mode	Time chart
A ON Delay (A)	<p>1. Time progresses when START signal is ON. 2. The output will be ON when the setting value is equal to the display value. (Position ③) 3. When the RESET signal is ON, the display value is returned to the initial state. (Position ②) 4. When the setting value is equal to the display value, if START signal is OFF, the output turns off, the display value is held. (Position ②) ※ If START signal is OFF when the output is OFF the display value is returned to initial state (Position ②)</p>	F One-shot Out Flicker	<p>1. Time progresses from initial value to the preset value repeatedly and the output operates as one-shot (0.3 sec), when the START signal is ON. (Position ③) 2. If the RESET signal is ON, it is returned to initial state. (Position ②) ※ When START signal is applied repeatedly, only the initial signal is recognized. (Position ③)</p>
B Interval Delay (A)	<p>1. The output turns ON and time progresses when START signal is ON. 2. The output will be ON when the setting value is equal to the display value. (Position ③) 3. When the RESET signal is ON, the display value is returned to the initial state. (Position ②) ※ If START signal is OFF when the output is OFF the display value is returned to initial state. (Position ③)</p>	H OFF Delay	<p>1. The START signal & the output are ON at the same time. The output will return and the display value is held after the setting time. 2. If the RESET signal is ON, the display value is returned to initial state. ※ If the START signal is applied continuously, the output will be ON but time is not progressed.</p>
C ON Delay (B)	<p>1. Time proceeds when START signal is ON. 2. The output will be ON when the setting value is equal to the display value. (Position ③) 3. When the RESET signal is ON, the display value is returned to the initial state. ※ When start signal is applied repeatedly (Position ③), only the initial signal is recognized. ※ Even if the START signal is not applied, time progresses. (Position ②)</p>	K ON/OFF Delay	<p>1. When the START signal is ON the output is ON the output will be reset and display value is held when setting value is equal to display value. 2. The START signal turns OFF, the output turns ON, the output will be reset and display value is held when setting value is equal to display value. 3. If RESET signal is ON, it is returned to initial state. ※ If START signal is applied repeatedly, output keeps ON but be sure that the time will be initialized.</p>
D Flicker (A)	<p>1. Time progresses repeatedly when the START signal is ON. 2. The output operates from NC to NO, and from NO to NC repeatedly. 3. If RESET signal is ON, it is returned to initial state. (Position ③) ※ If the START signal is OFF, the display value and output is returned to initial state. (Position ③)</p>	L Interval Delay (B)	<p>1. When START signal is ON, the output turns ON and the time progresses at the same time. 2. When the time reaches at the preset value the output will be reset, and the display value is held. 3. If RESET signal is applied, the display value is returned to initial state. ※ When START signal is applied repeatedly, only the initial signal is recognized. (Position ③)</p>
E Flicker (B)	<p>1. Time progresses repeatedly when the START signal is ON. 2. The output operates from NC to NO, and from NO to NC repeatedly. 3. If RESET signal is ON, it is returned to initial state. (Position ③) ※ When START signal is applied repeatedly, only the initial signal is recognized. (Position ③) ※ Even if the START signal is not applied, time progresses. (Position ②)</p>	N Integration Time	<p>1. When START signal is ON, time progresses. 2. If START signal turns off before the display value reaches the setting value, the time (display value) will be held. 3. If RESET signal is ON, it is returned to initial state.</p>

NOTE: Timing is paused when the INHIBIT signal is ON during a timing cycle and resumes when it is OFF.

TAD1U All Functions

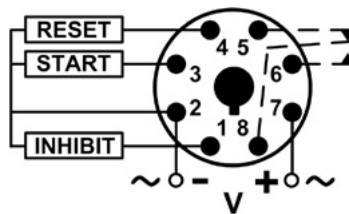


DIAGRAM 171