TIME DELAY RELAYS

PRODUCT SUMMARY

Macromatic offers a wide variety of time delay relays and accessories. Each one has different features and operating characteristics, allowing you to choose the exact product to meet your needs. Our time delay relays are available in either programmable or non-programmable versions. We offer both single or multiple function time delay relays. Choose between SPDT or DPDT relay outputs & solid state outputs for high duty cycle applications. Time delay relays are available as plug-in units for use with industry standard 8 & 11 pin octal sockets. They also come in 2" x 2" encapsulated & 1/16 DIN mounting configurations. Choose between analog or digital-set time delay relays. Refer to the Selection Table on this page for more information.

Product Series		Mounting Configuration	Time Delay Setting & Ranges	Functions	Input Voltages	Output	See Pages
	THR Series Relay Output		Analog-Set 0.1 SEC - 100 HR	Single- Function	12VDC, 24VAC/DC, 120VAC/DC, 240VAC	10A SPDT Relay	43-49
	THS Series Solid State Output	2" x 2" Encapsulated Panel Mounted with One Screw	Analog-Set 0.01 SEC - 100 HR	Single- Function	24-240VAC, 12-48VDC	1A SPNO Solid State	50-53
	THL Series Solid State Inline (Series) Output		Analog-Set 0.01 SEC - 100 HR	Single- Function	240-240VAC & 12-48VDC	1A SPNO Solid State	54-55
A CONTRACT OF CONTRACT	TR-5 Series Standard		Analog-Set 0.05 SEC - 2 HR	Single- Function	12VDC, 24VAC/DC, 120VAC/DC, 240VAC	10A DPDT 10A SPDT Relay	56-59 60-61
	TR-6 Series <i>Time Ranger</i> Programmable		Analog-Set Multi-Range 0.1 SEC - 24 HR	Single- Function	12VAC/DC, 24VAC/DC, 120VAC/DC, 240VAC	10A DPDT Relay	62-65
	TD-8 Series <i>Time Ranger</i> Digital-Set Programmable	Plug-in Utilizing Industry-Standard 8 & 11 Pin Sockets	Digital-Set Multi-Range 0.1 SEC - 1,023 HR	Multi-Function (16) & Single- Function	12VAC/DC, 24VAC/DC, 120VAC/DC, 240VAC	10A DPDT 10A SPDT Relay	66-68
	TD-7 Series <i>Time Ranger</i> Digital-Set Programmable		Digital-Set Multi-Range 0.05 SEC - 999 HR	Multi-Function (10) & Single- Function	12VAC/DC, 24VAC/DC, 120VAC/DC, 240VAC	10A DPDT 10A SPDT Relay	69-71
and the second sec	SS-6 & SS-8 Series Compact		Analog-Set 0.2 - 300 SEC	Single- Function	12VDC, 24VAC/DC, 120VAC	5A SPDT Relay	76
	TAD Series Digital-Set 1/16 DIN	1/16 DIN	Digital-Set Multi-Range 0.01 SEC - 9,990 HR	Multi-Function (10)	24-240VAC & 24-240VDC	5A DPDT Relay	72-73
	TAA Series Analog-Set 1/16 DIN	(48mm²)	Digital-Set Multi-Range 0.05 SEC - 100 HR	Multi-Function (6)2 Versions	100-240VAC & 24-240VDC	5A DPDT Relay	74-75

TIME DELAY RELAYS

TAD SERIES **DIGITAL-SET MULTI-FUNCTION MULTI-RANGE** 1/16 DIN MOUNTING



- 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





800-238-7474 www.macromatic.com sales@macromatic.com

MULTI- FUNCTION	INPUT VOLTAGE	PRODUCT NUMBER	WIRING/ SOCKETS ■
10 FIELD- SELECTABLE FUNCTIONS♦	24-240V AC 50/60Hz & 24-240V DC	TAD1U	SEE DIAGRAMS ON PAGE 73
		8 Pin Octal	(See Below)

- 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 Page 73 for additional details)
- 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: -10° to 55°C (14° to 131°F) LCD Display: Shows time remaining in both digit & bar graph form--also shows relav 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



SOCKETS & ACCESSORIES

PRODUCT NUMBER 70169-D 8 Pin Octal Socket (Back Mounting) SR6P-M08G Included

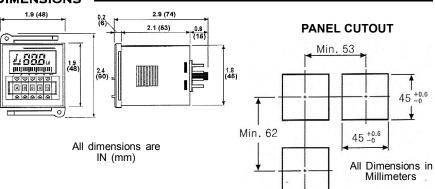


Panel-Mounting Adaptor ■ For Surface or Track Mounting--See Page 80 for additional information

DIMENSIONS

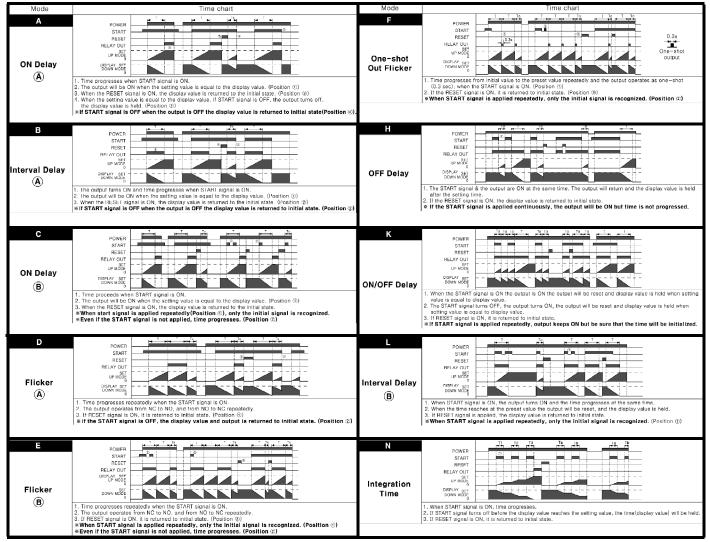
DESCRIPTION

8 Pin Octal Socket



TIME DELAY RELAYS TAD SERIES DIGITAL-SET MULTI-FUNCTION MULTI-RANGE DEFINITION OF TIMING FUNCTIONS

Functions for TAD1U



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

TAD1U All Functions

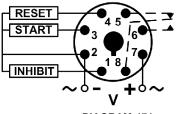


DIAGRAM 171

TIME DELAY RELAYS

TAA SERIES **ANALOG-SET MULTI-FUNCTION MULTI-RANGE** 1/16 DIN MOUNTING



- 6 field-selectable functions in one unit
- Large dial for setting of time delay
- 50ms to 100 Hours programmable timing range
- Universal 100-240V AC/ 24-240V DC input voltage
- Panel, track or surface mounting
- ♦ 1/16 DIN style case (comes) with panel-mounting adapter)
- ♦ 5A DPDT output contacts

((





800-238-7474 www.macromatic.com sales@macromatic.com

MULTI- FUNCTION ◆	INPUT VOLTAGE	PRODUCT NUMBER	WIRING/ SOCKETS ■
Includes Six (6) Functions Built-in (See Page 75 for additional information)	100-240V AC 50/60Hz & 24-240V DC	TAA1U	SEE DIAGRAMS ON PAGE 75 8 Pin Octal (See Below)
Includes Six (6) Func- tions Built-in (See Page 75 for additional informa- tion)	100-240V AC 50/60Hz & 24-240V DC	TAA2U	SEE DIAGRAMS ON PAGE 75 11 Pin Octal (See Below)

See Page 75 for additional details on 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:

-10° to 55°C (14° to 131°F)

SOCKETS & ACCESSORIES

Mechanical: 10,000,000 operations Full Load: 100,000 operations Approvals: File #F170213

Life:

LED Indicators: One red LED

indicates Input Voltage/Timing (flashing) & a second red LED

5A DPDT Resistive @ 250V AC

indicates relay status.

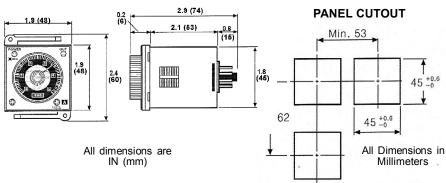
Output Contacts:



PRODUCT DESCRIPTION NUMBER 8 Pin Octal Socket 70169-D 8 Pin Octal Socket (Back Mounting) SR6P-M08G SR6P-M08G 11 Pin Octal Socket 70170-D 11 Pin Octal Socket (Back Mounting) SR6P-M11G Panel-Mounting Adaptor Included SR6P-M11G

■ For Surface or Track Mounting--See Page 80 for additional information

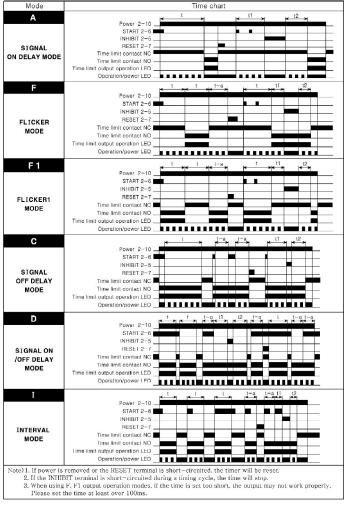
DIMENSIONS



TIME DELAY RELAYS TAA SERIES ANALOG-SET MULTI-FUNCTION MULTI-RANGE DEFINITION OF TIMING FUNCTIONS

Functions for TAA1U t:Setting time, t > t-a, Rt:Return time(Max. 100ms) Mode Mode Time chart Bt А А Power 2-7 Time limit contact NC 1-4 (8-5) POWER ON Time limit contact NO) 1-3 (8-6) SIGNAL DELAY MODE no limit output operation LED Operation/power LED 111 Bt A 1 _t−a F Power 2-7 Time limit contact NC 8-5 0.5sec POWER ON Time limit contact NO 8-6 DELAY 1 MODE FLICKER nslanlaneous contact NC 1-4 MODE (One-shot Instantaneous contact NO 1-3 output) Fime limit output operation I FD Operation/power LED ... F 1 В Power 2-7 Time limit contact NC 8 5 Time limit contact NO 8-6 ELICKER1 POWER ON nstantaneous contact NC 1-4 MODE DELAY 2 MODE nstantaneous contact NO 1 3 Fime limit output operation LED Operation/power LED С t-a , Rt Power 2-7 lime limit contact NC 1-4 (8-5) SIGNAL Time limit contact NO 1-3 (8-6) FLICKER MODE MODE Fime limit output operation LED D F 1 Power 2-7 Time limit contact NC 8-5 Time limit contact NO 8-6 FLICKER 1 Instantaneous contact NC 1-4 MODE Instantaneous contact NO 1-3 Time limit output operation LED Operation/power LED Power 2-7 Time limit contact NC 8-5 INTERVAL Lime limit contact NO 8-6 MODE INTERVAL Instantaneous contact NC 1-4 MODE Instantaneous contact NO 1-3 lime limit output operation LED Operation/power LED *When using P, I⁻¹ output operation modes, if the time is set too short, the output may not work Please set the time at least over 100ms.

Functions for TAA2U



TAA1U Functions A, F

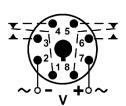


DIAGRAM 134

TAA1U Functions A1, B, F1 & I

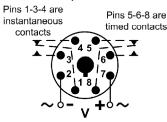


DIAGRAM 182

TAA2U All Functions

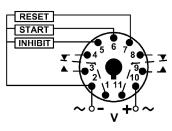


DIAGRAM 183

t=t1+t2, t>t-a

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for macromatic manufacturer:

Other Similar products are found below :

TADIU
THR-3816U
TR-6182U
TR-6312U
70166
SFP120A250
TAA1U
TAA2U
THL-8024U-42
LCP2G100
THR-3856U
TD-78122

TR-50222-08
70170-D
SFP120A100
SS-23122-06
TR-6022U
TR-6052U
TR-6162U
TR-6812U
ISEUR1
ARP120A6R
TR-6132U
TR-6162U
TR-60622
TD-78128
TCP2G100
TE-8812U

70169-D
SS-60228
SS-60228