

# FUJI MINIATURE DIN TIMER MANUAL



Models:

ST7P-2A15S-ADC,  
ST7P-2A13T-ADC,  
ST7P-2A16T-ADC,  
ST7P-2A11N-ADC  
ST7P-2A16N-ADC

Original Edition

May 2003



## Safety Precautions

To ensure safe and proper operation, read this manual before installation, wiring, operation, maintenance, and inspection. Manual should be furnished to the final user.



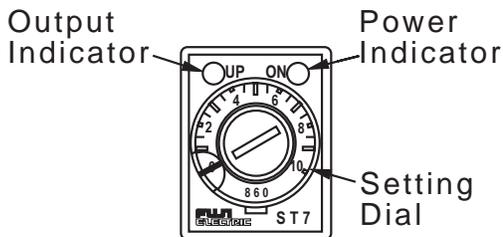
**WARNING: Incorrect installation or operation may cause death or serious injury, and damage to equipment. It may also be necessary to use fail-safe measures if controlling a critical process or safety application.**

- Remove input power before installation, wiring, maintenance or inspection to prevent electrical shock.
- Do not use this device if damaged when unpacked.
- Only qualified personnel should perform installation, maintenance or inspection of this device.
- To prevent fire, accidents and malfunction of this device, do not install in environments with high temperature, high humidity, dust, corrosive gases, water, direct sunlight or excessive vibration. Do not expose the case to solvents or corrosive substances such as benzene, strong acids or alkalis.
- Use this device within the range of its rated voltage and current.
- Fire may occur if the power supply and load are incorrectly connected.
- To prevent poor contact operation, keep timer from exposure to dust, concrete chips, iron filings and similar materials.
- To prevent terminal malfunction, tighten periodically.
- Never disassemble, modify or repair this device.
- If replacing this device, be sure to dispose of it properly.

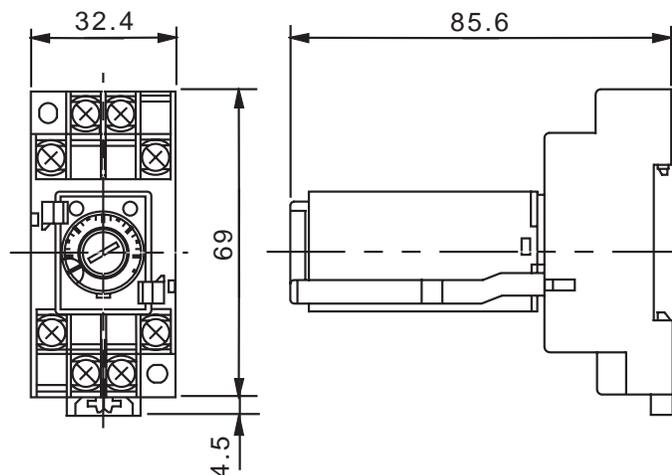
## Operation

- Set the time within the range of the timing scale divisions. To make timer output a signal as soon as power is turned on, turn timer dial fully counterclockwise.
- The timer dial can be turned while the timer is operating, but the time for that operation will not be correct.
- Do not try to turn the timer dial outside the timing range. Turn dial carefully and do not force.
- Do not remove the timer case, or the operating characteristics will change.

## Control



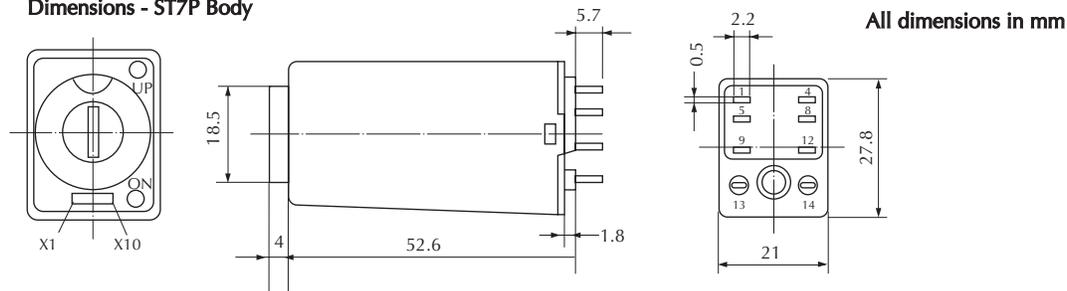
## Dimensions (Timer and Socket Shown Attached)



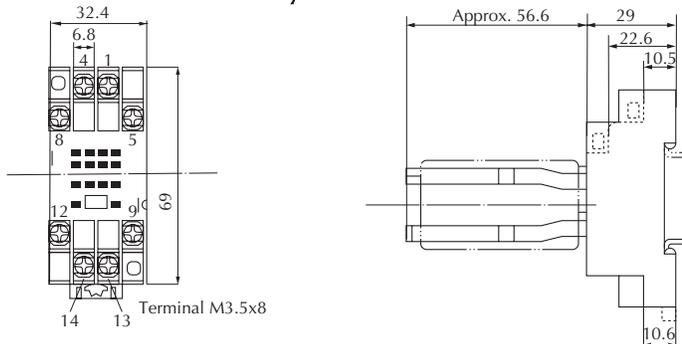
## Specifications

<b>Approvals</b>	UL file no.: Body - E44592, Socket - E90265; CSA file no.: LR20479; TUV license no: R9551799	
<b>Repeat Accuracy</b>	±01% at maximum setting time	
<b>Reset Time</b>	0.1 second or less	
<b>Maximum Operating Cycle</b>	1800 cycles/hour	
<b>Operating Voltage Range</b>	85-132VAC ST7P-2A15S-ADC ST7P-2A13T-ADC ST7P-2A16T-ADC ST7P-2A11N-ADC ST7P-2A16N-ADC	20.4-26.4VDC ST7P-2DE5S-ADC ST7P-2DE3T-ADC ST7P-2DE6T-ADC ST7P-2DE1N-ADC ST7P-2DE6N-ADC
<b>Operating Temperature Range</b>	-10 to +50°C (14 to 122°F)	
<b>Humidity</b>	35 to 85% (no condensation)	
<b>Contact Ratings</b>	3A @ 240VAC resistive load, 1A @120VAC inductive load; 3A @ 30VDC resistive load, 0.5A @ 30VDC inductive load	
<b>Power Consumption</b>	Approx. 1.2VA at 100VAC, approx. 1.5VA at 200VAC, 1.1W at 24VDC.	
<b>Insulation Resistance</b>	100MΩ at 500VDC insulation tested	
<b>Surge Voltage*</b>	3000 Volts	
<b>Dielectric Strength</b>	2000VAC 1 min. between current carrying part and non-current carrying part 2000VAC 1 min. between output contact and control circuit 1000VAC 1 min. between open contacts	
<b>Vibration</b>	Malfunction durability: 10 to 55Hz, 0.5mm double amplitude Mechanical durability: 10 to 55Hz, 0.7mm double amplitude	
<b>Shock</b>	Malfunction durability: 50m/s <sup>2</sup> Mechanical durability: 1000m/s <sup>2</sup>	
<b>Life Expectancy</b>	Mechanical: 50 million operations Electrical: 500,000 operations	
<b>Weight</b>	36.288g (1.28 oz.)	

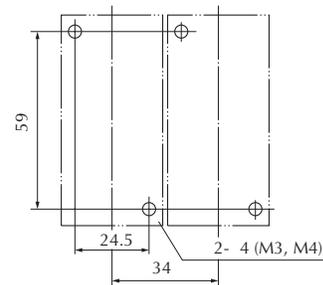
**Dimensions - ST7P Body**



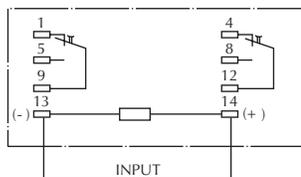
**Dimensions - TP88X2 Body**



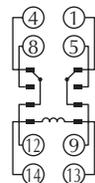
**Panel Drilling**



**Wiring Diagram**



**Sockets/Screw Terminal and Rail Mounting**



**Timing Diagram**

