

Timers for all Applications

AUTOMATIONDIRECT offers solid-state timers from two leaders in the industry, Fuji and Koyo.

Fuji Electric has been in business since 1923 and has been selling timers in the U.S. since 1970. All Fuji products are produced under ISO9001 and ISO14000 criteria. Koyo has been selling timers for over 30 years. All timers meet UL and CE conformity. Whether you need a miniature DIN timer, a 1/16 DIN timer, or a full-blown 1/16 DIN digital timer, and need to time in seconds or hours, AUTOMATIONDIRECT can supply a timer that fits your needs.



Fuji multi-mode timers feature:

Ease of use: How many times have you had to perform a math test just to determine your time range? In our unit, as the time range is adjusted, the corresponding display changes. This feature makes it very easy for the operator to set and read.

Full functionality: Up to four output modes can be selected simply with the turn of a screw. All outputs contain 5A, DPDT relays. This power allows you to minimize your inventory and maximize your flexibility.

LED indicators: Simply by looking at the face panel, you can tell if the timer is working properly.

Startup ease: When the dial is set to zero, the output turns on automatically. This feature allows for quick troubleshooting.

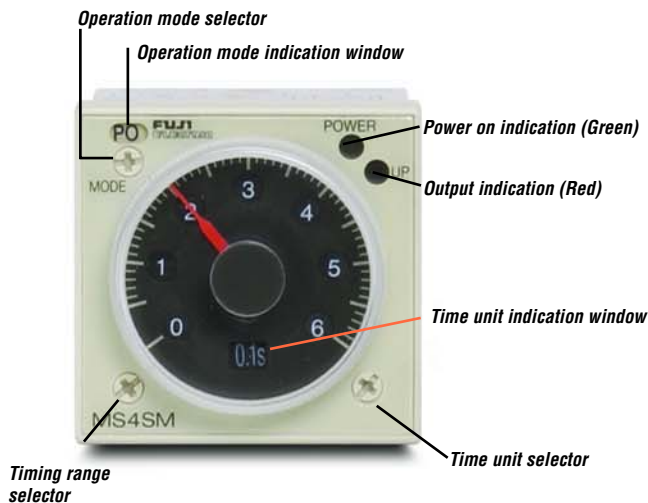
Miniature DIN timers are small and accurate

Small size: Measuring under one inch wide, these timers will save you much needed room in your enclosure. DIN rail mounting makes for easy installation.

Easy operation: A simple dial allows easy setup for the operator. With the indicating LEDs, an operator can easily check for proper operation.

Accuracy: The timer will perform its timing function, over and over again, with repeatable accuracy of +/- 1% of the setting.

FUJI multi-mode timers with full features



Fuji Miniature DIN Super Timers

Overview

The ST7P is a compact and highly accurate timer. It is an on-delay operation type with a single timing range. These timers are designed to optimize mounting space in small areas. Mounting is by DIN rail or by securing directly to a panel with a fastener.

Features

- Highly accurate, with a repeat accuracy within $\pm 1\%$ at maximum setting time
- ST7P models offer a number of timing ranges. Please see Selection Guide below
- Large dial makes time setting easy
- LED indicators make it easy to monitor timer operation
- ST7P series meets UL and CSA standards



ST7P Miniature Super Timer with TP88X2 Socket

Product Selection Guide				
Part Number	Description	Voltage	Time Range	Price
ST7P-2A15S-ADC	Mini-DIN on-delay timer with timing range of 0.4s to 5s. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved	100-120VAC	0.4 seconds to 5 seconds	<--->
ST7P-2A13T-ADC	Mini-DIN on-delay timer with timing range of 2s to 30s. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved		2 seconds to 30 seconds	<--->
ST7P-2A16T-ADC	Mini-DIN on-delay timer with timing range of 4s to 60s. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved		4 seconds to 60 seconds	<--->
ST7P-2A11N-ADC	Mini-DIN on-delay timer with timing range of 1 min. to 10 min. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved		1 minute to 10 minutes	<--->
ST7P-2A16N-ADC	Mini-DIN on-delay timer with timing range of 4 min. to 60 min. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved		4 minutes to 60 minutes	<--->
ST7P-2DE5S-ADC	Mini-DIN on-delay timer with timing range of 0.4s to 5s. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved	24VDC	0.4 seconds to 5 seconds	<--->
ST7P-2DE3T-ADC	Mini-DIN on-delay timer with timing range of 2s to 30s. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved		2 seconds to 30 seconds	<--->
ST7P-2DE6T-ADC	Mini-DIN on-delay timer with timing range of 4s to 60s. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved		4 seconds to 60 seconds	<--->
ST7P-2DE1N-ADC	Mini-DIN on-delay timer with timing range of 1 min. to 10 min. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved		1 minute to 10 minutes	<--->
ST7P-2DE6N-ADC	Mini-DIN on-delay timer with timing range of 4 min. to 60 min. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved		4 minutes to 60 minutes	<--->
TP88X2	Socket for ST7P series timers. UL, CSA, TÜV approved	N/A	N/A	<--->

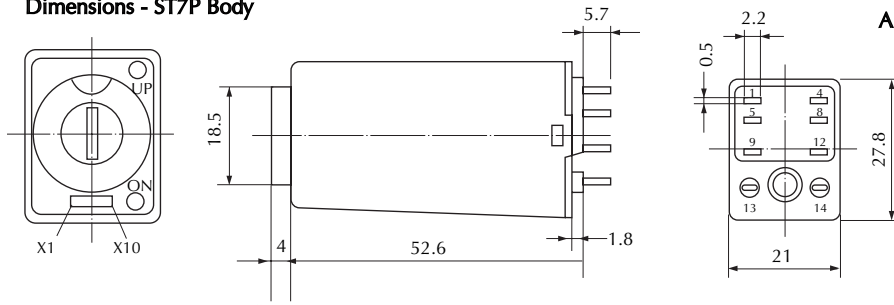
Fuji Miniature DIN Super Timer Specifications

Specifications													
Approvals	UL file no.: Body - E44592, Socket - E90265; CSA file no.: LR20479; TÜV license no: R9551799												
Repeat Accuracy	±01% at maximum setting time												
Reset Time	0.1 second or less												
Maximum Operating Cycle	1800 cycles/hour												
Operating Voltage Range	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">85-132 VAC</td> <td style="width: 50%;">20.4-26.4 VDC</td> </tr> <tr> <td>ST7P-2A15S-ADC</td> <td>ST7P-2DE5S-ADC</td> </tr> <tr> <td>ST7P-2A13T-ADC</td> <td>ST7P-2DE3T-ADC</td> </tr> <tr> <td>ST7P-2A16T-ADC</td> <td>ST7P-2DE6T-ADC</td> </tr> <tr> <td>ST7P-2A11N-ADC</td> <td>ST7P-2DE1N-ADC</td> </tr> <tr> <td>ST7P-2A16N-ADC</td> <td>ST7P-2DE6N-ADC</td> </tr> </table>	85-132 VAC	20.4-26.4 VDC	ST7P-2A15S-ADC	ST7P-2DE5S-ADC	ST7P-2A13T-ADC	ST7P-2DE3T-ADC	ST7P-2A16T-ADC	ST7P-2DE6T-ADC	ST7P-2A11N-ADC	ST7P-2DE1N-ADC	ST7P-2A16N-ADC	ST7P-2DE6N-ADC
85-132 VAC	20.4-26.4 VDC												
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Operating Temperature Range	-10 to +50°C (14 to 122°F)												
Humidity	35 to 85% (no condensation)												
Contact Ratings	3 A @ 240 VAC resistive load, 1 A @120 VAC inductive load; 3 A @ 30 VDC resistive load, 0.5 A @ 30 VDC inductive load												
Power Consumption	Approx. 1.2 VA at 100 VAC, approx. 1.5 VA at 200 VAC, 1.1 W at 24 VDC.												
Insulation Resistance	100MΩ at 500 VDC insulation tested												
Surge Voltage*	3000 Volts												
Dielectric Strength	2000 VAC 1 min. between current carrying part and non-current carrying part 2000 VAC 1 min. between output contact and control circuit 1000 VAC 1 min. between open contacts												
Vibration	Malfunction durability: 10 to 55Hz, 0.5mm double amplitude Mechanical durability: 10 to 55Hz, 0.7mm double amplitude												
Shock	Malfunction durability: 50m/s ² Mechanical durability: 1000m/s ²												
Life Expectancy	Mechanical: 50 million operations (No load; operation cycle 1800/hr.) Electrical: 500,000 operations (3 A @ 220 VAC, resistive load; operation cycle 1800/hr.)												
Weight	36.288g (1.28 oz.)												

* Note: If surge voltage exceeds 3000V, use surge suppressors.

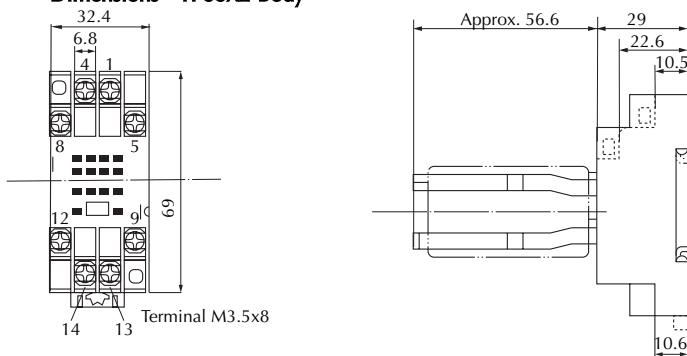
Fuji Miniature DIN Timers Timing and Wiring

Dimensions - ST7P Body

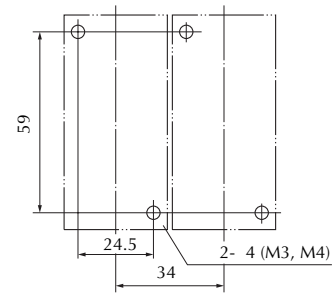


All dimensions in mm

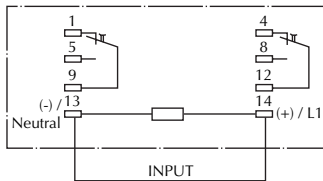
Dimensions - TP88X2 Body



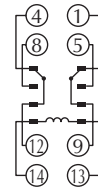
Panel Drilling



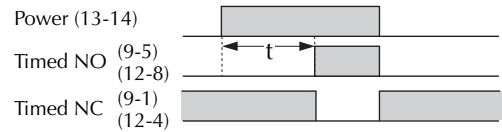
Wiring Diagram



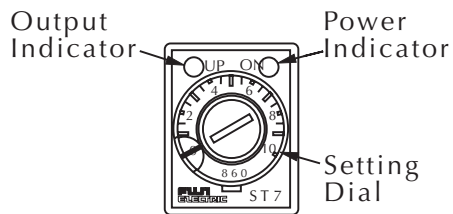
Sockets/Screw Terminal and Rail Mounting



Timing Diagram



Control



Dimensions (Timer and Socket Attached)

