

# 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

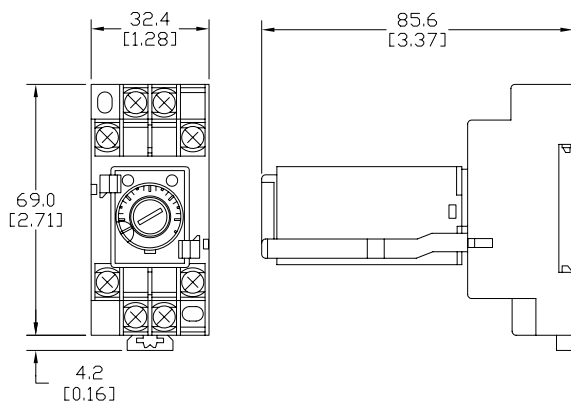
**Fuji Miniature DIN Super Timers Selection Chart**

| Part Number                           | Price    | Description                                                                                                                         | Voltage    | Time Range               |
|---------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------|
| <a href="#"><u>ST7P-2A15S-ADC</u></a> | \$04?z:  | 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 |
| <a href="#"><u>ST7P-2A13T-ADC</u></a> | \$04?y:  | 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  |
| <a href="#"><u>ST7P-2A16T-ADC</u></a> | \$;04?[: | 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  |
| <a href="#"><u>ST7P-2A11N-ADC</u></a> | \$04?x:  | 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   |
| <a href="#"><u>ST7P-2A16N-ADC</u></a> | \$;04?]: | 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  |
| <a href="#"><u>ST7P-2DE5S-ADC</u></a> | \$;04?!: | 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 |
| <a href="#"><u>ST7P-2DE3T-ADC</u></a> | \$04?#:  | 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  |
| <a href="#"><u>ST7P-2DE6T-ADC</u></a> | \$;04?,: | 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  |
| <a href="#"><u>ST7P-2DE1N-ADC</u></a> | \$04?_:  | 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   |
| <a href="#"><u>ST7P-2DE6N-ADC</u></a> | \$04??:  | 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  |
| <a href="#"><u>TP88X2</u></a>         | \$;05!5: | DIN rail/surface mount socket for ST7P series timers. UL, CSA, TÜV approved                                                         | N/A        | N/A                      |

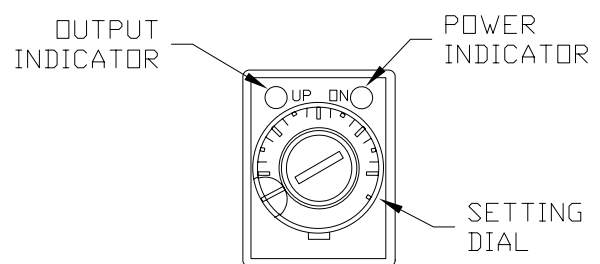
## Dimensions

mm [inches]

**Timer and Socket Assembly**



**Control**



# Fuji Miniature DIN Super Timer Specifications

| Fuji Miniature DIN Super Timers Specifications |                                                                                                                     |                                |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <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>                 | 85-132 VAC 50/60 Hz                                                                                                 | 20.4-26.4 VDC                  |
|                                                | <a href="#">ST7P-2A15S-ADC</a>                                                                                      | <a href="#">ST7P-2DE5S-ADC</a> |
|                                                | <a href="#">ST7P-2A13T-ADC</a>                                                                                      | <a href="#">ST7P-2DE3T-ADC</a> |
|                                                | <a href="#">ST7P-2A16T-ADC</a>                                                                                      | <a href="#">ST7P-2DE6T-ADC</a> |
|                                                | <a href="#">ST7P-2A11N-ADC</a>                                                                                      | <a href="#">ST7P-2DE1N-ADC</a> |
|                                                | <a href="#">ST7P-2A16N-ADC</a>                                                                                      | <a href="#">ST7P-2DE6N-ADC</a> |
| <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 @ 240 VAC resistive load, 1 A @120 VAC inductive load; 3A @ 30 VDC resistive load, 0.5 A @ 30 VDC inductive load |                                |
| <b>Power Consumption</b>                       | Approx. 1.2 VA at 100 VAC, approx. 1.5 VA at 200 VAC, 1.1 W at 24 VDC.                                              |                                |
| <b>Insulation Resistance</b>                   | 100MΩ at 500 VDC insulation tested                                                                                  |                                |
| <b>Surge Voltage *</b>                         | 3000 Volts                                                                                                          |                                |
| <b>Dielectric Strength</b>                     | 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                                                                               |                                |
| <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 (No load; operation cycle 1800/hr.)                                               |                                |
|                                                | Electrical: 500,000 operations (3A @ 220 VAC, resistive load; operation cycle 1800/hr.)                             |                                |
| <b>Weight</b>                                  | 36.288 g [1.28 oz]                                                                                                  |                                |
| <b>Agency Approvals and Standards **</b>       | UL file no.: Body - E44592, Socket - E90265; TÜV license no: R9551799                                               |                                |

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

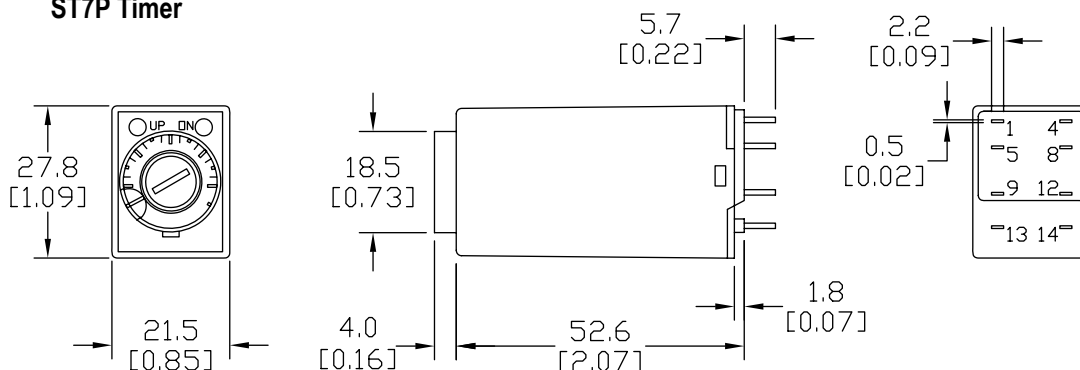
\*\* To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

# Fuji Miniature DIN Timers, Dimensions, Timing and Wiring

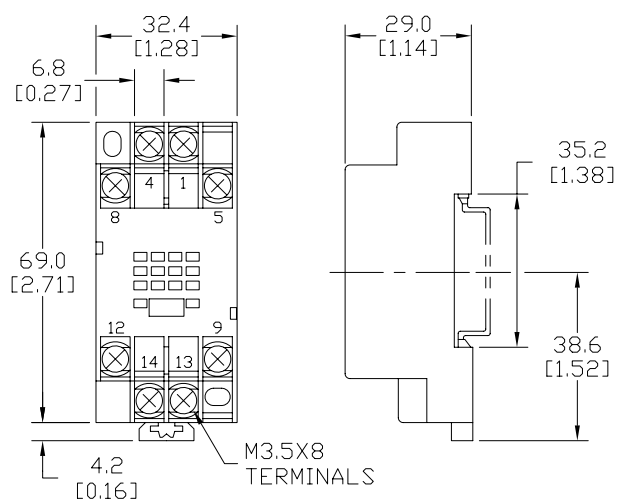
## Dimensions

mm [inches]

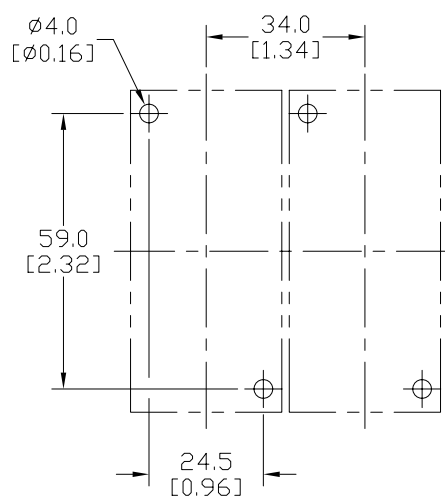
**ST7P Timer**



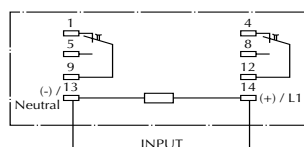
**TP88X2 Socket**



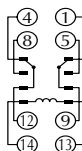
**Panel Mounting**



**Wiring Diagram**



**Sockets/Screw Terminal and Rail Mounting**



**Timing Diagram**

