

# SSF series

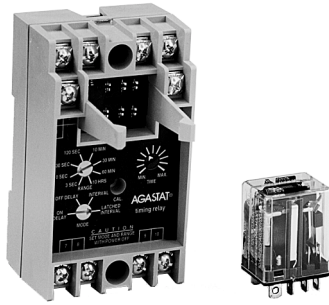
## Programmable Time Delay Relay

- 4 user-programmable timing modes
- 0.1 sec. to 10 hr. programmable timing range
- Parameters set with recessed screwdriver dials
- Universal voltage (plug-in relay dependent)
- 10A DPDT replaceable output relay minimizes downtime
- Front screw terminals
- DIN-rail, panel or machine tool track mount

File E15631

File LR29186

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.



### Timing Modes

Modes are user selectable via screwdriver adjustment of recessed 4-position selector dial. Modes offered are: On-Delay, Off-Delay, Interval and Latching Interval.

### Timing Specifications

**Timing Ranges:** 0.1 to 3 / 0.33 to 10 / 1 to 30 / 4 to 120 sec.; 0.33 to 10 / 1 to 30 / 2 to 60 min.; 0.33 to 10 hr.

**Timing Range Selection:** Screwdriver select via recessed 8-position selector dial.

**Timing Adjustment:** Recessed potentiometer adjustment with reference calibrations.

**Accuracy:** Repeat Accuracy:  $\pm 1\% \pm 0.01$  sec.  
Overall Accuracy:  $\pm 3\% \pm 0.01$  sec.

**Reset Time:** 30 ms.

**Relay Operate Time:** On-Delay and Interval mode: 30 ms.

**Relay Release Time:** Off-Delay, Interval and Latching Interval: 30 ms. (with factory-installed relay).

### Contact Data @ 25°C

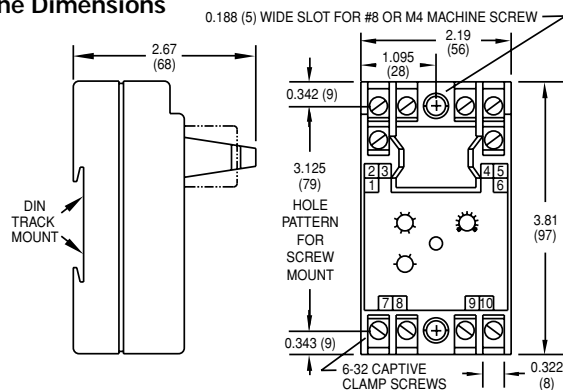
**Arrangements:** 2 Form C (DPDT).

**Rating:** 10A @ 28VDC or 120VAC, resistive; 1/3 HP @ 120/240VAC 345VA.

**Expected Mechanical Life:** 10 million operations (with factory-installed relay).

**Expected Electrical Life:** 500,000 operations, min., at rated resistive load (with factory-installed relay).

### Outline Dimensions



### Wiring Diagram (Top View)



Dimensions are shown for reference purposes only.

Dimensions are in inches over (millimeters) unless otherwise specified.

### Initial Dielectric Strength

**Between Coil/Control Switch and Contacts:** 1,500VAC for one minute.

### Input Data @ 25°C

**Voltage:** See Ordering Information section for details.

**Power Requirement:** 2W, max.

**Transient Protection:** Non-repetitive transients of the following magnitudes will not cause spurious operation of affect function and accuracy.

Operating Voltage	<0.1 ms	<1 ms
24, 48 VAC/VDC	1,000V	480V
120, 240VAC/VDC	3,000V	2500V*

\* Min. source impedance of 100 ohm@120/240VAC, 3000V <0.1 , sec.

### Environmental Data

**Temperature Range:** Storage: -40°C to +85°C.

Operating: -30°C to +65°C.

### Mechanical Data

**Mounting/Termination:** Panel, DIN-rail, Machine Tool mounting track mounting case with screw terminals.

**Weight:** 5.5 oz. (156g) approximately.

### Ordering Information

SSF	R	90	A
Series SSF Universal Timer	R = UL Recognized Component	Operating Mode 90 Multiple modes - On-Delay Off-Delay Interval Latching Interval	Operating Voltage (+10%, -15%) A = 120VAC, 50/60 Hz. B = 240VAC, 50/60 Hz. E = 24VAC, 50/60 Hz. F = 48VAC, 50/60 Hz. N = 48VDC O = 24VDC P = 125VDC X = No factory- installed relay. †

† Voltage determined by customer-supplied relay. Only relays that operate on the above-listed voltages should be used. Timer operation using other relay voltages is not recommended.

### Authorized distributors are likely to stock the following:

SSFR90A  
SSFR90X

Specifications and availability subject to change.

www.tycoelectronics.com  
Technical support:  
Refer to inside back cover.

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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### Офис по работе с юридическими лицами:

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