



Solid State Timers and Controllers

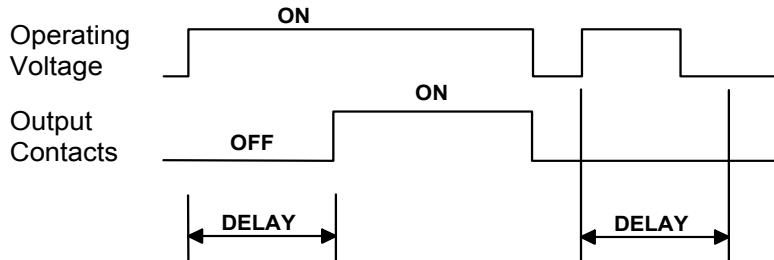
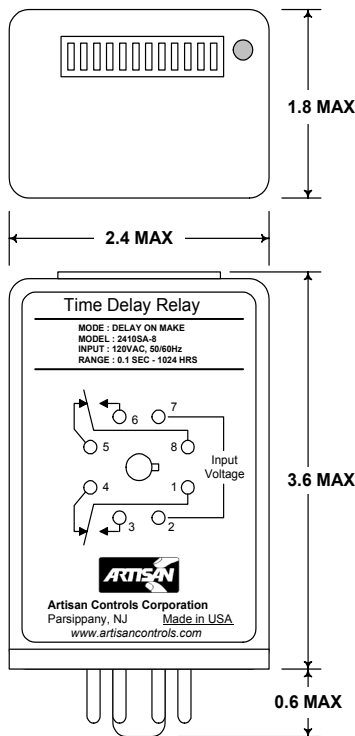
**0.1 Seconds to
1024 Hours!**

2410SA DIP Switch Adjustable Delay-On-Make Timer



The 2410SA is a delay-on-make timer controlling a DPDT set of relay contacts. The 2410SA is available in both AC and DC voltage models, and all models provide an integral 12 position DIP switch used to determine the time delay value. With the operating voltage applied the unit starts timing, at the end of the time delay the output relay is energized. Remove the operating voltage to reset the output and time delay. DIP switches 11 & 12 determine the time delay range, while switches 1 - 10 determine the time delay period. The integral LED indicates the state of the output contacts.

Timing Diagram



Setting the Time Delay

Setting the time delay is an easy two step process :

Selecting the Time Range - Open or Close switches 11 & 12 per the chart below to select from the four time ranges: 0.1 - 102.4 seconds, 1 - 1024 seconds, 1 - 1024 minutes, and 1 - 1024 hours.

Setting the Time Delay - The timer has a built-in delay equal to the switch 1 value for the selected range (0.1 sec, 1 sec, etc.). Close the additional switches (1 - 10) which add their values from the chart below to the built-in time to achieve the desired time delay.

Example: To set for 30 minutes - switches 11 closed and 12 open for minutes range, then close switches 5, 4, 3, and 1 for a total of 29 minutes, all other switches open. The built in 1 minute completes the full 30 minutes.

DIP Switch Chart

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Time Delay Range |
|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|---------------------|
| 0.1 | 0.2 | 0.4 | 0.8 | 1.6 | 3.2 | 6.4 | 12.8 | 25.6 | 51.2 | off | off | 0.1 - 102.4 Seconds |
| 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 256 | 512 | off | ON | 1 - 1024 Seconds |
| 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 256 | 512 | ON | off | 1 - 1024 Minutes |
| 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 256 | 512 | ON | ON | 1 - 1024 Hours |

VISIT OUR WEB SITE AT : www.artisancontrols.com

Notice: Artisan Controls Corporation assumes no responsibility for customer's applications or product design. The information and data contained herein is the sole and exclusive property of Artisan Controls Corporation. Any duplication, misuse, or conversion of this information without the express written consent of Artisan Controls Corporation is illegal and will result in damages including court costs and attorney fees being assessed against the party misusing this property.

Tel: 973-598-9400 • Fax: 973-598-9410 • Toll Free: 800-457-4950
 Artisan Controls Corporation, 111 Canfield Ave. Bldg B15-18, Randolph, New Jersey 07869, USA



Solid State Timers and Controllers

Specifications

Timing Mode: Microprocessor-based Delay-On-Make.

Operating Voltage: Non-polar connection, see values below, 50/60 Hz for AC voltages.

Operating Power: Idle operating current < 10mA for all voltages. Nominal operating current with relay output energized is 60mA @ 12VDC (-2), 30mA @ 24V AC/DC (-3), 15mA @ 115VAC (-8).

Operating Voltage Tolerance: -10%/+20%

Operating Temperature: -20°C to +65°C.

Purchase Tolerance: ±2% or 20mS whichever is greater.

Timing Repeatability: Better than ±2%.

Time/Temperature Coefficient: Better than ±0.1%/°C.

Recycle Time: 75mSec minimum with relay on, 150mSec minimum with relay off.

Output Relay Ratings: DPDT contacts rated 12A resistive at 125VAC, 7A resistive at 250VAC/30VDC.

Contact Life Expectancy: 30,000 cycles @ 12A/120VAC, 100,000 cycles @ 10A/120VAC or 7A/240AC, 900 cycles/hour maximum w/resistive load.

Terminations: Octal plug-in type.

Dielectric Rating: 750 Vrms between open contact sets, 1500 Vrms between contacts and operating voltage terminals.

Transient Protection: Protected by silicon transient suppressors responding to transients within 1x10⁻¹² seconds to a peak pulse power dissipation of 1500W.

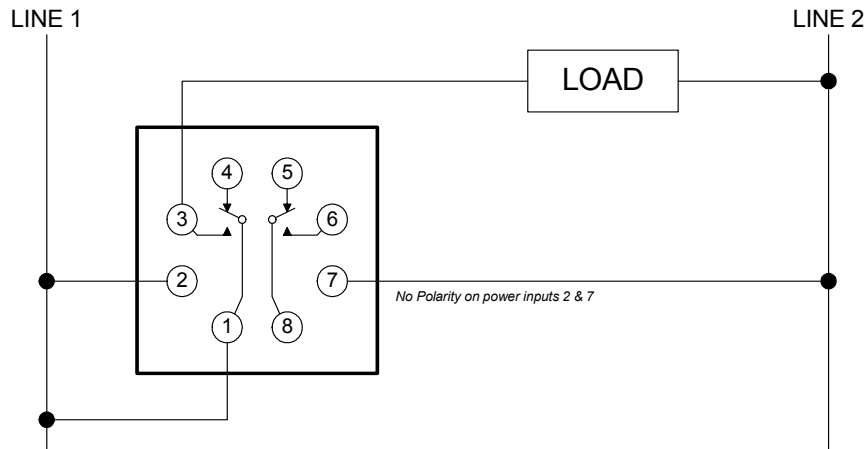
Agency Recognition: Certified to UL Component-Appliance Controls ATNZ2 (US) and ATNZ8 (Can), UL File E47858.

Document © and Revision Date: April 14, 2009

Ordering Information

| Model Number | Operating Voltage |
|---------------|-------------------|
| 2410SA | -2 (12V DC) |
| | -3 (24V AC/DC) |
| | -8 (115V AC) |

Typical Wiring Example



VISIT OUR WEB SITE AT: www.artisancontrols.com

Notice: Artisan Controls Corporation assumes no responsibility for customer's applications or product design. The information and data contained herein is the sole and exclusive property of Artisan Controls Corporation. Any duplication, misuse, or conversion of this information without the express written consent of Artisan Controls Corporation is illegal and will result in damages including court costs and attorney fees being assessed against the party misusing this property.

Tel: 973-598-9400 • Fax: 973-598-9410 • Toll Free: 800-457-4950

Artisan Controls Corporation, 111 Canfield Ave. Bldg B15-18, Randolph, New Jersey 07869, USA