



Solid State Timers and Controllers

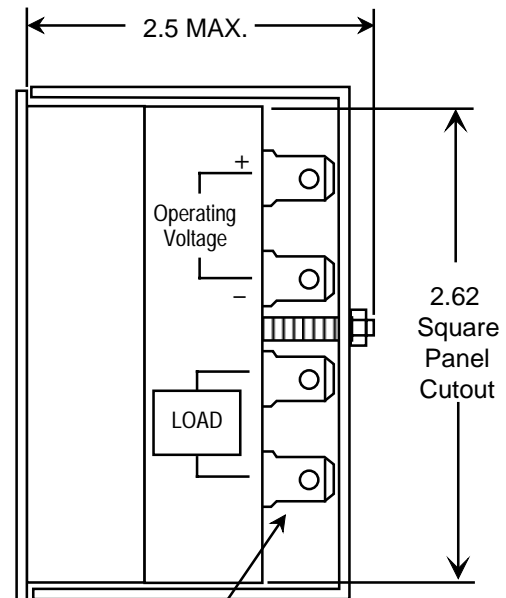
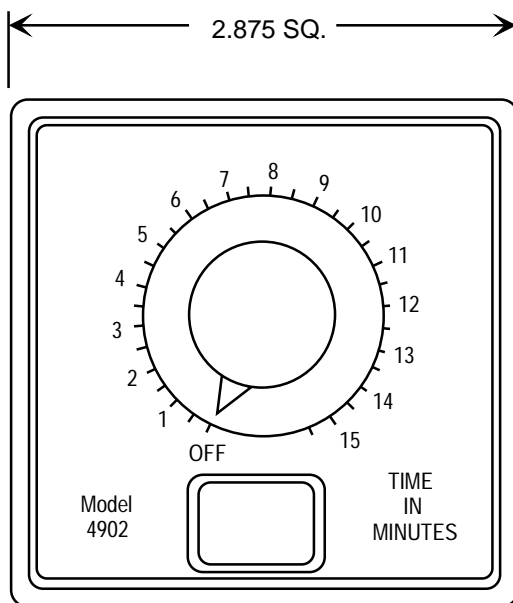
4902

Single-Shot Interval Timer



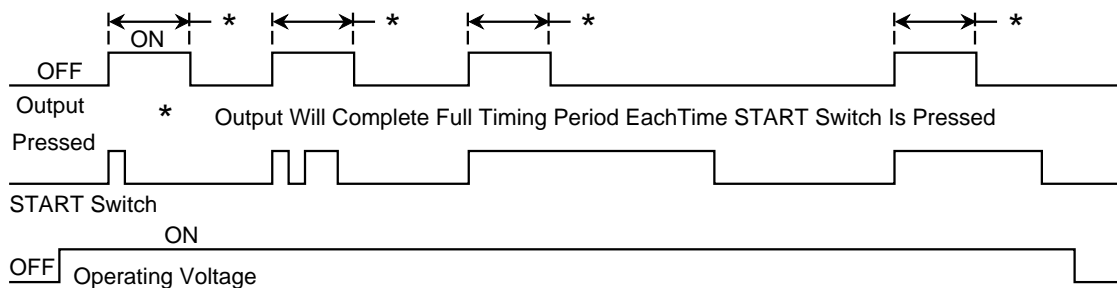
The model 4902 is an all solid state timer intended for use in any application which requires an external load circuit to be energized for an interval of time each time the start switch of the timer is momentarily pressed. The timing period is set by a 32 position rotary switch which adjusts the timer from OFF to the maximum time as specified by the model number. As a complete timing assembly, the 4902 is ready to mount behind a front panel to form an integral timing controller. High transient voltage protection is afforded by the use of transient absorption zener devices on the operating voltage input, the solid state switch output, and the timing circuits. The model 4902 is available in seven operating voltage ranges and fifteen timing ranges.

Mechanical & wiring



.25 Quick Disconnect Terminals
U Channel Mounting Bracket
Holds Timer Securely To Front Panel

Timing Diagram



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Specifications

Operating Voltage: 12V DC (10V - 15V), 24V DC (20V - 30V), 48V DC (44V - 52V), 110V DC (100V - 120V), 115V AC (105V - 135V) 50/60 Hz.

Timing Mode: Single-shot interval - Non-Retriggerable 31 Switch Selectable Times.

Timing Increments: Fifteen models from 0.5 second to 1 hour (See *Ordering Information*).

Timing Range: Range is the incremental timing period x 31 in 31 incremental steps:



- (-1) 0.5 - 15.5 seconds in 0.5 second increments
- (-2) 1 - 31 seconds in 1 second increments
- (-3) 5 - 155 seconds in 5 second increments
- (-4) 10 - 310 seconds in 10 second increments
- (-5) 15 - 465 seconds in 15 second increments
- (-6) 20 - 620 seconds in 20 second increment
- (-7) 25 - 775 seconds in 25 second increment
- (-8) 30 - 930 seconds in 30 second increment
- (-9) 1 - 31 minutes in 1 minute increments
- (-10) 2 - 62 minutes in 2 minute increments
- (-11) 3 - 93 minutes in 3 minute increments
- (-12) 5 - 155 minutes in 5 minute increments
- (-13) 10 - 310 minutes in 10 minute increments
- (-14) 30 - 930 minutes in 30 minute increments
- (-15) 1 - 31 hours in 1 hour increments

See
*Ordering
Information*

"OFF" Position: The position marked "OFF" disables the timer from all operation.

START Switch: Integral momentary switch initiates a single output timing cycle.

Output: Solid state switch - AC models rated for 1A, DC models rated for 0.5A.

Output Switch Leakage Current: AC models have 3mA, and DC models have 1.5mA maximum.

Output Switch Voltage Drop: 2V maximum, AC and DC models.

Internal Clock: The internal clock is independent of the AC line frequency, and is factory set to provide timing accuracy to 1% of all switch positions.

Timing Repeatability: 1% of the time selected.

Transient Protection: Protected by silicon transient suppressors which respond to transients within 1×10^{-12} seconds to a peak pulse power dissipation of 1500 watts, with transient surge currents to 200 amperes for durations up to 1/120 second at 25° C. Maximum transient voltage protection is 6000 volts as delivered through a source resistance of 30 ohms with a max. duration of 8.3mS.

Operating Temperature: 0°C to +70°C.

Data Sheet Revision Date: December 26, 1995

Ordering Information

Part Number	Operating Voltage	Timing Range
4902	(- 2) 12V DC	-1 0.5 - 15.5 seconds in 0.5 second increments
		-2 1 - 31 seconds in 1 second increments
	(- 3) 24V DC	-3 5 - 155 seconds in 5 second increments
		-4 10 - 310 seconds in 10 second increments
	(- 4) 48V DC	-5 15 - 465 seconds in 15 second increments
		-6 20 - 620 seconds in 20 second increment
	(- 5) 110V DC	-7 25 - 775 seconds in 25 second increment
		-8 30 - 930 seconds in 30 second increment
	(- 6) 24V AC	-9 1 - 31 minutes in 1 minute increments
		-10 2 - 62 minutes in 2 minute increments
	(- 7) 48V AC	-11 3 - 93 minutes in 3 minute increments
		-12 5 - 155 minutes in 5 minute increments
	(- 8) 115V AC	-13 10 - 310 minutes in 10 minute increments
		-14 30 - 930 minutes in 30 minute increments
		-15 1 - 31 hours in 1 hour increments

Example: 4902 - 6 - 3 Is the model 4902 operating from 24V AC with a switch selectable timing range of 5 to 155 seconds in 5 second increments.

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