

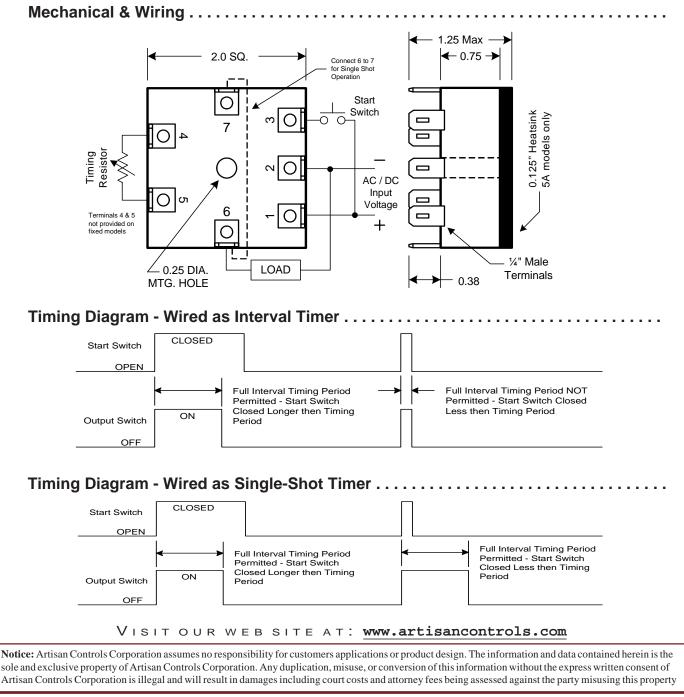
Solid State Timers and Controllers

4310

Interval / Single-Shot Timing Module



The model 4310 can perform as either an interval timer or as a single-shot timer. This model controls DC loads to 1 Ampere and AC loads to 10 Amperes. The AC models provide zero-voltage switching (standard) or random-voltage switching (cost effective) dependant on the output dash number selected. To use as a single-shot timer, install a jumper across terminals 6 & 7, then a full time delay is achieved with only a momentary start switch closure. Without the jumper, the unit operates as an interval timer, requiring the start switch to be closed for the entire timing period.



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Timing vs Resistance Chart

External Resistor (Ohms)	Timing Range Dash Number					
	-1	-2	-3	-4	-5	
0	0.1	1	2	10	30	
1 Meg	4	30	100	500	900	
3 Meg	12	90	300	1,500	2,700	
5 Meg	20	150	500	2,500	4,500	
10 Meg	30	300	1,000	4,500	8,000	

Ordering Charts: Fixed (4310F) & Adjustable (4310A)

Part Number	- Operating Voltage	- Output Rating -	Fixed Time in Seconds -	Fixed Time Tolerance
	-2 (12VDC) -3 (24VDC) -4 (48VDC)	-A (1 Amp) Specify the fixed	Specify the fixed timing period in seconds from 0.1 to 8000-A (\pm 2%) -B (\pm 5%) -C (\pm 10%) -D (\pm 20%)	, <i>,</i> ,
4310F	-6 (24VAC) -7 (48VAC) -8 (120VAC) -9 (230VAC)	-A (1 Amp) -B (5 Amp) -C (1 Amp) -D (5 Amp) -A & -B = 0V switch (std) -C & -D = random switch		-C (± 10%)

Part Number - Operating Voltage - Output Rating - Timing Range

	-2 (12VDC) -3 (24VDC) -4 (48VDC)	-A (1 Amp)	-1 (0.1 - 30) -2 (1 - 300) -3 (2 - 1000)
4310A	-6 (24VAC) -7 (48VAC) -8 (120VAC) -9 (230VAC)	-A (1 Amp) -B (5 Amp) -C (1 Amp) -D (5 Amp) -A & -B = 0V switch (std) -C & -D = random switch	-4 (10 - 4500) -5 (30 - 8000) All times in seconds



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ARTSSN Solid State Timers and Controllers

Specifications	
Operating Voltage:	12V DC, 24V DC, 48V DC, 24V AC, 48V AC, 115V AC, 230V AC.
	±20%, AC 50/60 Hz.
	All voltages < 20mA plus load current requirements.
	Interval or Single-Shot.
•	From 0.10 seconds to 8,000 seconds.
Fixed Timing Purchase Tolerance:	
Adjustable Timing:	0.1 seconds to 8000 seconds covered by 5 ranges. Each range specified is covered from minimum to maximum using a 0 to 10 Meg ohm external timing
	resistance.
Timing Range Tolerance:	Minimum time - 15% +0%, maximum time - 0% +15%. Example: The -3 timing
	range operates in the 2 - 100 second range with 0 - 1 meg ohm external timing
	resistor could exhibit a minimum time of 1.7 seconds (2 seconds - 15%) with 0
	ohms external timing resistance, and a maximum time of 115 seconds (100
	seconds + 15%) with an external timing resistor of 1 meg ohm. The extended
	range to 1000 seconds using 10 meg ohms external timing resistance could be
	as high as 1150 seconds (1000 seconds + 15%).
	Worst case power dissipation never exceeds 15 milliwatts.
	Timing range specified is guaranteed as a minimum using 5% resistors. Less than 6% of set point over specified temperature and voltage range.
Repeatability Of Timing Period:	
	Operating voltage must be removed for a minimum of 200 milliseconds to
	guarantee all timing and output circuits have reset.
Start Switch:	SPST-NO closes to initiate an output interval. Switch must be rated for low
	level operation down to 500 microamperes at 12V DC. When operating in the
	Single-Shot mode (terminals 6 & 7 jumpered) the Initiate switch must be
	closed for a minimum of 50mS to assure a full single-shot output timing
	interval. The Initiate switch may be reclosed 50mS after the timing interval has
Output Pating:	completed and the output switch turned off. -A & -C models rated for 70mA to 1A inductive with inrush currents to 15 A for 8
Output Rating.	mSB & -D models rated for 70 mA to 5 A inductive with inrush currents to 40A
	for 8 mS. The -B & -D models can be extended to operate as high as 10A
	providing the metal base of the timer is maintained at a temperature no greater
	than 85°C. This can generally be achieved if ambient temperature does not
	exceed 30°C and the timer is mounted to a metal chassis that provides a
	minimum of 15 cubic inches of heat sink. Apply a thermal compound between
Zara Valtara Switching	the timer's base and the chassis.
	-A & -B AC models provide zero voltage switching within ±50 microseconds of zero volts (standard), -C & -D AC models provide random voltage switching.
	2 volts maximum for DC models, 3 volts maximum for AC models.
	2 mA maximum for DC models, 4 mA maximum for AC models.
•	Protected by silicon transient suppressors which respond within 1 x 10 ⁻¹²
	seconds to a peak pulse power dissipation of 1500 watts, with 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 maximum duration of 8.3 milliseconds.
	1500V rms all terminals to case on -A & -C models, to heat sink on -B & -D.
Operating Temperature:	95% non-condensing.
•	Encapsulated module with .25 quick connect wiring terminals.
	UL File E47858: Component Appliance Controls ATNZ2(US) & ATNZ8(Can),
-3	Component Auxiliary Devices NKCR2(US) & NKCR2(Can).
Data Sheet Revision Date:	

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