

Solid State Timers and Controllers



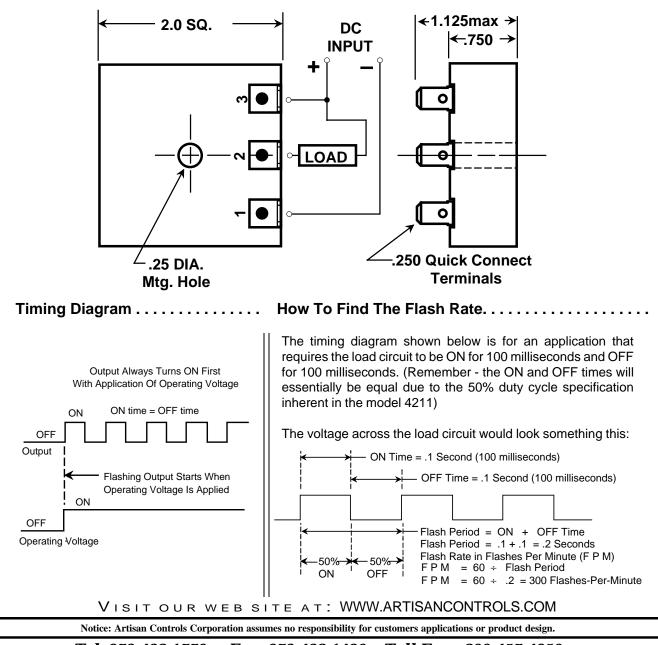
Solid State DC Flasher



The Model 4211 is an all solid state flasher intended for use in DC circuits only. Capable of flashing a load circuit up to two amperes at a fifty percent duty cycle. Output switch is ON for as long as it is OFF. Flash rates from 1 flash per minute up to 5,000 flashes per minute are available in five operating voltage ranges. A unique feature of the model 4211 is the low operating power and low voltage drop across the output switch when in the ON state. The model 4211 has internal transient protection devices to assure reliable operation even when driving inductive load circuits such as relays or solenoids.

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Mechanical & Wiring



Tel: 973-428-1770 • Fax: 973-428-1426 • Toll Free: 800-457-4950 Artisan Controls Corporation. 5 Eastmans Road. Suite 100. Parsippany. New Jersey 07054. USA



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Specifications	
Operating Voltage:	DC only (5, 12, 24, 48, 110).
Operating Current:	5mA + load current at any operating voltage.
Voltage Tolerances:	±15%.
Timing Mode:	Flasher.
Fixed Flash Rate:	Factory fixed at any rate from 1 to 5,000 flashes-per-minute (FPM)
Fixed Flash Duty Cycle:	50%.
Flash Rate Duty Cycle Tolerance:	
	2%, 5%, 10%, and 20% available.
	Less than 4% of set point over full temperature and voltage range.
	\pm 1% at stabilized operating voltage temperature.
Recycle Time:	Operating voltage must be removed for a minimum of 200 milliseconds
	to assure that timing and output circuits are reset. If it is not a requirement
	that the load circuit always be energized when operating voltage is re-
	applied, the operating voltage may be re-applied at any time.
	2mA to 2A inductive with inrush current to 20A for 10 milliseconds.
Output Switch Voltage Drop:	
	1 mA maximum when load circuit is de-energized.
Transient Protection:	Output switch protected by silicon transient suppressors responding 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 maximum duration of 8.3ms.
	1500V rms all terminals to case.
Operating Temperature:	
	Encapsulated module with .25 quick connect wiring terminals.
Data Sheet Revision Date:	June 17, 2000

Ordering Information

Part Number	 Operating Voltage 	Flash Rate (FPM)	Flash Rate Tolerance
4211 - 5V DC 12V DC 24V DC 48V DC 110V DC	5V DC	Specify Fixed Flash	-A 2%
		Rate Required From	-B 5%
	1 to 5,000 Flashes	-C 10 %	
		Per Minute	-D 20 %

Examples Of Part Numbers			
4211 - 12VDC - 90 - C Is a model 4211 operating from 12V DC with a flash rate of 90 flashes-per-minute (FPM) to a tolerance of ±10% on the flash rate. The load circuit will be ON for 333mS and OFF for 333 mS.			
4211 - 24 DC - 1000 - B Is a model 4211 operating from 24V DC with a flash rate of 1000 flashes-per-minute			

4211 - 24 DC - 1000 - B Is a model 4211 operating from 24V DC with a flash rate of 1000 flashes-per-minute (FPM) to a tolerance of ±10% on the flash rate. The load circuit will be ON for 30mS and OFF for 30 mS.

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