

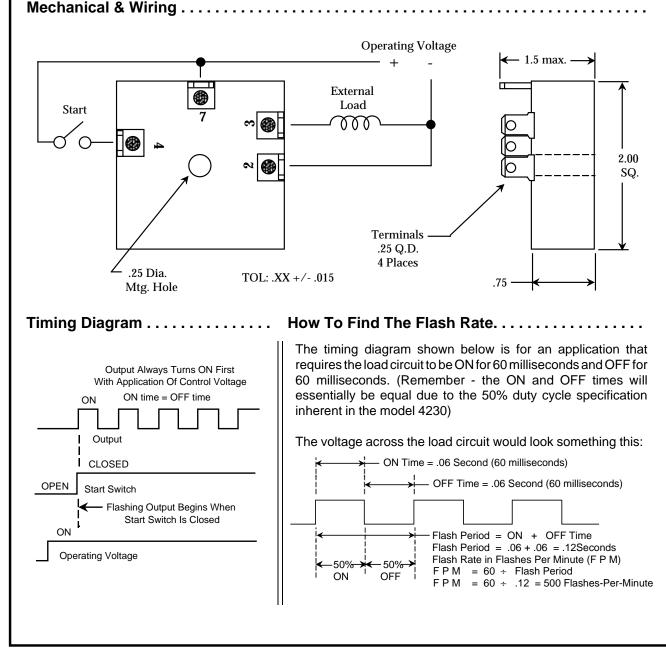
Solid State Timers and Controllers



DC Flasher



Unlike most solid state devices that switch the low or ground side of the DC operating voltage, the model 4230 switches the high side of the DC operating voltage to an external load circuit when switched "ON." The flash rate can be specified over a wide range from 1 flash per minute to 10,000 flashes per minute. The duty cycle of the flashing rate is 50%. The model 4230 also provides a low current starting input circuit which assures that the high current output does not flow through the control switch. Load currents to 5 amperes may be driven with the output of the model 4230. The model 4230 is available only in a fixed flash rate version.



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Solid State Timers and Controllers

Specifications			
Voltage:	12V DC, 24V DC.		
Voltage Tolerances:	±20%.		
Timing Mode:	Flasher.		
Fixed Flash Rate:	te: Factory fixed at any rate from 1 to 10,000 flashes-per-minute (FPM)		
Flash Rate Duty Cycle:	Approximately 50%.		
Tolerances On Fixed Timing:	10%.		
Flash Rate Variation:	Less than 4% over full temperature and voltage range.		
	\pm 1% at stabilized operating voltage temperature.		
Recycle Time:	Operating voltage must be removed for a minimum of 10 milliseconds		
	to assure that the flasher and output circuits are reset.		
Start Switch Characteristics:	Less than 15mA at both 12V and 24V DC. load current does not pass		
	through start switch. Flashing period begins on closure of start switch		
	and terminates when start switch is opened.		
	2mA to 5A inductive with inrush current to 50A for 100 milliseconds.		
Output Switch Characteristics:	1 volt drop maximum across output switch when ON and load current is		
	10A, 1mA leakage when OFF.		
Transient Protection:	Output Switch protected by silicon transient suppressors responding to		
	transients within 1 x 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:	May 18, 1995		

Ordering Information All Models

Part Number	Operating Voltage	Flash Rate	
4230 - 1	12V DC	Specify In Flashes Per Minute	6
4230 - 2	24V DC		Solid State / High Teaster Distance and Solid State / High FLASHER MODEL: 4230

Examples Of Part Numbers.

4230 - 1 - 90 Is a model 4230 with 12V DC operating voltage, with a fixed FPM (Flashes Per Minute) of 90.

Voltage to the load circuit is ON for 333 milliseconds, and OFF for 333 milliseconds.

4230 - 2 - 500 Is a model 4230 with 24V DC operating voltage, with a fixed FPM (Flashes Per Minute) of 500.

Voltage to the load circuit is ON for 60 milliseconds, and OFF for 60 milliseconds.

4230 - 2 - 5000 Is a model 4230 with 24V DC operating voltage, with a fixed FPM (Flashes Per Minute) of 5,000.

Voltage to the load circuit is ON for 6 milliseconds, and OFF for 6 milliseconds.