

Slammer Module (5840)

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The Slammer module (5840) enhances the consistency and speed of activating valves and solenoids. It can repeatedly fire a valve more frequently than what can normally be achieved with a normal I/O supply.

The module “slams” the solenoid valve with a short pulse of:

- 45VDC *or*
- 60VDC *or*
- 75VDC *or*
- 90VDC

and quickly drops to 24VDC for the duration of the output signal. The high-voltage pulse makes the solenoid react faster and more consistently, while the quick drop in voltage saves the solenoid from excessive current, preventing damage to the valve.

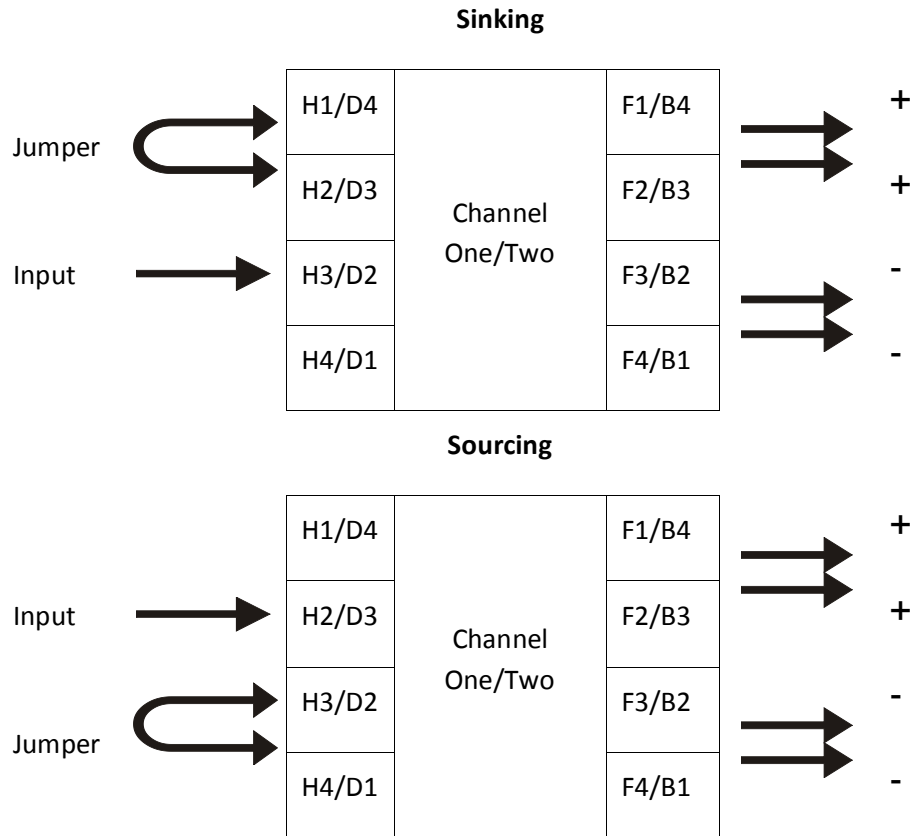
The Slammer is especially useful in open loop flying die applications, where reducing the time between the shear output activating and the shear contacting the material can increase the efficiency of the shear’s reaction time, creating a more accurate cut.

Pin Assignment

CHANNEL ONE		CHANNEL TWO	
Assignment	Pin	Assignment	Pin
24VDC PWR	A1	24VDC PWR	E1
24VDC PWR	A2	24VDC PWR	E2
24VDC PWR	A3	24VDC PWR	E3
24VDC PWR	A4	24VDC PWR	E4
24VDC GND	C1	24VDC GND	G1
24VDC GND	C2	24VDC GND	G2
24VDC GND	C3	24VDC GND	G3
24VDC GND	C4	24VDC GND	G4
Output Pos.	F1	Output Pos.	B4
Output Pos.	F2	Output Pos.	B3
Output Neg.	F3	Output Neg.	B2
Output Neg.	F4	Output Neg.	B1
Input Bias 24VDC	H1	Output Neg.	D4
Input / Sourcing	H2	Input / Sourcing	D3
Input / Sinking	H3	Input / Sinking	D2
Input Bias GND	H4	Input Bias GND	D1

Sinking and Sourcing

Connectors are rated at 4 Amps per line.



Switch Settings


SW1	SW2	Output Voltage	Recover Time	Cycle Per Sec
OFF	OFF	45V	40 ms	10
OFF	ON	60V	75 ms	8
ON	OFF	75V	100 ms	6
ON	ON	90V	150 ms	4

Specifications

Input	24VDC @ 10 Amps
Max Output	8 Amps
Temp Range	0° - 57° C (32° - 135° F)

Recommended Output Voltages

Coil Resistance	Slammer Output Voltage
3-18 ohms	90v
18-24 ohms	75v
24-100 ohms	60v
100-250 ohms	45v

 **Note:** If coil resistance is less than 3 ohms or greater than 250 ohms, there is no advantage to using the slammer and may even create problems. If you need to improve valve reaction time, try increasing slammer output voltage no more than one step per the table above.

LEDs

LT1 = Red = Ready

LT2 = Green = Output On

Interface Drawing

