

## SQ100 Sequencing Module

### Description

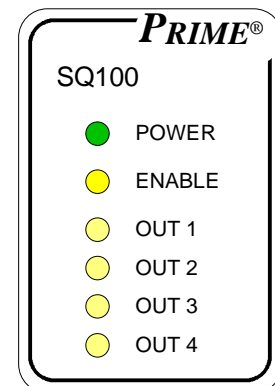
The SQ100 is an electronic sequencing module housed in a plastic enclosure that mounts on an octal relay socket. The SQ100 is a component of the Prime Controls LH100 light testing system. The ENABLE input of the SQ100 connects to a logic output of the system programmable logic controller and the SQ100 outputs connect to the enable inputs of the LH100 light sensing modules. The function of the SQ100 is to stagger the enable signals to the LH100 modules to insure no two units trigger a flash simultaneously.

When the SQ100 receives an enable signal from the PLC, it turns the "A" output ON within 7 microseconds. One millisecond later, the "B" output turns ON. One millisecond after "B", the "C" output turns ON. Then, one millisecond after "C", the "D" output is activated. All outputs remain ON until the PLC signal to the ENABLE input goes inactive.



### Indicators

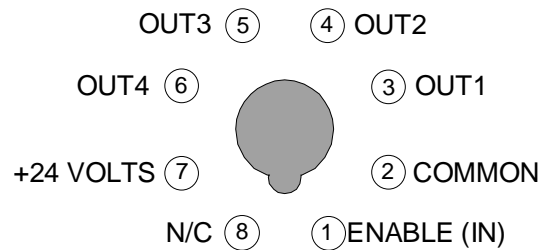
Green POWER LED:	Power applied
Yellow ENABLE LED:	Follows ENABLE
Yellow OUT 1:	Follows OUT1 Output
Yellow OUT 2:	Follows OUT2 Output
Yellow OUT 3:	Follows OUT3 Output
Yellow OUT 4:	Follows OUT4 Output



## Specifications

Mounting:	Plugs into octal relay socket
Connections:	Pin 1 – ENABLE Input Pin 2 – COMMON Pin 3 – OUT1 Pin 4 – OUT2 Pin 5 – OUT3 Pin 6 – OUT4 Pin 7 – +V Pin 8 – No Connection
Operating Voltage:	10 to 24 volts dc
Operating Current:	18 mA plus output load currents
ENABLE Input Voltage:	0 to 20 volts, active high
ENABLE Input Threshold:	Approximately 7.8 volts
OUT Off Level:	0 Volts
OUT On Level:	V+ less 0.3 volts, no load
OUT Output Impedance:	1500 ohms
OUT1 Activation Delay:	Less than 7 microseconds
OUT2 Activation Delay:	1 millisecond from ENABLE
OUT3 Activation Delay:	2 millisecond from ENABLE
OUT4 Activation Delay:	3 millisecond from ENABLE

## Connections



Socket Top View