Introduction to the SCP
The Switch Control Panel (SCP) is an attractive, easy to install fascia-mount switch control panel. A simple four-wire telephone cable can be used to connect the SCP to Signalogic Systems switch machine controllers:
- TSMSC: Tortoise Slow Motion Switch Controller
- TCSC: Twin-Coil Switch Controller

The SCP can be interfaced to other supplier’s controllers such as the Digitrax DS64 and SE8C\(^1\).

Installing the SCP
The SCP is designed to be fascia mounted. Drill a ¾” hole in the fascia to accommodate the connector and wiring. Connect the SCP wiring prior to final mounting. Signalogic Systems recommends 18-24 AWG solid wire (eg. telecom/network wire). The SCP may be adhered to the fascia using hot-glue (i.e. glue gun) or equivalent. If fasteners are desired, pilot holes are located to the sides of the pushbutton that may be drilled out to a 1/8” hole for use with #4 wood screws.\(^2\)

The SCP has a four pin terminal block:
- + 12 VDC Positive power input.
- - GND / Negative power input.
- Z Switch Throw Request.
- C Switch Position Indication. (Correspondence)

Switch Throw Request
The Z terminal connects to the – or + terminal depending on the position of the shunt jumper at the back of the SCP. The shunt is placed between the top two pins from the factory, connecting the Z terminal to the – terminal when the pushbutton is pressed. Moving the shunt to the bottom two pins connects Z to the + terminal when the pushbutton is pressed.

NOTES:
1. See Application Note: AN-101 at www.signalogicsystems.com/switches.shtml
Switch Position Indication
The position of the switch or full crossover is indicated by driving the C terminal. The C terminal voltage will drive the following states according to switch position:

- + voltage  Switch Normal (Green)
- - voltage  Switch Reverse (Yellow)
- Open      Switch in neither position (Green & Yellow)

![Signalologic Systems Switch Controller (TSMSC or TCSC)](image)

Figure 1

Maximum Specifications
- Minimum Power Voltage 5 VDC
- Maximum Power Voltage 18 VDC
- Z terminal current 100 mA

Signalologic Systems
3706 130A Avenue NW
Edmonton, AB T5A 5A4
Canada

Ph: 780-719-3246
Fax: 780-475-6020
Email: support@signalogicsystems.com