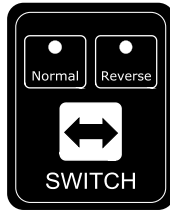


# SCP

## Switch Control Panel



### 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<sup>1</sup>.

### Installing the SCP

The SCP is designed to be fascia mounted. Drill a 3/4" 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.<sup>2</sup>

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.signalogicssystems.com/switches.shtml](http://www.signalogicssystems.com/switches.shtml)
2. McFeely's Black Oxide #4: <http://www.mcfeelys.com/product/0403-PSK/>

## 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)

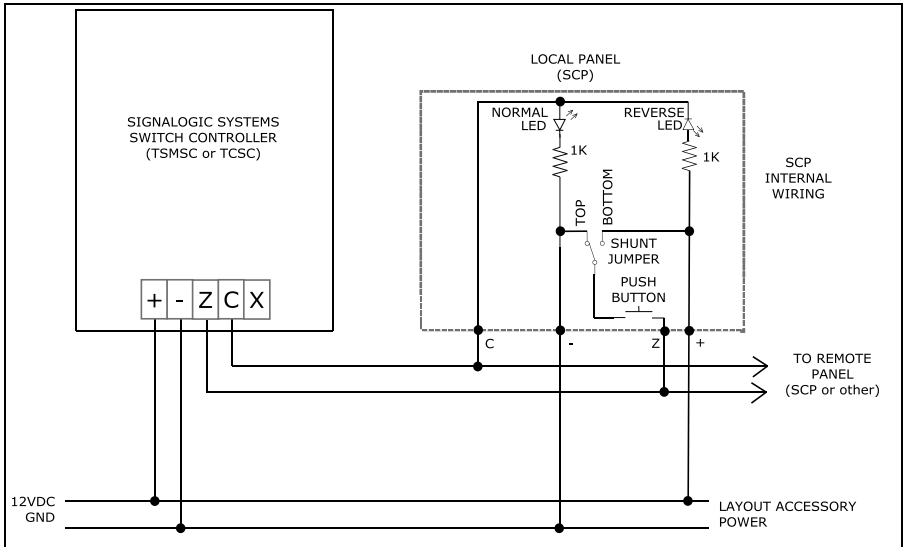


Figure 1

## Maximum Specifications

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

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