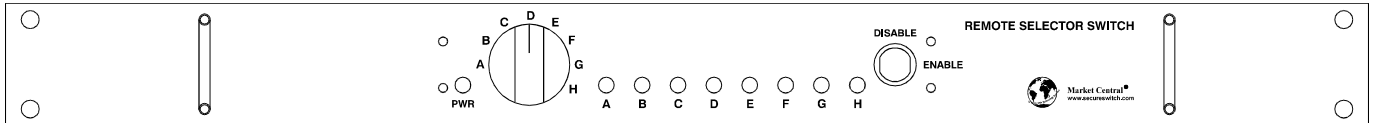




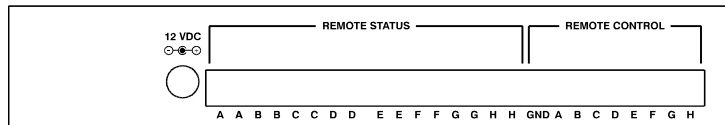
**Market Central<sup>®</sup>**  
[www.seureswitch.com](http://www.seureswitch.com)

**5101732**  
**n:1 SECURESWITCH<sup>®</sup> REMOTE SELECTOR SWITCH**  
 March 2017

**FRONT PANEL VIEW**



**REAR PANEL VIEW**



## 1. Specifications:

**Connectors:** (1) 3.5-mm DC power input jack, center positive  
(1) Nine-position terminal block for remote control connections to n:1 SecureSwitch  
(2) Eight-position terminal blocks for remote status connections to n:1 SecureSwitch

**Switches:** (1) Eight-position rotary switch, (1) Key-lock switch

**Indicators:** (1) LED for power, (8) LEDs for remote status indicators

**Temperature:** 32 to 104°F (0 to +40°C) operating  
14 to 158°F (-10 to +70°C) storage

**Relative Humidity:** up to 80%, non-condensing

**Power:** 100 – 240 VAC, 47 – 63 Hz, wall mount supply, 12 VDC output

**Size:** 19" Wide x 1.72" High x 5.9" Deep (including handles)

**Weight:** 2 lbs including external wall mount supply

**Remote Status "Inputs":** One contact in each pair (A-A thru H-H) is pulled-up to 12 VDC thru approximately 240 ohm resistance to provide wetting current for external dry contacts being monitored. The other contact in each pair is connected to the selector switch's internal signal ground. The resistance of external dry contacts and associated cable not to exceed 100 ohms.

**Remote Control "Outputs":** Contact resistance: 100 milliohms max.; Contact rating: 150 mA @ 250 V (AC/DC) resistive load, 1A non-switching; Reliability: > 10,000 switching cycles

## 2. Introduction:

The n:1 SecureSwitch Remote Selector Switch is designed to provide remote status and control of the n:1 SecureSwitch products. A rotary switch on the front of the Remote Selector Switch is used to select a n:1 SecureSwitch connection and can be enabled or disabled with the key-lock switch. The LEDs show the status of the n:1 SecureSwitch connection. The rear panel terminal blocks are pinned to match the n:1 SecureSwitch Remote Control Inputs and Remote Status Outputs.

## 3. Installation:

To avoid inadvertently changing connection states on the n:1 SecureSwitch device, set the key-lock switch to the DISABLE position, or set the rotary switch to the same position as the current n:1 SecureSwitch connection state.

Connect the 8-position REMOTE STATUS terminal blocks on the Remote Selector Switch to the n:1 SecureSwitch REMOTE STATUS OUTPUTS terminal blocks using straight through cables. Depending on the n:1 SecureSwitch model, some STATUS outputs may not be used.

PIN NAME	PIN NUMBER
A - A	pins 1 & 2
B - B	pins 3 & 4
C - C	pins 5 & 6
D - D	pins 7 & 8
E - E	pins 9 & 10
F - F	pins 11 & 12
G - G	pins 13 & 14
H - H	pins 15 & 16

### 8-pin REMOTE STATUS Terminal Blocks Pinout

(looking at rear panel pin 1 is on left, pins 9 through 16 are on the second 8 pin connector)

The ODD numbered REMOTE STATUS pins are pulled-up to 12 VDC through approximately 240 ohm resistance to provide wetting current for external dry contacts being monitored. The EVEN numbered REMOTE STATUS pins are connected to the Remote Selector Switch's internal signal ground.

Connect the 9-position REMOTE CONTROL terminal block on the Remote Selector Switch to the n:1 SecureSwitch REMOTE CONTROL INPUTS terminal block using straight through cable. Depending on the n:1 SecureSwitch model, some CONTROL inputs may not be used.

PIN NAME	PIN NUMBER
GND	1
A	2
B	3
C	4
D	5
E	6
F	7
G	8
H	9

### 9-pin REMOTE CONTROL Terminal Block Pinout

(looking at rear panel pin 1 is on left)

Apply power to the Remote Selector Switch, using the 12 VDC power supply provided. The PWR LED and the LED matching the n:1 SecureSwitch current connection state should illuminate.

#### 4. Operation:

When the Remote Selector Switch is powered, the PWR LED will be illuminated. The status LED labeled A through H will be illuminated when the associated REMOTE STATUS contacts are shorted. For example if the two REMOTE STATUS contacts labeled C and C are connected, the C status LED will be illuminated. Note: the status LEDs only operate when the Remote Selector Switch is powered. When the n:1 SecureSwitch is first energized, it connects ALL REMOTE STATUS OUTPUTS for about 5 seconds, which will cause ALL Remote Selector Switch status LEDs to be illuminated.

The rotary switch on the Remote Selector Switch connects one of the eight REMOTE CONTROL contacts labeled A through H to the ROMOTE CONTROL contact labeled GND through the key-lock switch. When the key-lock switch is in the DISABLE position, the GND connection is open, the rotary switch is disabled, and the n:1 SecureSwitch can be controlled with the push-button switches on its front panel. When the key-lock switch is in the ENABLE position, the GND is connected, the rotary switch is enabled and can be used to control the n:1 SecureSwitch. If the rotary switch is in a position which is supported by the attached n:1 SecureSwitch, and the key-lock switch is in the ENABLE position, the n:1

SecureSwitch should change to the selected connection state, and the push-button switches on the n:1 SecureSwitch will be inhibited. Note: the n:1 SecureSwitch REMOTE CONTROL INPUTS operate in parallel with the push-buttons on its front panel. ONLY one n:1 SecureSwitch input may be active at a time; if more than one n:1 SecureSwitch input is active, the n:1 SecureSwitch will not change state. To avoid inadvertent switching, the n:1 SecureSwitch input must be active for about 0.5 seconds before switching will occur. Therefore, it is possible to transition across several rotary switch positions without the n:1 SecureSwitch transitioning to each state between the current state and the desired state. For example, with the key-lock switch in the ENABLE position, the user can switch from the A state to the H state without transitioning to any state in between as long as the rotary switch is not allowed to rest in any of the intermediate positions for more than about 0.5 seconds. To ensure that the n:1 SecureSwitch does not transition to any undesired state, simply set the key-lock switch to the DISABLE position before changing the rotary switch. When the rotary switch is in the desired position, set the key-lock switch to the ENABLE position. If the Remote Selector Switch rotary switch is set to a position that is not supported by the attached n:1 SecureSwitch, the attached n:1 SecureSwitch will function as if NO remote inputs are active.

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