

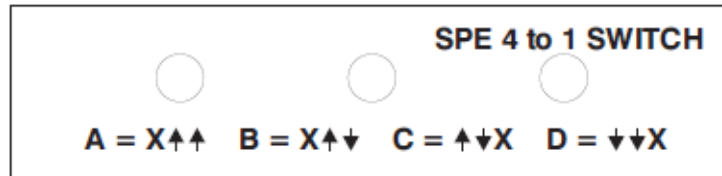


**Market Central<sup>®</sup>**

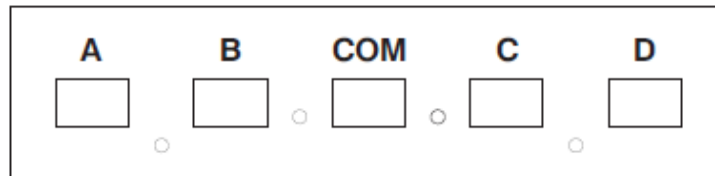
[www.seureswitch.com](http://www.seureswitch.com)

## Non-Powered Single Pair Ethernet Switches

January 2023



Front Panel View (6001450)



Rear Panel View (6001450)

|                              | <b>2 to 1</b> | <b>3 to 1</b> | <b>4 to 1</b> |
|------------------------------|---------------|---------------|---------------|
| <b>Desktop Model Part #</b>  | 6001455       | 6001454       | 6001450       |
| <b>DIN Rail Model Part #</b> | 6001453       | 6001452       | 6001451       |

# 1. Specifications

|                           |   |
|---------------------------|---|
| <b>Connectors:</b>        | 2 position T1 industrial jack AH Single Pair Ethernet connector (female), shielded (3, 4 or 5 depending on model) |
| <b>Switches:</b>          | Front panel toggle switches to select the desired connection state (1, 2 or 3 depending on model)                 |
| <b>Contact Ratings:</b>   | 4A, 50 VAC/60 VDC max   |
| <b>Ethernet Speed:</b>    | 10/100/1000 BASE-T1 (802.3cg, 802.3bw, 802.3bp)<br>Supports PoDL remote power supply over data line (802.3bu)     |
| <b>Temperature:</b>       | -30 to +85°C (storage or operating)   |
| <b>Relative Humidity:</b> | up to 95%, non-condensing   |
| <b>Power:</b>             | Non-Powered   |
| <b>Size:</b>              | 2.4”D x 3.8”W x 1.0”H (desktop models)<br>2.4”D x 4.2”W x 1.0”H (DIN rail models)                                 |
| <b>Weight:</b>            | 0.4 lbs   |

# 2. Introduction

The Single Pair Ethernet (SPE) Switches allow the user to switch a shared SPE connected device or network connection between up to four different devices or networks. Toggle switches on the front panel allow the user to select which port (A, B, C or D on the 4 to 1 model for example) is connected to the Common port on the switch. The user can optionally set the front panel toggle switches on the device to their center position to disconnect all ports on the switch from the Common port.

# 3. Installation

Installation of the SPE Switch is simple – there are no jumpers or settings that need to be configured.

- Set the front panel toggle switches to their center positions to disconnect the Common port on the switch from all other ports.
- Connect the shared SPE device or network to the Common port on the switch using a single pair Ethernet cable.
- Connect the switched devices or networks to the remaining ports on the switch.
- Installation is now complete – there are no power supplies or other connections required in order to operate the switch.

# 4. Operation

To connect a specific port on the SPE Switch to the Common port on the switch, position the front panel toggle switches as indicated on the front panel. The arrow markings on the front panel show which toggle switches to set to the UP position and which to set to the DOWN position to connect the desired port to the Common port. An “X” indicates that the associated toggle switch isn’t needed to make the desired connection thru the SPE switch and may be placed in any position.

For example, the 4 to 1 SPE Switch front panel indicates  $B = X \uparrow \downarrow$  to select the B port connected to the Common port. To do this, set the right most toggle switch to the DOWN position, the middle toggle switch to the UP position and the left most toggle switch can be set to any position without affecting the connection state of the switch. If all of the toggle switches are set to the center position, then the Common port is not connected to any of the other ports.

## 5. Troubleshooting

If data is not passing thru the selected connection on the SPE Switch, try the following:

- verify that the attached cables are fully seated in the connectors on the switch
- switch the front panel toggle switches to a different position and then back to the desired position to verify that all toggle switches are set correctly
- if data is passing between the Common port and certain selected ports but not to other selected ports, try swapping cables from the port(s) that work to the port(s) that do not work

If the SPE Switch is malfunctioning after you've eliminated cable and toggle switch settings as the source of the problem, do not attempt to alter or repair the unit.

Contact Market Central, Inc. at (412) 494-2800

Before you do, make a record of the history of the problem. We will be able to provide more efficient and accurate assistance if you have a complete description of the problem, including:

- the nature and duration of the problem.
- when the problem occurs.
- the components involved in the problem.
- any particular applications that, when used, appears to create the problem or make it worse.

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