

Applying Low Voltage Switches with Powerlink Controllers SLSLVS Series

ABOUT THIS DATA BULLETIN

This data bulletin provides typical application wiring information and diagrams for connecting SLSLVS Series Low Voltage Switches to Schneider Electric Powerlink Lighting Control System. Refer to the installation instructions supplied with your order for more detailed information.

SAFETY PRECAUTIONS

This section contains important safety precautions that must be followed before attempting to install or maintain electrical equipment. Carefully read and follow the safety precautions below.

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E.
- This equipment must be installed and serviced by qualified electrical personnel.
- Turn off all electrical power supplying this equipment before working on or inside the equipment.
- Always use a properly rated voltage sensing device to confirm that power is off.
- Replace all devices, doors, and covers before turning on power to this equipment.

Failure to follow these instructions will result in death or serious injury.

WIRING DIAGRAMS

Figure 1: SLSLVS1 Wiring Diagram

KEY:

- A. Voltage out/Brown
- B. Voltage in/Red

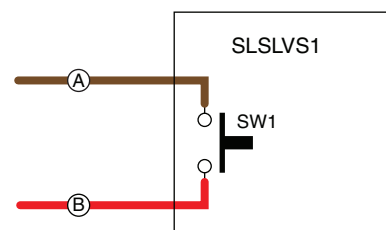


Figure 2: SLSLVS1L Wiring Diagram

KEY:

- A. Voltage out/Brown
- B. Voltage in/Red
- C. (+) Anode/Blue
- D. (-) Cathode/Black

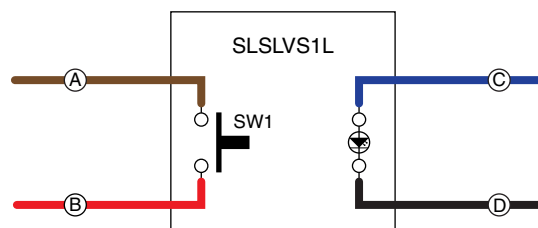


Figure 3: SLSLVS2 Wiring Diagram

KEY:

- A. Voltage out SW1/Brown
- B. Voltage in/Red
- C. Voltage out SW2/Brown-White

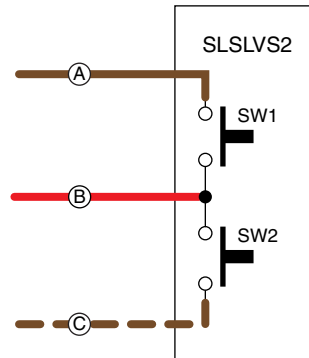
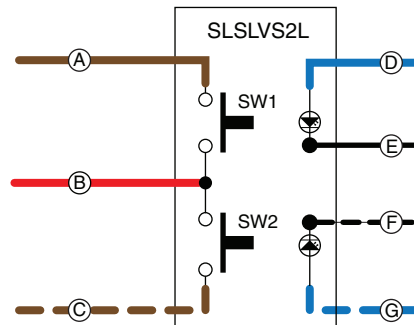


Figure 4: SLSLVS2L Wiring Diagram

KEY:

- A. Voltage out SW1/Brown
- B. Voltage in/Red
- C. Voltage out SW2/Brown-White
- D. (+) Anode LED1/Blue
- E. (-) Cathode LED1/Black
- F. (-) Cathode LED2/Black-White
- G. (+) Anode LED2/Blue-White



POWERLINK NFG3 LIGHTING CONTROL SYSTEM APPLICATIONS

The SLSLVS Series switches listed below are intended for use with the Powerlink NFG3 Lighting Control System.

Compatible Low Voltage Switches include:

- SLSLVS1L
- SLSLVS1
- SLSLVS2L
- SLSLVS2

The diagrams in this application guide provide typical schematic information for using the switches in a Powerlink NFG3 Lighting Control System.

NOTE: Please observe that terminals 9-13 on the controller can be configured for input or output signal, depending on program configuration. The G3 Controller can produce up to 7.5 ma @ 24 VDC for each terminal configured for LED status output.

Figure 5: Powerlink Controller Wiring Compartment and Terminals

KEY:

- 1. Controller
- 2. Wiring Compartment
- 3. Phoenix connector
- A. This terminal is always configured for an input signal of +24VDC
- B. This terminal is always configured to provide a +24VDC signal
- C. This terminal can be configured to deliver a ground signal for a LED indicator or configured to receive a +24VDC input signal

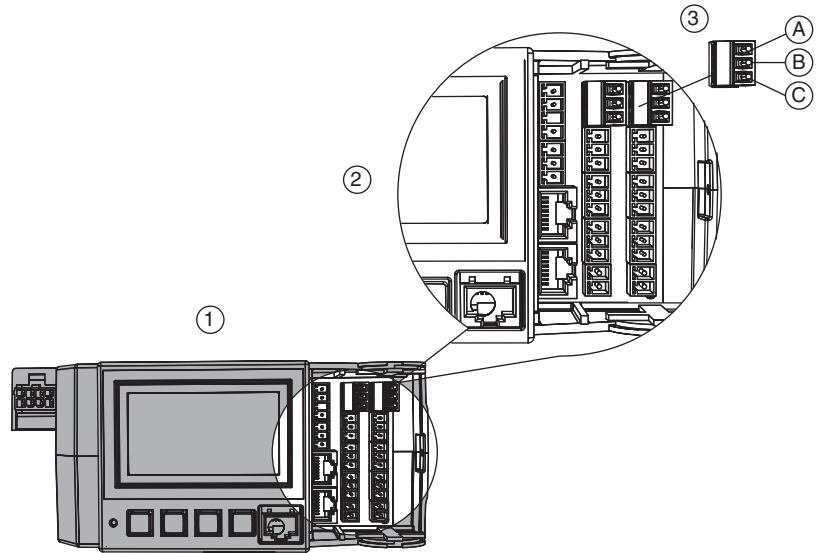


Figure 6: One SLSLVS1 connection with a Powerlink NFG3 Controller

KEY:

- A. +24VDC return back to controller
- B. +24VDC output from controller

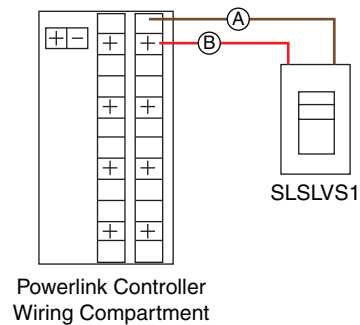
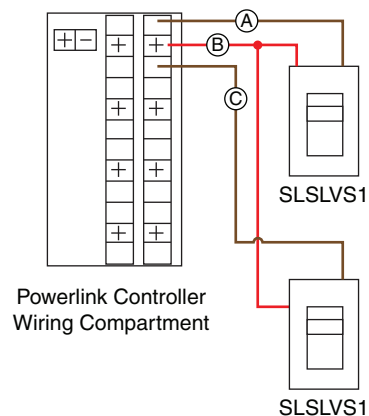


Figure 7: Two SLSLVS1 Switches Connected to a Powerlink NFG3 Controller

KEY:

- A. +24VDC Return back to controller for input 1
- B. +24VDC output of controller
- C. +24VDC Return back to controller for input 2



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Figure 8: One SLSLVS2 Switch Connected to a Powerlink NFG3 Controller

KEY:

- A. +24VDC Return back to controller for input 1
- B. +24VDC output of controller
- C. +24VDC Return back to controller for input 2

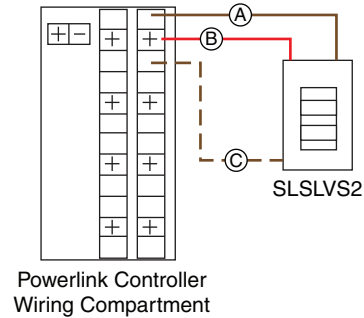


Figure 9: One SLSLVS1L Switch Connected to a Powerlink NFG3 Controller

KEY:

- A. +24VDC return back to controller
- B. +24VDC output of controller
- C. +24 input to LED (anode)
- D. -24 input control to LED (cathode)

NOTE: Input must be configured in the Powerlink controller as a status output for Black cathode wire (D) to operate LED. Refer to your Powerlink controller instruction bulletin.

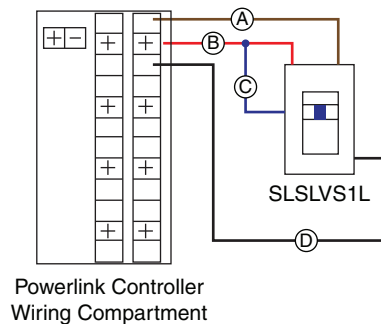
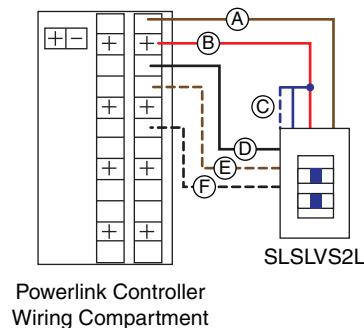


Figure 10: One SLSLVS2L Switch Connected to a Powerlink NFG3 Controller

KEY:

- A. +24VDC Return back to controller for input 1
- B. +24VDC output of controller
- C. +24 Input to LED 1 and 2 (anode)
- D. -24 Input control to LED1 (cathode)
- E. +24VDC Return back to controller for input 2
- F. -24 Input control to LED2 (cathode)

NOTE: Input must be configured in the Powerlink controller as a status output for Black cathode wire (D) and the Black/White cathode wire (F) to operate LEDs. Refer to your Powerlink controller instruction bulletin.



SUPPORT AND SERVICE

Contact the Customer Information Center for technical support by phone at 1-888-778-2733 or e-mail at lightingcontrol.support@us.schneider-electric.com.

Contact your local Schneider Electric service representative for repairs or service to your network.

You may also find helpful information on our web site at www.Schneider-Electric.us.

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