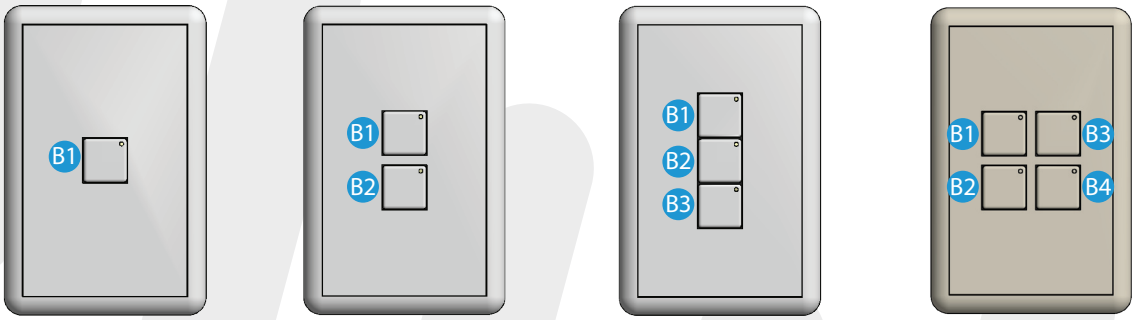
touch-plate®
LIGHTING CONTROLS

Royal Wiring Diagram for Single Pole Single Throw (SPST) Systems

Use the following to wire a Royal Switch. SPST systems are Touchplate and similar two-wire systems.
Each system will have different components and this document does not show all possible connections.

Button Layout

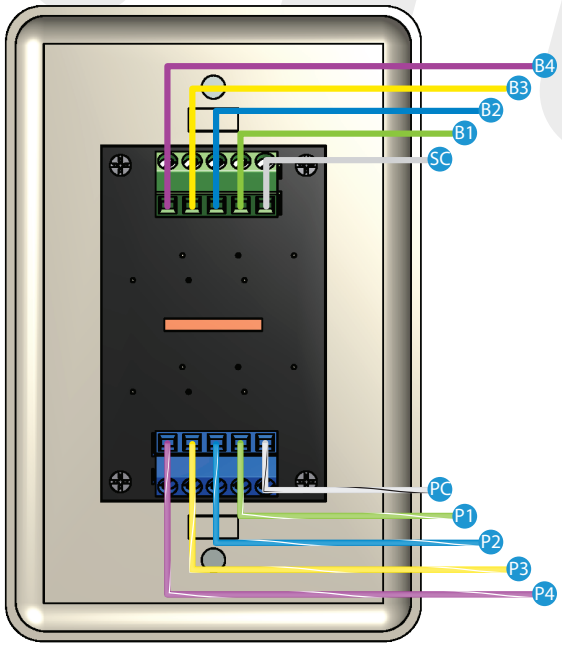


Switch and LED Wiring

- Switch terminals are green; pilot terminals are blue
- Recommended wire size is 16-18 AWG
- 'SC' stands for switch common; 'PC' stands for pilot common

Powering the Station

- **LED Voltage Range**: 10 - 24VDC; use of a separate power supply will require the use of separate commons.
- **Draw on LED Resistor**: Max of 4mA per LED.
- **Shared Common**: When using a single common to power both the switches and LEDs, a wire is needed to connect both common terminals together.
- **Separate Commons**: When using separate commons to power the switches and LEDs, the common terminals will be wired separately.



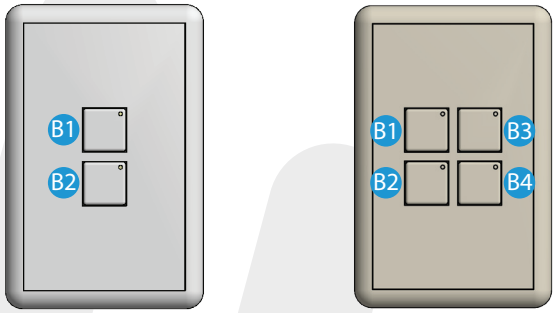
4822 Projects Dr, Fort Wayne, IN
www.touchplate.com
Ph: 260.426.1565 Fax: 260.426.1442
Email: support@touchplate.com

touch-plate®
LIGHTING CONTROLS

Royal Wiring Diagram for Single Pole Double Throw (SPDT) Systems

Use the following to wire a Royal Switch. Each system will have different components and this document does not show all possible connections. SPDT systems are GE, Remcon and similar three-wire systems.

Button Layout

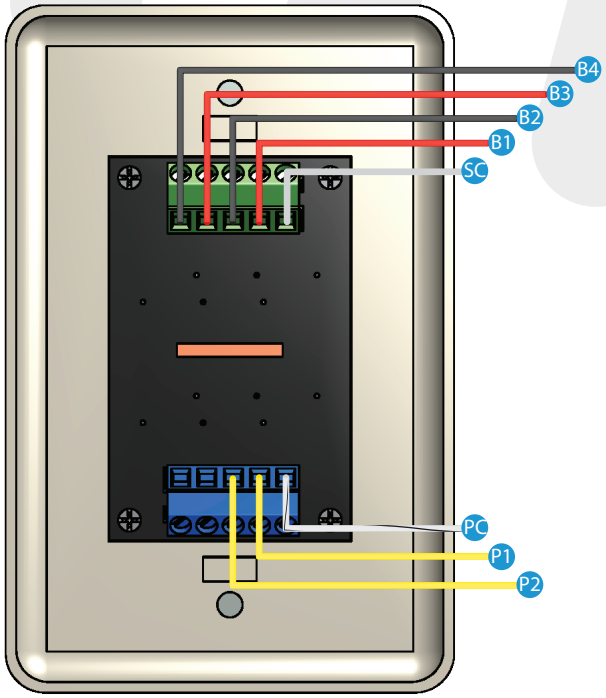


Switch and LED Wiring

- Switch terminals are green; pilot terminals are blue
- Recommended wire size is 16-18 AWG
- 'SC' stands for switch common; 'PC' stands for pilot common

Powering the Station

- **LED Voltage Range**: 10 - 24VDC; use of a separate power supply will require the use of separate commons.
- **Draw on LED Resistor**: Max of 4mA per LED.
- **Shared Common**: When using a single common to power both the switches and LEDs, a wire is needed to connect both common terminals together.
- **Separate Commons**: When using separate commons to power the switches and LEDs, the common terminals will be wired separately.



4822 Projects Dr, Fort Wayne, IN
www.touchplate.com
Ph: 260.426.1565 Fax: 260.426.1442
Email: support@touchplate.com