

# SW830-2 Multi-purpose Switch / Control Panel

Software Ver. C

## INSTALLATION

It is essential to install the unit properly to ensure safe and reliable operation. Please read through all instructions thoroughly and carefully before installing the unit. The correct mounting and wiring is the key to the effectiveness of SW830-2 switch. Installers must read and follow installation instructions and warnings in the manual from original manufacturer. The vehicle operator should verify this system is fastened to the vehicle securely and is functioning properly. Failure to follow all safety precautions and instructions may void warranties, cause personal injury and/or vehicle damage, including fire.



Control Panel

## MOUNTING

Mount the power module in a location that is not exposed directly to weather elements such as the driver compartment firewall, below the seat, or in the trunk; and away from any air bag deployment areas. Ensure that all wiring harness connections are made prior to connecting the harness to the power module.

Assemble the included panel stand and secure it onto a desired smooth surface via suction cup, where it can be easily accessed by the vehicle operator. If no smooth surface is present, use the included adhesive base to assist the mounting; ensure that the surface is cleaned thoroughly before applying the adhesive base onto the mounting surface. Leave adhesive to set for at least 24hr before mounting the suction cup on to the base. Once the mounting stand is fitted, secure the control panel tightly onto the stand.

**WARNING:** Do not interfere with the proper operation of the vehicle airbag deployment system.

## WIRING

Use wires that are capable of handling the required current. Route the wires properly to prevent wear, overheating and interference with air bag deployment. Ensure that all connections are tight and double check wiring before connecting to the vehicle battery.

**SW1, SW2, SW3, SW4** : +VDC Output Connections, each connects to one auxiliary device / relay / input up to 0.1 Amps max.

**SW5, SW6, SW7** : +VDC Output Connections, each connects to one auxiliary device / relay / input up to 0.2 Amps max.

**BLACK** ..... -GND

**RED** ..... +VDC

**YELLOW** ..... SW1

**ORANGE** ..... SW2

**PURPLE** ..... SW3

**GREEN** ..... SW4

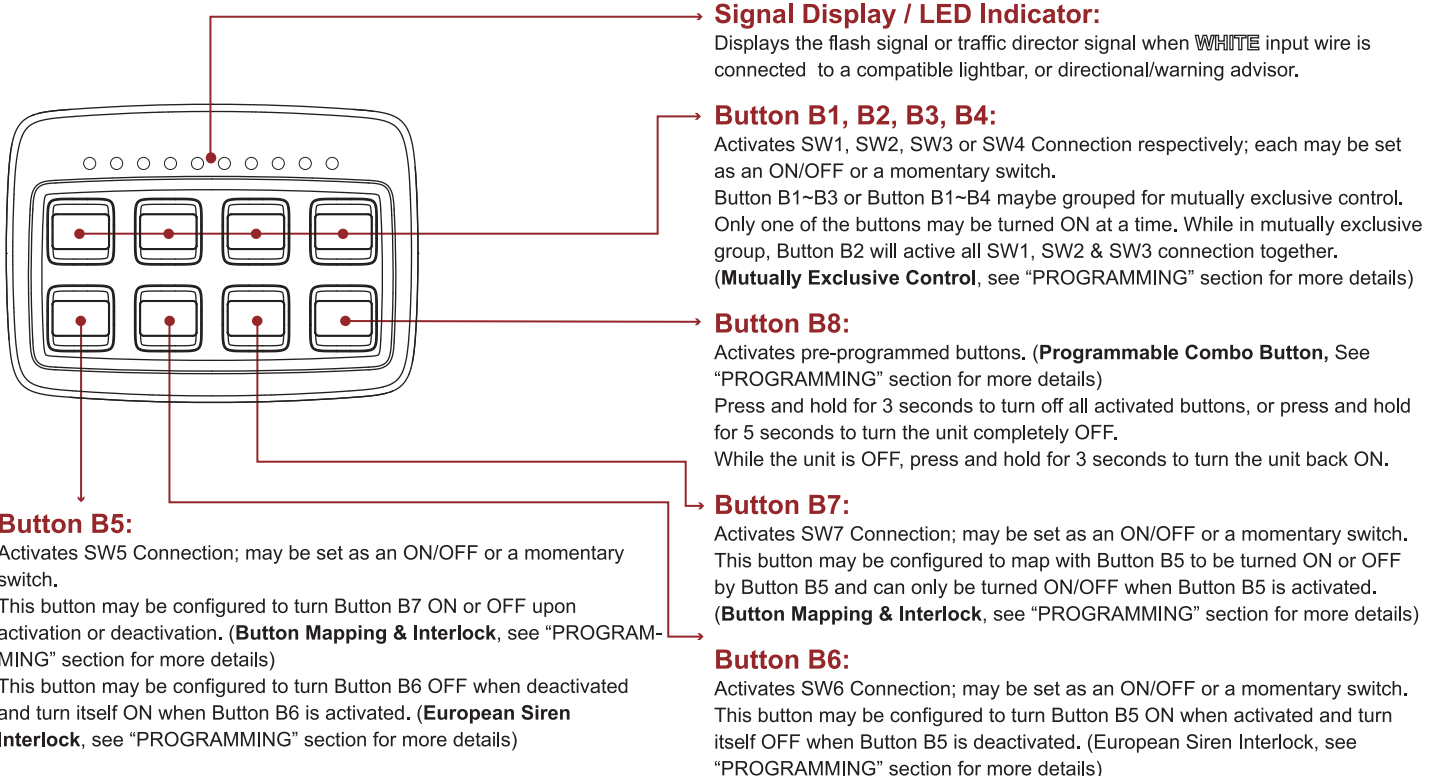
**BLUE** ..... SW5

**BROWN** ..... SW6

**GRAY** ..... SW7

**WHITE** ..... LED Display Signal

## CONTROL PANEL / FUNCTION



## PROGRAMMING

### Programmable Combo Button:

Button B8 may be used to activate pre-programmed buttons from Button B1 to B7.

To set-up pre-programmed buttons:

1. Press and hold **B1** and **B4** for 3 seconds to enter PROGRAMMING MODE.  
Top Left LED Indicator x4 will light to indicate that you are in PROGRAMMING MODE.
2. While in PROGRAMMING MODE, press and hold **B8** for 3 seconds to start button binding.
3. While Top Right LED Indicator x4 is blinking, turn ON the desired button(s) to bind with Button B8.
4. Once set, press and hold **B8** for 3 seconds to save the selected buttons then press and hold **B1** and **B4** for 3 seconds to exit PROGRAMMING MODE.

### ON/OFF or Momentary Button Setting:

Button B1 to B7 may be set as an ON/OFF or a momentary activation.

1. Press and hold **B1** and **B4** for 3 seconds to enter PROGRAMMING MODE.  
Top Left LED Indicator x4 will light to indicate that you are in PROGRAMMING MODE.
2. While in PROGRAMMING MODE, turn ON or OFF the desired button for the following scenario:

Button B1~B7 Red Backlit	Button Mode
OFF	ON/OFF (default)
ON	Momentary

3. Once set, press and hold **B1** and **B4** for 3 seconds to exit PROGRAMMING MODE.

### Mutually Exclusive Control:

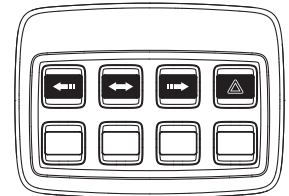
Button B1~B3 or Button B1~B4 may be grouped for mutually exclusive control. Only one of the buttons may be turned ON at a time.

1. Press and hold **B1** and **B4** for 3 seconds to enter PROGRAMMING MODE.  
Top Left LED Indicator x4 will light to indicate that you are in PROGRAMMING MODE.
2. While in PROGRAMMING MODE, press Button B1 or B2 for 3 seconds to turn ON/OFF its green backlit.

Green Backlit	Mutually Exclusive Group
Button B1 ON	Button B1~B3
Button B2 ON	Button B1~B4
Button B1&B2 OFF	Independent Controlled (default)

3. Once set, press and hold **B1** and **B4** for 3 seconds to exit PROGRAMMING MODE.

**Note:** While in mutually exclusive group, Button B2 will active all SW1, SW2 & SW3 connection together.  
When configuring as Mutually Exclusive Group, these buttons must be configured as "ON/OFF switch".



Application Example

### European Siren Interlock:

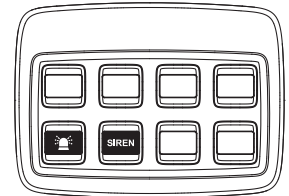
The Button B5 and B6 may be configured so that Button B5 turns Button B6 OFF when deactivated and turn itself ON when Button B6 is activated. This configuration is commonly used for that Button B5 is used as the primary visual warning device and Button B6 is use as a siren activation.

1. Press and hold **B1** and **B4** for 3 seconds to enter PROGRAMMING MODE.  
Top Left LED Indicator x4 will light to indicate that you are in PROGRAMMING MODE.
2. While in PROGRAMMING MODE, press Button B6 for 3 seconds to turn ON/OFF the green backlit.

Button B6 Green Backlit	Mode
OFF	Interlock OFF (default)
ON	Interlock ON

3. Once set, press and hold **B1** and **B4** for 3 seconds to exit PROGRAMMING MODE.

**Note:** When configuring as Button mapping mode, Button B5 and Button B6 must be configured as "ON/OFF switch".



Application Example

### Button Mapping & Interlock:

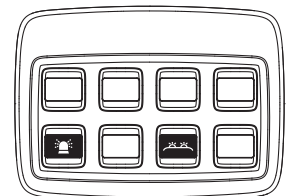
Button B7 may be set to activate and deactivate by Button B5. In this setting, Button B7 can only be turned ON/OFF when Button B5 is activated.

1. Press and hold **B1** and **B4** for 3 seconds to enter PROGRAMMING MODE.  
Top Left LED Indicator x4 will light to indicate that you are in PROGRAMMING MODE.
2. While in PROGRAMMING MODE, press Button B5 for 3 seconds to turn ON/OFF the green backlit.

Button B5 Green Backlit	Mode
OFF	No Button Mapping (default)
ON	Button B7 Mapped with Button B5

3. Once set, press and hold **B1** and **B4** for 3 second to exit PROGRAMMING MODE.

**Note:** When configuring as Button mapping mode, Button B5 and Button B7 must be configured as an "ON/OFF Switch".



Application Example

### LED Signal Display Mode Change:

The 10-LED Signal Display may display either the Lightbar flash signal or the directional / warning advisor flash signal. To change the display mode:

1. Press and hold **B1** and **B4** for 3 seconds to enter PROGRAMMING MODE.  
Top Left LED Indicator x4 will light to indicate that you are in PROGRAMMING MODE.
2. While in PROGRAMMING MODE, press Button B8 to turn ON/OFF the red backlit.

Button B8 Red Backlit	Mode
OFF	Directional / warning advisor flash signal (default)
ON	Lightbar flash signal

3. Once set, press and hold **B1** and **B4** for 3 seconds to exit PROGRAMMING MODE.