

SW830

Multi-purpose Switch / Control Panel w/ Power Module



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 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.

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.

Note: Avoid mounting the switch unit with wiring harness exiting downward. This may cause harness connection to fall off during harsh or sudden impact.

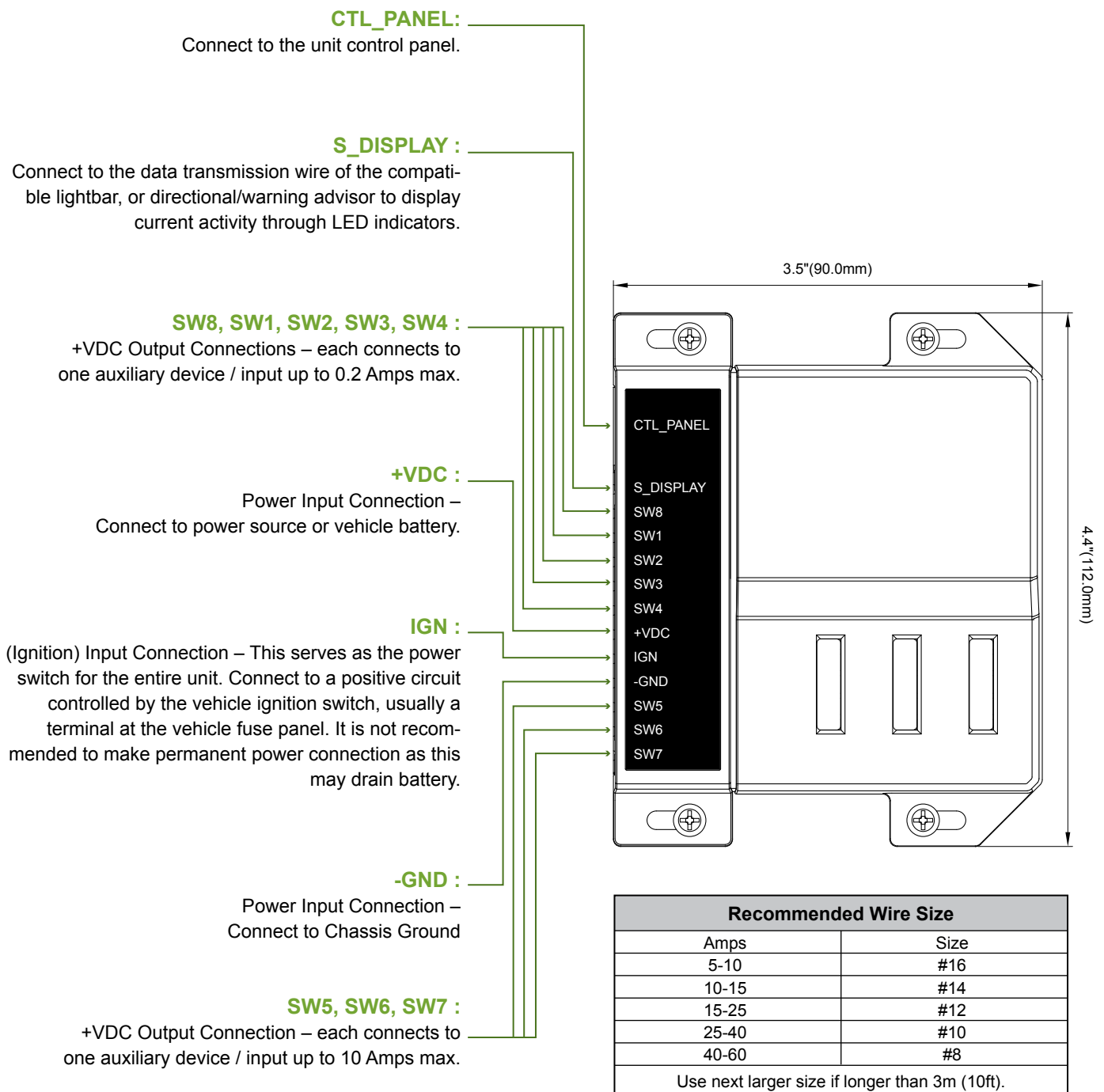
WIRING

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.

ELECTRICAL CONNECTIONS

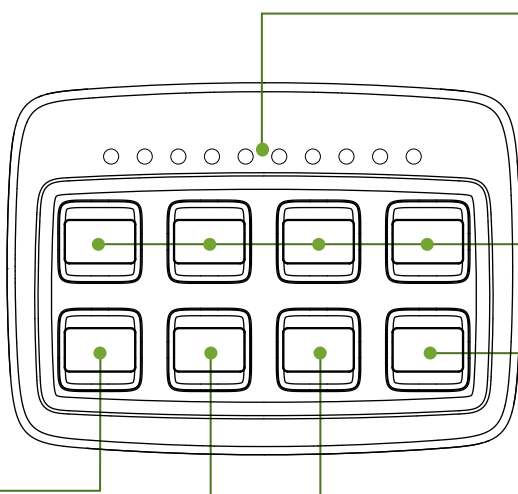
Electrical connections to the unit are made by using block plugs and screw terminals. Route all wiring to the power module and secure onto block plug terminals, then plug onto the power module. The plug can be easily removed without unwiring when the unit requires servicing. The power supply for the fused unit (12-P plug) must be capable of delivering peak currents up to 12A for adequate short circuit protection and proper operation. It is recommended to wire directly to the vehicle battery.

WARNING: ensure that all wires are firmly secured onto the block plug, and plug is firmly secured onto the power module.



CONTROL PANEL / FUNCTION

To turn on the control panel, apply positive voltage to the IGN (Ignition) terminal at the rear of the power module.



Signal Display / LED Indicator:

Displays the flash signal or traffic director signal when S_DISPLAY input is connected to a compatible lightbar, or directional/warning advisor. (**Display Mode Change**, see “PROGRAMMING” section for more details)

Button B1, B2, B3, B4:

Activates SW1, SW2, SW3 or SW4 Connection respectively; each may be set as an ON/OFF or a momentary switch.

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. While in mutually exclusive group, Button B2 will activate all SW1, SW2 & SW3 connection together. (**Mutually Exclusive Control**, see “PROGRAMMING” section for more details)

Button B6:

Activates SW6 Connection; may be set as an ON/OFF or a momentary switch.

This button may be configured to turn Button B5 ON when activated and turn itself OFF when Button B5 is deactivated. (**European Siren Interlock**, see “PROGRAMMING” section for more details)

Button B5:

Activates SW5 Connection; may be set as an ON/OFF or a momentary switch.

This button may be configured to turn Button B7 ON or OFF upon activation or deactivation. (**Button Mapping**, see “PROGRAMMING” section for more details)

This button may be configured to turn Button B6 OFF when deactivated and turn itself ON when Button B6 is activated. (**European Siren Interlock**, see “PROGRAMMING” section for more details)

Button B8:

Activates SW8 Connection; may only be set as an ON/OFF switch.

Press and hold for 3 seconds to turn off all activated buttons, or press and hold for 5 seconds to turn the backlit and the unit completely OFF.

While the unit is OFF, press and hold button B8 for 3 seconds to turn the unit and the backlit back ON.

Button B7:

Activates SW7 Connection; may be set as an ON/OFF or a momentary switch.

This button may be configured to map with Button B5 to be turn ON or OFF by Button B5. (**Button Mapping**, see “PROGRAMMING” section for more details)

PROGRAMMING

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.

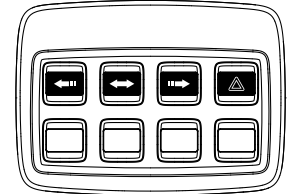
PROGRAMMING (Cont'd)

Mutually Exclusive Control:

Button B1~B3 or Button B1~B4 maybe 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)



Application Example

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.

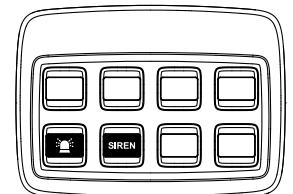
When configuring as Mutually Exclusive Group, these buttons must be configured as "ON/OFF switch".

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



Application Example

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

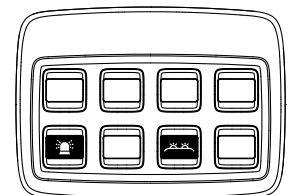
Note: When configuring as Button mapping mode, Button B5 and Button B6 must be configured as "ON/OFF switch".

Button Mapping:

Button B7 may be set to activate and deactivate by Button B5.

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



Application Example

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".

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.