# Installation and Operation Instructions 450R-L6 Remote Switch 

The 450R-L6 Remote Switch has 6 -way light control. One way Max Current is 40 Amps , while the other five way currents are 15 Amps.


## WARNING!

Failure to install or use this product according to manufacturers recommendations may result in property damage, serious injury, and/or death to those you are seeking to protect!


Do not install and/or operate this safety product unless you have read and understand the safety information contained in this manual.

1. Proper installation combined with operator training in the use, care, and maintenance of emergency warning devices are essential to ensure the safety of you and those you are seeking to protect.
2. Exercise caution when working with live electrical connections.
3. This product must be properly grounded. Inadequate grounding and/or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire.
4. Proper placement and installation are vital to the performance of this warning device. Install this product so that output performance of the system is maximized and the controls are placed within convenient reach of the operator so that s/he can operate the system without losing eye contact with the roadway.
5. Do not install this product or route any wires in the deployment area of an air bag. Equipment mounted or located in an air bag deployment area may reduce the effectiveness of the air bag or become a projectile that could cause serious personal injury or death. Refer to the vehicle owner's manual for the air bag deployment area. It is the responsibility of the user/operator to determine a suitable mounting location ensuring the safety of all passengers inside the vehicle particularly avoiding areas of potential head impact.
6. It is the responsibility of the vehicle operator to ensure during use that all features of this product work correctly. In use, the vehicle operator should ensure the projection of the warning signal is not blocked by vehicle components (i.e., open trunks or compartment doors), people, vehicles or other obstructions.
7. The use of this or any other warning device does not ensure all drivers can or will observe or react to a warning signal. Never take the right-of-way for granted. It is your responsibility to be sure you can proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, or walking on or around traffic lanes.
8. This equipment is intended for use by authorized personnel only. The user is responsible for understanding and obeying all laws regarding warning signal devices. Therefore, the user should check all applicable city, state, and federal laws and regulations. The manufacturer assumes no liability for any loss resulting from the use of this warning device.

## Specifications:

Standby Current: 85 mA
Operation Temperature: $-40^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right)$ to $+77^{\circ} \mathrm{C}\left(170^{\circ} \mathrm{F}\right)$
Dimensions (HWL):
Switch Box: $1.46^{\prime \prime} \times 5.22^{\prime \prime} \times 5.33 "$
Controller: $0.94 " \times 1.97^{\prime \prime} \times 3.94$ "

Weight (approx):
Switch Box: 1.1 lbs
Controller: 0.2 lbs
Mounting:
Switch Box: 4-hole flange mounting on base
Controller: 2 mounting holes provided on controller bracket

## Handheld Controller Panel:



Figure 1
Light Control Buttons A-F: Pressing any of the light control buttons (Figure 1) will turn on that corresponding light control, indicated by a RED backlight to the button. While on, pressing the button again will turn off the corresponding light control, indicated by the RED backlight turning off as well. (Light Control Output mode can be set up via programming. For details, check Programming Settings)
DIP Switch Features:

|  |  | DIP SWITCH DOWN | DIP SWITCH UP |
| :--- | :--- | :--- | :--- |
| DIP | Switch1 | Buttoon Press Beep <br> ON | Button Press Beep <br> OFF |
| DIP | Switch2 | Sleep Mode ON | Sleep Mode OFF |
| DIP | Switch3 | No Function | No Function |
| DIP | Switch4 | No Function | No Function |

Sleep mode: When control head is left untouched for 10 minutes, with all outputs backlighting is turned off. To
"wake" the control head up, touch any button.
Fuse Introduction \& Self-Diagnostic:


Figure 2
Figure 2 shows the light control fuse box and fuse indicator lights. The max output of light controls A, B, D, E, and F is 15 Amps . The max output of light control C1 and C2 is 20 Amps when combined together would be 40 Amps total current.

The light control also has a self-diagnostic function. If a light control button is pressed while it has no output, the handheld controller buzzer will continuously make sound and the button's red indicator light will blink.

The following are Provided In The Box:

| Quantity | Part Number | Description |
| :---: | :---: | :--- |
| 1 | $140-1471-00$ | Parts Bag |
| 1 | $955-0232-00$ | Box |
| 1 | $920-0561-00$ | Install Instructions |
| 1 | $905-2487-00$ | Legends Label |
| 1 | - | Remote Switch Box |
| 1 | - | Remote Switch Control Head |

Programming:

1. Turn OFF all the light control buttons. This will put the handheld controller in Standby mode.
2. Press the (C) and (F) buttons together for at least 2 seconds and the handheld controller backlight will begin to blink BLUE. Release the two buttons.
3. The RED button indicator light for buttons A-F is in current Setting Mode. Press the button for which you want to change modes. The following modes are available to choose from:

Solid indicator light = MOMENTARY Mode Slow flashing light = ON/OFF Mode Normal flashing light = TIME OUTPUT Mode Quick flashing light = LEVEL OUTPUT Mode

Progressive Switching must use buttons ABC. Also, when using this function it cancels out all previous preset functions. Memory Function if power is turned off with buttons/functions still on, the buttons will remain on when the power is reconnected.
4. Press the ( $C$ ) and ( $F$ ) buttons together again for at least 2 seconds and the handheld controller backlight will stop blinking BLUE. This exits the Programming Mode and the current setting with be saved.

## Connections:



Notes:

## Manufacturer Limited Warranty Policy:

Manufacturer warrants that on the date of purchase this product will conform to Manufacturer's specifications for this product (which are available from the Manufacturer upon request). This Limited Warranty extends for Sixty (60) months from the date of purchase.

DAMAGE TO PARTS OR PRODUCTS RESULTING FROM TAMPERING, ACCIDENT, ABUSE, MISUSE, NEGLIGENCE, UNAPPROVED MODIFICATIONS, FIRE OR OTHER HAZARD; IMPROPER INSTALLATION OR OPERATION; OR NOT BEING MAINTAINED IN ACCORDANCE WITH THE MAINTENANCE PROCEDURES SET FORTH IN MANUFACTURER'S INSTALLATION AND OPERATING INSTRUCTIONS VOIDS THIS LIMITED WARRANTY.

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This Limited Warranty defines specific legal rights. You may have other legal rights which vary from jurisdiction to jurisdiction. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages.

## Product Returns:

If a product must be returned for repair or replacement*, please contact our factory to obtain a Return Goods Authorization Number (RGA number) before you ship the product to Code $3 ®$, Inc. Write the RGA number clearly on the package near the mailing label. Be sure you use sufficient packing materials to avoid damage to the product being returned while in transit.
 handling, and shipping: nor for the handling of products returned to sender after the service has been rendered.

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