

# strands®

-lighting division

## MANUAL

### CRUISE LIGHT RELAY BOX AND WIRELESS CONTROLLER



#### FUNCTION DESCRIPTION - WIRELESS CONTROLLER

Power: USB-C (for fixed installation) or 4x AAA (wireless).  
9 buttons by Amber, 8 buttons by White, 1 button by Blue.

##### ON/OFF

Wireless controller ON/OFF switch on right side of controller.

##### ON/OFF ROOF BAR

Separate ON/OFF button for Roof bar's.

##### PATTERN ROOF BAR

PATTERN select button.

##### CRUISE LIGHT

Cruise mode(steady-on).

##### APPROVED BY DAY

BY DAY approved mode (higher intensity).

##### APPROVED BY NIGHT

BY NIGHT approved mode (lower intensity).

##### DIMMING FUNCTION

When in used, the DIMMING is active on a specific flash pattern. However, by day/by night/cruise, these patterns can't be controlled by DIMMING.

##### LEFT, CENTER, RIGHT

These buttons are used for traffic advising, flashing from right to left, from centre and out, and left to right.

Roof bar pattern will be shown on the surrounding LED's on the wireless control, and for most of the functions, there will be a button backlight on the active functions.

##### CHANNEL 1 - CHANNEL 4 ON/OFF

Separate ON/OFF button for each channel's power out.

##### CHANNEL 1 - CHANNEL 4 PATTERN

Separate PATTERN select button for each channel.

##### MASTER ON/OFF

When turned "OFF", all the lights will be turned off. When turned "ON", all the lights will return to the same status before turning off (memory function). Pressing 3 seconds will turn on all channels.

##### WHEN NOT IN USE

The surrounding LED's will turn off after 10 seconds.  
After 15 seconds also the button backlights will be off.  
The frequency is 443MHz. (TTL).  
Range:10-15 meter for controller.( It depends on surrounding)

Part no. 850208

Contact us if you need support: [support@strands.se](mailto:support@strands.se) or +46(0)320-450450



[www.strands.se](http://www.strands.se)  
[www.strandseurope.com](http://www.strandseurope.com)

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## FUNCTION DESCRIPTION - RELAY BOX

Voltage: 10-35V DC  
Channels: 6, total 700W. 2x 150W (15A) intended for Cruise Light  
Roof bar. 4x 100W (10A) for any type of lighting.  
Input ports:

### MAIN POWER

Incoming power VDC +/-

### ON/OFF BY SIGNAL CABLE

Choose to control the relay functions by cable, by connecting a signal cable(+VDC) to "ON/OFF Roof Bar or CH1-4#", this will activate the different channels. The output is activated when the signal cable is continuously connected to the "ON/OFF" connection. Activation by cable will override the wireless controller.

### ROOF BAR QUICK INTERFACE

Quick roof bar function wire connection port, to control by cable

### PATTERN

Pattern can be changed by additional cable connection.

### OUTPUT PORTS:

6 different Channels

**L1#, L2# FOR ROOF BARS**

**Data A:** White cable

**Data B:** Blue cable

**Synchronize:** Yellow cable(If Needed)

Voltage: 10-35V DC  
Each channel, max 150W

**Ch1# to Ch4# FOR ALL TYPE OF**

**LIGHTING** Voltage: 10-35V DC

Each channel, max 100W

### TROUBLESHOOTING:

- There are some batch of Cruise light Roof bar which might have to follow instruction for Data A and Data B as Reverse (**Data A:** Blue cable **Data B:** White cable)
- Please do not connect white cable and blue cable to Main power( Positive Terminal) directly it most likely damage the Roof bar
- If controller stop sending signal to relay box please contact (Support@strands.se) for reprogramming of controller.

### WARNING!

Be careful while opening the top cover, which connected to an antenna cable. On the circuit board, there are switches for positive (+) and negative (-) pattern changing setting. Do not short circuit or overload the LED outputs, this may lead to permanent damage.

### WATERPROOF

Water sealed lid and rubber gaskets protecting the cable entries.

### READ THIS BEFORE INSTALLATION

READ ALL INSTRUCTIONS AND STUDY DIAGRAMS BEFORE INSTALLING YOUR NEW PRODUCT!

- Pay attention to positive and negative polarity when installing batteries
- Always use new batteries and never mix new and old batteries in the device.
- When the sensitivity decreases, or the usable distance becomes smaller please replace the batteries
- If the control box is not being used for a long period, we suggest you remove the batteries.
- The control unit is not waterproof, do not allow control unit to get wet or use in a moist environment.
- Maximum operating temperature 50°C.
- Please recycle the batteries in a suitable way when expired.

### LEGAL MOUNTING

Check with state or local authorities for laws governing usage and proper mounting of your new lights.

### TAKE CARE OF YOUR PRODUCT

Keep the product clean. Dirt may shorten the products lifetime. We recommend using lukewarm water and alkaline degreasing. Follow the degreasing instructions carefully and rinse off gently with cold or lukewarm water on low pressure.

### WARNING!

Strong chemicals should not be used on the product. If you accidentally get strong chemicals on the product, rinse off immediately, use plenty of water so that no chemicals remain in any joint. Some chemicals have a small amount of solvent in them, this can dissolve sealing adhesives and compromise the product's waterproofness. Some chemicals pull out liquid from plastic and rubber-based components, which makes the plastic or rubber brittle and bursts more easily. Be careful not to use high water pressure close up on the product. If you use high water pressure at short distances, most products find it difficult to close out the water.

### WARNING!

Do not use higher volts than the product description states. This product becomes hot under continuous use. Don't remove or touch the casing for at least 30 minutes after turning the lamp off.

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