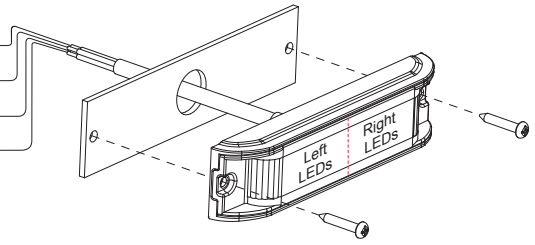


## Surface Mount

- To Chassis Ground: .....**BLACK**
- To +VDC (fuse @ 3A) for Memory2 .....**RED**
- To +VDC (fuse @ 3A) for Memory1 .....**WHITE**
- For Synchronization & Function selection ...**YELLOW**

**NOTE:** **RED** wire has priority over **WHITE** wire when both wires are activated.



## Operation

This lighthouse is designed with 2 sets of memory to allow instant switch between 2 pre-set flash patterns with a simple switch of a button (user-supplied). Connect **BLACK** wire to Ground, and apply +VDC to **WHITE** wire to activate Memory1 or to **RED** wire to activate Memory2.

### Step 1

#### Select Function & Flash Pattern

- a. Activate Memory1 by applying +VDC to **WHITE** wire.
- b. While **WHITE** wire is activated, momentarily apply +VDC to **YELLOW** wire:
  - once for <1 second for next flash pattern.
  - quickly three times for reset to default.



Warning



Steady & Warning



Full Steady

FP#1~13

FP#14

FP#15

| Function         | FP# | Flash Pattern    |     |
|------------------|-----|------------------|-----|
| Warning          | 1   | Double (default) | R65 |
|                  | 2   | Single           | 2Hz |
|                  | 3   | Triple           | 2Hz |
|                  | 4   | Quad             | 2Hz |
|                  | 5   | Random           | -   |
|                  | 6   | Single           | SAE |
|                  | 7   | Double           | SAE |
|                  | 8   | Quad             | SAE |
|                  | 9   | Quint            | SAE |
|                  | 10  | Mega             | -   |
|                  | 11  | Ultra            | SAE |
|                  | 12  | Single-Quad      | -   |
|                  | 13  | Single H/L       | -   |
| Steady & Warning | 14  | Steady&Warning   | -   |
| Full Steady      | 15  | Full Steady      | -   |

### Step 2

#### Select Mode

- a. While **WHITE** wire is activated, apply +VDC to **YELLOW** wire for >3 seconds to enter Mode setting.
- b. Once in Mode setting, lighthouse will display dim slow pulses based on its Mode and Group (single or double pulses respectively).
- c. Momentarily apply +VDC to **YELLOW** wire for <1 second for next Mode. (refer to Mode charts).
- d. Momentarily apply +VDC to **YELLOW** wire quickly 3 times within 1 second to reset to Mode1.
- e. When desired mode is selected, apply +VDC to **YELLOW** for >3 seconds or disconnect all power to exit Mode setting.
- f. To configure Memory2, apply +VDC to **RED** wire and repeat the above steps A & B.



Warning

**NOTE:** For multiple lighthouse installation, heads in the same Group flash together. [G1] Heads alternate with [G2] Heads. For synchronization all **YELLOW** wires must be connected together, and set at the same Flash Pattern.

| Mode                   | Warning Effect  |
|------------------------|-----------------|
| 1 All (single pulse)   | All [G1]        |
| 2 All (double pulse)   | All [G2]        |
| 3 Split (single pulse) | Split [G1]      |
| 4 Split (double pulse) | Split [G2]      |
| 5 Left (single pulse)  | Left only [G1]  |
| 6 Left (double pulse)  | Left only [G2]  |
| 7 Right (single pulse) | Right only [G1] |
| 8 Right (double pulse) | Right only [G2] |

All = Left & Right simultaneous  
Split = Left & Right alternating

[G1] = Group1 [G2] = Group2



**Steady & Warning**

| Mode |                      | Steady&Warning Effect |                                       |
|------|----------------------|-----------------------|---------------------------------------|
| 1    | All (single pulse)   | ➔                     | Left Steady & Right Double Flash [G1] |
| 2    | All (double pulse)   | ➔                     | Left Steady & Right Double Flash [G2] |
| 3    | Split (single pulse) | ➔                     | Right Steady & Left Double Flash [G1] |
| 4    | Split (double pulse) | ➔                     | Right Steady & Left Double Flash [G2] |
| 5    | Left (single pulse)  | ➔                     | Left Steady & Right Quad Flash [G1]   |
| 6    | Left (double pulse)  | ➔                     | Left Steady & Right Quad Flash [G2]   |
| 7    | Right (single pulse) | ➔                     | Right Steady & Left Quad Flash [G1]   |
| 8    | Right (double pulse) | ➔                     | Right Steady & Left Quad Flash [G2]   |

All = Left & Right simultaneous  
Split = Left & Right alternating

[G1] = Group1 [G2] = Group2



**Full Steady**

| Mode |                      | Full Steady Effect |                  |
|------|----------------------|--------------------|------------------|
| 1    | All (single pulse)   | ➔                  | All high power   |
| 2    | All (double pulse)   | ➔                  | All low power    |
| 3    | Split (single pulse) | ➔                  | All high power   |
| 4    | Split (double pulse) | ➔                  | All low power    |
| 5    | Left (single pulse)  | ➔                  | Left high power  |
| 6    | Left (double pulse)  | ➔                  | Left low power   |
| 7    | Right (single pulse) | ➔                  | Right high power |
| 8    | Right (double pulse) | ➔                  | Right low power  |

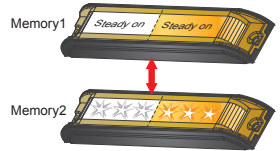
All = Left & Right simultaneous  
Split = Left & Right alternating

## Examples

### Example Configuration#1:

I would like Memory1 to be Full Steady (All low power), and Memory2 to be split Ultra flash (Left row LEDs alternate Right row LEDs).

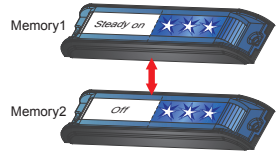
1. Activate **WHITE** wire and select FP#15.
2. Enter Mode setting and select Mode#2.
3. Activate **RED** wire and select FP#11.
4. Enter Mode setting and select Mode#3 (or Mode#4).



### Example Configuration#2:

I would like Memory1 to be Left Steady & Right Double Flash, and Memory2 to be All Ultra flash.

1. Activate **WHITE** wire and select FP#14.
2. Enter Mode setting and select Mode#1 (or Mode#2).
3. Activate **RED** wire and select FP#11.
4. Enter Mode setting and select Mode#1 (or Mode#2).



## Quick reference chart

|                | Mode 1 | Mode 2                                | Mode 3                                | Mode 4                                | Mode 5                                | Mode 6                              | Mode 7                              | Mode 8                              |                                     |
|----------------|--------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Flash Patterns | 1      | All Double R65 [G1]                   | All Double R65 [G2]                   | Split Double [G1]                     | Split Double [G2]                     | Left Double [G1]                    | Left Double [G2]                    | Right Double [G1]                   | Right Double [G2]                   |
|                | 2      | All Single 2Hz [G1]                   | All Single 2Hz [G2]                   | Split Single [G1]                     | Split Single [G2]                     | Left Single [G1]                    | Left Single [G2]                    | Right Single [G1]                   | Right Single [G2]                   |
|                | 3      | All Triple 2Hz [G1]                   | All Triple 2Hz [G2]                   | Split Triple [G1]                     | Split Triple [G2]                     | Left Triple [G1]                    | Left Triple [G2]                    | Right Triple [G1]                   | Right Triple [G2]                   |
|                | 4      | All Quad 2Hz [G1]                     | All Quad 2Hz [G2]                     | Split Quad [G1]                       | Split Quad [G2]                       | Left Quad [G1]                      | Left Quad [G2]                      | Right Quad [G1]                     | Right Quad [G2]                     |
|                | 5      | Random                                | Random                                | Random                                | Random                                | Random                              | Random                              | Random                              | Random                              |
|                | 6      | All Single [G1]                       | All Single [G2]                       | Split Single [G1]                     | Split Single [G2]                     | Left Single [G1]                    | Left Single [G2]                    | Right Single [G1]                   | Right Single [G2]                   |
|                | 7      | All Double [G1]                       | All Double [G2]                       | Split Double [G1]                     | Split Double [G2]                     | Left Double [G1]                    | Left Double [G2]                    | Right Double [G1]                   | Right Double [G2]                   |
|                | 8      | All Quad [G1]                         | All Quad [G2]                         | Split Quad [G1]                       | Split Quad [G2]                       | Left Quad [G1]                      | Left Quad [G2]                      | Right Quad [G1]                     | Right Quad [G2]                     |
|                | 9      | All Quint [G1]                        | All Quint [G2]                        | Split Quint [G1]                      | Split Quint [G2]                      | Left Quint [G1]                     | Left Quint [G2]                     | Right Quint [G1]                    | Right Quint [G2]                    |
|                | 10     | All Mega [G1]                         | All Mega [G2]                         | Split Mega [G1]                       | Split Mega [G2]                       | Left Mega [G1]                      | Left Mega [G2]                      | Right Mega [G1]                     | Right Mega [G2]                     |
|                | 11     | All Ultra [G1]                        | All Ultra [G2]                        | Split Ultra [G1]                      | Split Ultra [G2]                      | Left Ultra [G1]                     | Left Ultra [G2]                     | Right Ultra [G1]                    | Right Ultra [G2]                    |
|                | 12     | All Single-Quad [G1]                  | All Single-Quad [G2]                  | Split Single-Quad [G1]                | Split Single-Quad [G2]                | Left Single-Quad [G1]               | Left Single-Quad [G2]               | Right Single-Quad [G1]              | Right Single-Quad [G2]              |
|                | 13     | All Single H/L [G1]                   | All Single H/L [G2]                   | Split Single H/L [G1]                 | Split Single H/L [G2]                 | Left Single H/L [G1]                | Left Single H/L [G2]                | Right Single H/L [G1]               | Right Single H/L [G2]               |
|                | 14     | Left Steady & Right Double Flash [G1] | Left Steady & Right Double Flash [G2] | Right Steady & Left Double Flash [G1] | Right Steady & Left Double Flash [G2] | Left Steady & Right Quad Flash [G1] | Left Steady & Right Quad Flash [G2] | Right Steady & Left Quad Flash [G1] | Right Steady & Left Quad Flash [G2] |
|                | 15     | All High power                        | All Low power                         | All High power                        | All Low power                         | Left High power                     | Left Low power                      | Right High power                    | Right Low Power                     |

[G1] = Group1 [G2] = Group2