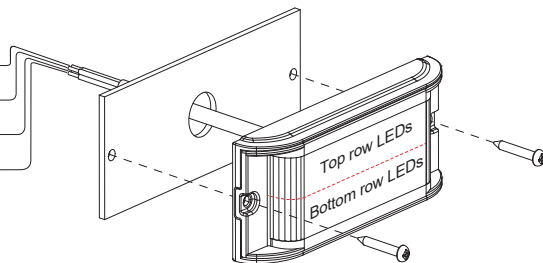


## Surface Mount

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 lighthead 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

- Activate Memory1 by applying +VDC to **WHITE** wire.
- 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

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



Warning

**NOTE:** For multiple lighthead 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 Top (single pulse)    | → Top only [G1]    |
| ⑥ Top (double pulse)    | → Top only [G2]    |
| ⑦ Bottom (single pulse) | → Bottom only [G1] |
| ⑧ Bottom (double pulse) | → Bottom only [G2] |

All = Top & Bottom simultaneous  
 Split = Top & Bottom alternating

[G1] = Group1 [G2] = Group2



**Steady & Warning**

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

All = Top & Bottom simultaneous  
Split = Top & Bottom 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    | Top (single pulse)    | →                  | Top high power    |
| 6    | Top (double pulse)    | →                  | Top low power     |
| 7    | Bottom (single pulse) | →                  | Bottom high power |
| 8    | Bottom (double pulse) | →                  | Bottom low power  |

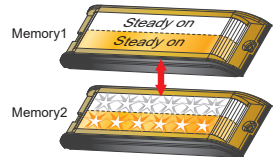
All = Top & Bottom simultaneous  
Split = Top & Bottom alternating

## Examples

### Example Configuration#1:

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

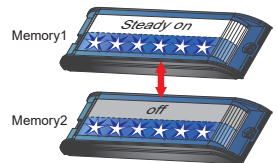
1. Activate **WHITE** wire and select FP#15.
2. Enter Mode setting and select Mode#2.
3. Activate **RED** wire and select FP#11.
4. Enter Mode setting and select Mode#3 (or Mode#4).



### Example Configuration#2:

I would like Memory1 to be Top Steady & Bottom 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]                     | Top Double [G1]                     | Top Double [G2]                     | Bottom Double [G1]                  | Bottom Double [G2]                  |
|                | 2 All Single 2Hz [G1]                    | All Single 2Hz [G2]                   | Split Single [G1]                     | Split Single [G2]                     | Top Single [G1]                     | Top Single [G2]                     | Bottom Single [G1]                  | Bottom Single [G2]                  |
|                | 3 All Triple 2Hz [G1]                    | All Triple 2Hz [G2]                   | Split Triple [G1]                     | Split Triple [G2]                     | Top Triple [G1]                     | Top Triple [G2]                     | Bottom Triple [G1]                  | Bottom Triple [G2]                  |
|                | 4 All Quad 2Hz [G1]                      | All Quad 2Hz [G2]                     | Split Quad [G1]                       | Split Quad [G2]                       | Top Quad [G1]                       | Top Quad [G2]                       | Bottom Quad [G1]                    | Bottom Quad [G2]                    |
|                | 5 Random                                 | Random                                | Random                                | Random                                | Random                              | Random                              | Random                              | Random                              |
|                | 6 All Single [G1]                        | All Single [G2]                       | Split Single [G1]                     | Split Single [G2]                     | Top Single [G1]                     | Top Single [G2]                     | Bottom Single [G1]                  | Bottom Single [G2]                  |
|                | 7 All Double [G1]                        | All Double [G2]                       | Split Double [G1]                     | Split Double [G2]                     | Top Double [G1]                     | Top Double [G2]                     | Bottom Double [G1]                  | Bottom Double [G2]                  |
|                | 8 All Quad [G1]                          | All Quad [G2]                         | Split Quad [G1]                       | Split Quad [G2]                       | Top Quad [G1]                       | Top Quad [G2]                       | Bottom Quad [G1]                    | Bottom Quad [G2]                    |
|                | 9 All Quint [G1]                         | All Quint [G2]                        | Split Quint [G1]                      | Split Quint [G2]                      | Top Quint [G1]                      | Top Quint [G2]                      | Bottom Quint [G1]                   | Bottom Quint [G2]                   |
|                | 10 All Mega [G1]                         | All Mega [G2]                         | Split Mega [G1]                       | Split Mega [G2]                       | Top Mega [G1]                       | Top Mega [G2]                       | Bottom Mega [G1]                    | Bottom Mega [G2]                    |
|                | 11 All Ultra [G1]                        | All Ultra [G2]                        | Split Ultra [G1]                      | Split Ultra [G2]                      | Top Ultra [G1]                      | Top Ultra [G2]                      | Bottom Ultra [G1]                   | Bottom Ultra [G2]                   |
|                | 12 All Single-Quad [G1]                  | All Single-Quad [G2]                  | Split Single-Quad [G1]                | Split Single-Quad [G2]                | Top Single-Quad [G1]                | Top Single-Quad [G2]                | Bottom Single-Quad [G1]             | Bottom Single-Quad [G2]             |
|                | 13 All Single H/L [G1]                   | All Single H/L [G2]                   | Split Single H/L [G1]                 | Split Single H/L [G2]                 | Top Single H/L [G1]                 | Top Single H/L [G2]                 | Bottom Single H/L [G1]              | Bottom Single H/L [G2]              |
|                | 14 Top Steady & Bottom Double Flash [G1] | Top Steady & Bottom Double Flash [G2] | Bottom Steady & Top Double Flash [G1] | Bottom Steady & Top Double Flash [G2] | Top Steady & Bottom Quad Flash [G1] | Top Steady & Bottom Quad Flash [G2] | Bottom Steady & Top Quad Flash [G1] | Bottom Steady & Top Quad Flash [G2] |
|                | 15 All High power                        | All Low power                         | All High power                        | All Low power                         | Top High power                      | Top Low power                       | Bottom High power                   | Bottom Low Power                    |

[G1] = Group1 [G2] = Group2