

**Cell2 MSP15HM Dual Level Multi Function Warning Light**



# Cell2 MSP15HM Dual Level Multi Function Warning Light User Manual

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**Cell2 MSP15HM Dual Level Multi Function Warning Light**



## Specifications

- **Product Name:** Dual Level Multi-Function Warning Light
- **Model Number:** 86-M08810-0101.0
- **Color Modes:** Single, Dual, Tri-Color
- **Flash Patterns:** Various options are available
- **Wiring:** Black to Chassis ground, Yellow for Setting, Synchronisation, and Flash Pattern

## Product Usage Instructions

### Wiring Instructions

- Connect the BLACK wire to the Chassis ground.
- For synchronizing and flash pattern settings, connect all YELLOW wires of light heads together.

**Operation Flash Pattern Selection:** To select and save a flash pattern, apply the YELLOW wire to +VDC momentarily while activating a warning mode

### Shortcut Setting for Steady EF (External flasher)

- Apply YELLOW wires to +VDC for more than 4 seconds during any warning mode activation to change trigger wires to default colour mode and Steady EF pattern.

### Colour & Pattern Selection

- Refer to the Color and Pattern charts for different modes and available patterns based on the colour model selected (Single, Dual, Tri-Color).

## Wiring

**BLACK** ——— to Chassis ground

=== UPPER LEVEL ===

**WHITE** ——— **[+]** (fuse @ 0.5A) Steady-burn Low Power **[P2]**

**BROWN** ——— **[+]** (fuse @ 0.5A) Steady-burn High Power **[P1]**

=== LOWER LEVEL ===

**RED** ——— **[+]** (fuse @ 3A) Warning Mode 1 **[P4]**  Warning Mode 3 **[P3]**

**ORANGE** ——— **[+]** (fuse @ 3A) Warning Mode 2 **[P4]**

**GREEN** ——— **[+]** (fuse @ 3A) Warning Mode 4 **[P2]**

**BLUE** ——— **[+]** (fuse @ 3A) Low Power or **[+]** Warning Mode 5 **[P1]**  
(See "WARNING MODE 5 SETTING" for Blue Wire)

**YELLOW** ——— For Setting, Synchronisation and Flash Pattern **[+]**  
Connect **YELLOW** wires of all lightheads together for synchronisation.  
(All lightheads should be set to the same Flash Pattern)

**NOTE**

- **[+]** = Activate the wire function by applying constant +VDC to the wire.
- **[Px]** = Precedence order, when more than one wire is activated at the same time, higher precedence wire will affect the lower precedence wire. P1 being the highest priority.

**Operation**

- For Flash Pattern Selection:
- Each Warning mode may select and save one flash pattern. While activating a warning mode, momentarily apply
- **YELLOW** wire to +VDC:
  - once to the next pattern.
  - quickly three times to FP#1.

**Default Setting Chart**

| COLOUR & PATTERN | Single Colour Model |                   |
|------------------|---------------------|-------------------|
|                  | Default Colour      | Default Pattern   |
| Mode 1           | Colour1             | 35. Steady Cruise |
| Mode 2           | Colour1             | 1. Double         |
| Mode 3           | Colour1             | 1. Double         |
| Mode 4           | Colour1             | 19. MINI TA LEFT  |
| Mode 5           | Colour1             | 26. MINI TA RIGHT |

| COLOUR & PATTERN | Dual Colour Model |                   |
|------------------|-------------------|-------------------|
|                  | Default Colour    | Default Pattern   |
| Mode 1           | Colour1           | 35. Steady Cruise |
| Mode 2           | Colour1           | 1. Double         |
| Mode 3           | Colour1           | 1. Double         |
| Mode 4           | Colour2           | 19. MINI TA LEFT  |
| Mode 5           | Colour2           | 26. MINI TA RIGHT |

| COLOUR & PATTERN | Tri Colour Model |                   |
|------------------|------------------|-------------------|
|                  | Default Colour   | Default Pattern   |
| Mode 1           | Colour1          | 35. Steady Cruise |
| Mode 2           | Colour1          | 1. Double         |
| Mode 3           | Colour2          | 19. MINI TA LEFT  |
| Mode 4           | Colour3          | 18. Steady High   |
| Mode 5           | Colour2          | 26. MINI TA RIGHT |

#### Shortcut Setting for Steady EF (External flasher)

This shortcut allow changing all trigger wires to its default color mode and Steady EF pattern at the same time. While activating any warning mode, momentarily apply YELLOW wires to +VDC for more than 4 seconds.  
(Visual feedback ON→OFF→ON)

| F<br>P<br># | Flash Pattern | Av<br>ail<br>ab<br>le<br>Co<br>lo<br>ur<br><br>M<br>od<br>e | Remark | F<br>P<br># | Flash Pattern | Av<br>ail<br>ab<br>le<br>Co<br>lo<br>ur<br><br>M<br>od<br>e | Remark |
|-------------|---------------|-------------------------------------------------------------|--------|-------------|---------------|-------------------------------------------------------------|--------|
| 1           | Double [2HZ]  | S /<br>D /<br>T                                             |        | 2<br>5      | Steady Mid    | S /<br>D /<br>T                                             |        |
| 2           | Single [2HZ]  | S /<br>D /<br>T                                             |        | 2<br>6      | MINI TA RIGHT | S /<br>D /<br>T                                             |        |

|        |                     |                 |                                                   |        |                                                   |                 |                                                                  |
|--------|---------------------|-----------------|---------------------------------------------------|--------|---------------------------------------------------|-----------------|------------------------------------------------------------------|
| 3      | Triple [2HZ]        | S /<br>D /<br>T |                                                   | 2<br>7 | MINI TA RIGHT SOL<br>ID                           | S /<br>D /<br>T |                                                                  |
| 4      | Quad [2HZ]          | S /<br>D /<br>T |                                                   | 2<br>8 | MINI TA RIGHT SW<br>EEP – Left Side of a<br>pair  | S /<br>D /<br>T | When using as a pair of u<br>nits                                |
| 5      | Random              | S /<br>D /<br>T |                                                   | 2<br>9 | MINI TA RIGHT SOL<br>ID – Left Side of a pa<br>ir | S /<br>D /<br>T | When using as a pair of u<br>nits                                |
| 6      | Steady EF           | S /<br>D /<br>T | For use with an ex<br>ternal flash control<br>ler | 3<br>0 | MINI TA RIGHT SW<br>EEP – Right Side of<br>a pair | S /<br>D /<br>T | When using as a pair of u<br>nits                                |
| 7      | Single [SAE/CA13]   | S /<br>D /<br>T |                                                   | 3<br>1 | MINI TA RIGHT SOL<br>ID – Right Side of a<br>pair | S /<br>D /<br>T | When using as a pair of u<br>nits                                |
| 8      | Double [SAE]        | S /<br>D /<br>T |                                                   | 3<br>2 | Steady Low                                        | S /<br>D /<br>T |                                                                  |
| 9      | Triple [SAE]        | S /<br>D /<br>T |                                                   | 3<br>3 | MINI TA CENTER-O<br>UT                            | S /<br>D /<br>T |                                                                  |
| 1<br>0 | Quad [SAE]          | S /<br>D /<br>T |                                                   | 3<br>4 | MINI TA CENTER-O<br>UT SOLID                      | S /<br>D /<br>T |                                                                  |
| 1<br>1 | Quint [SAE]         | S /<br>D /<br>T |                                                   | 3<br>5 | Steady Cruise                                     | S /<br>D /<br>T |                                                                  |
| 1<br>2 | Mega                | S /<br>D /<br>T |                                                   | 3<br>6 | Sweep Single TA                                   | S /<br>D /<br>T |                                                                  |
| 1<br>3 | Giga                | S /<br>D /<br>T |                                                   | 3<br>7 | Turn Indicator [ECE<br>Amber / SAE Red]           | S /<br>D /<br>T | For use with an Intermitte<br>nt flash signal with OFF d<br>elay |
| 1<br>4 | Ultra [SAE]         | S /<br>D /<br>T |                                                   | 3<br>8 | Turn Indicator [SAE<br>Amber]                     | S /<br>D /<br>T | For use with an Intermitte<br>nt flash signal with OFF d<br>elay |
| 1<br>5 | Single-Quad         | S /<br>D /<br>T |                                                   | 3<br>9 | OFF                                               | S /<br>D /<br>T |                                                                  |
| 1<br>6 | Single H/L          | S /<br>D /<br>T |                                                   | 4<br>0 | Single-Single                                     | D               |                                                                  |
| 1<br>7 | Single-Triple-Quint | S /<br>D /<br>T |                                                   | 4<br>1 | Double-Double                                     | D               |                                                                  |

|        |                                                  |                 |                                  |        |                    |   |  |
|--------|--------------------------------------------------|-----------------|----------------------------------|--------|--------------------|---|--|
| 1<br>8 | Steady High                                      | S /<br>D /<br>T |                                  | 4<br>2 | Triple-Triple Mid  | D |  |
| 1<br>9 | MINI TA LEFT SWE<br>EP                           | S /<br>D /<br>T |                                  | 4<br>3 | Triple-Triple Fast | D |  |
| 2<br>0 | MINI TA LEFT SOLI<br>D                           | S /<br>D /<br>T |                                  | 4<br>4 | Quint-Triple       | D |  |
| 2<br>1 | MINI TA LEFT SWE<br>EP – Left Side of a p<br>air | S /<br>D /<br>T | When using as a<br>pair of units | 4<br>5 | 7-1 Flash          | D |  |
| 2<br>2 | MINI TA LEFT SOLI<br>D – Left Side of a pa<br>ir | S /<br>D /<br>T | When using as a<br>pair of units | 4<br>6 | Quad-Single        | D |  |
| 2<br>3 | MINI TA LEFT SWE<br>EP – Right Side of a<br>pair | S /<br>D /<br>T | When using as a<br>pair of units | 4<br>7 | Quint-Quint        | D |  |
| 2<br>4 | MINI TA LEFT SOLI<br>D – Right Side of a<br>pair | S /<br>D /<br>T | When using as a<br>pair of units |        |                    |   |  |

S = Single Colour D = Dual Colour T = Tri Colour

## Setting Mode

- Each Warning mode may select and save its Colour Mode and Flash Group. Power down the unit then apply +VDC to a Warning Mode function wire
- (RED or ORANGE or RED&ORANGE or GREEN or BLUE) and YELLOW wires simultaneously then remove YELLOW wire to enter SETTING
- MODE for the following settings. Save and exit the setting by disconnecting the power.
- For Colour Mode Setting:
- Momentarily apply the YELLOW wire to +VDC for less than 1 seconds to change colour and order. Please refer to the Colour Mode table.
- **NOTE:** For Single and Dual Colour Models, only limited modes are available.
- For Simultaneous or Alternating Synchronisation:
- To change Group, momentarily apply YELLOW wire to +VDC for more than 3 seconds. Display of the lighthouse:
- Single flash = Group 1 (Simultaneously) • Double flash = Group 2 (Alternately)
- **NOTE:** Lighthouses of the same Group will flash together; lighthouses of the Group 1 & Group 2 will flash alternately.
- Reset to Factory Default Settings:
- Apply to +VDC for more than 5 seconds. The lighthouse will display fast short flashes to signify restoring successfully.

## Warning Mode 5 Setting

By default, BLUE wire functions as Low Power operation. However, it is possible to set BLUE wire function as an

extra Warning Mode 5. To config, power down the unit, apply +VDC to a wire and YELLOW wires simultaneously then remove YELLOW wire to enter **WARNING** MODE 5 SETTING MODE. Momentarily apply YELLOW wire to +VDC for less than 1 second to change its setting. Once set, exit the setting by disconnecting the power.

- Steady Low = Low Power Operation (Default)
- Steady High = Warning Mode 5.

| Colour Mode |                                                                                     |
|-------------|-------------------------------------------------------------------------------------|
| 1           |    |
| 2           |    |
| 3           |    |
| 4           |    |
| 5           |    |
| 6           |    |
| 7           |    |
| 8           |   |
| 9           |  |
| 10          |  |
| 11          |  |
| 12          |  |
| 13          |  |
| 14          |  |
| 15          |  |



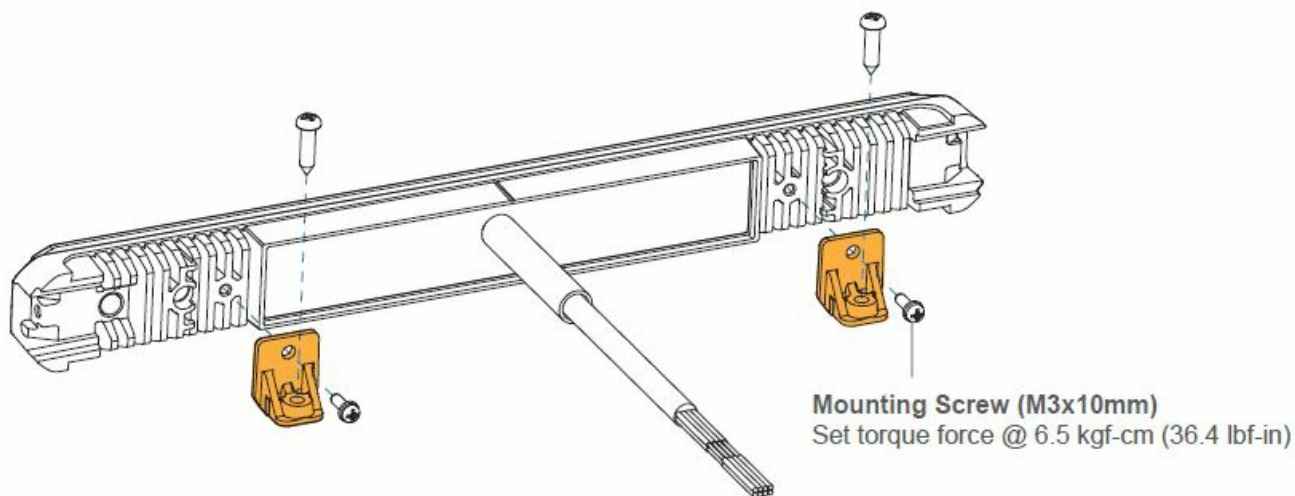
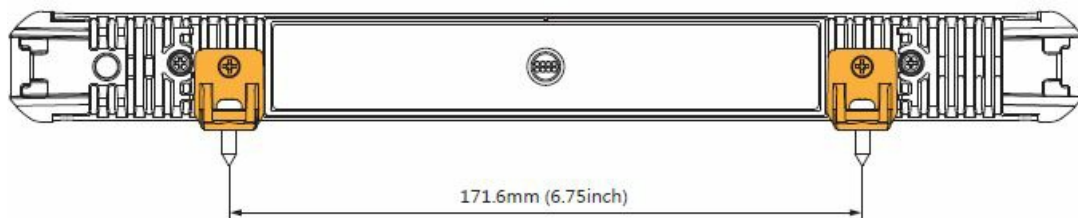
Single flash



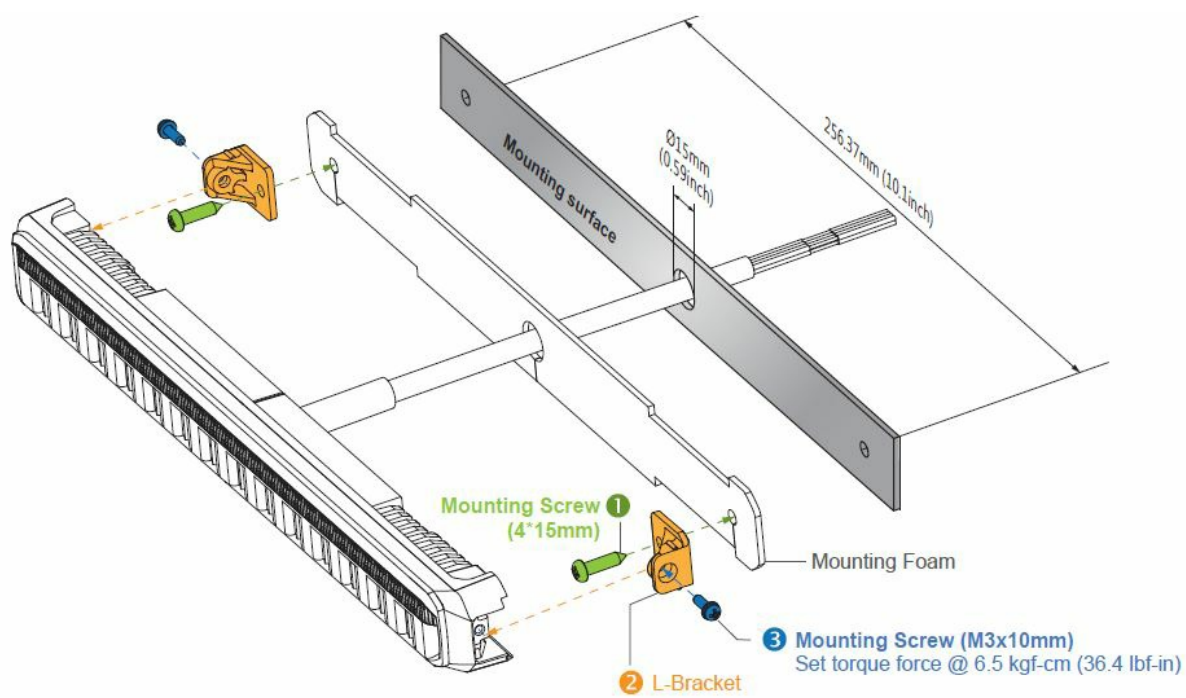
Low Power Steady

## Dimensions

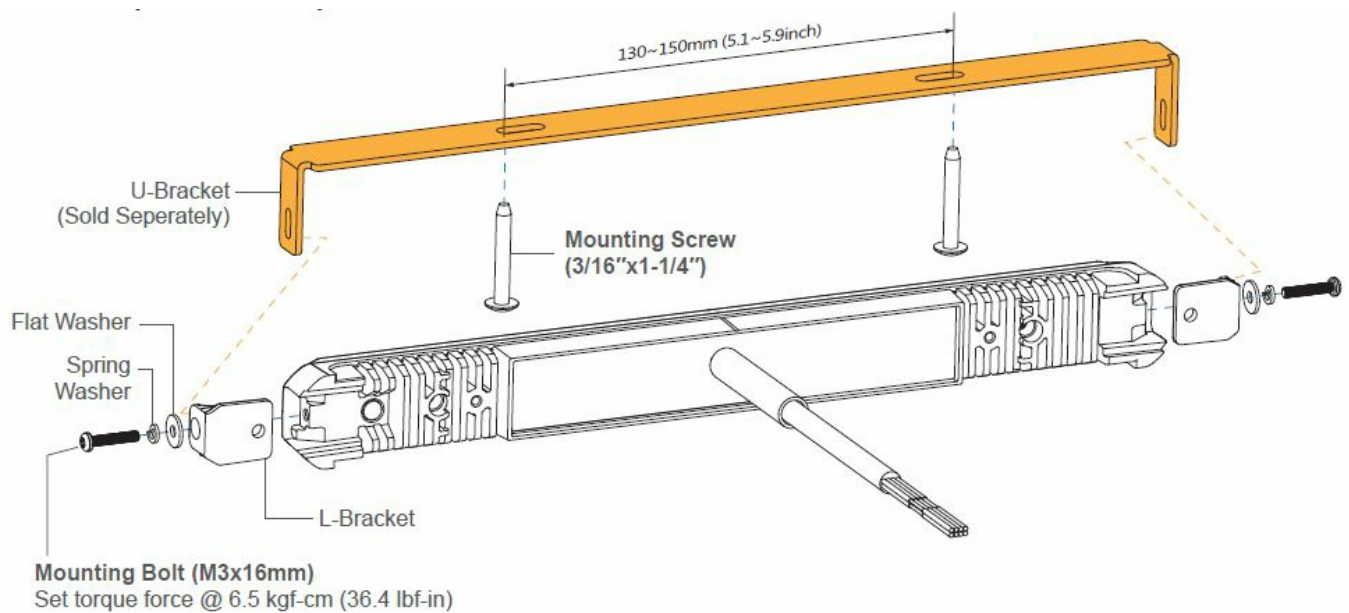
### L-Bracket Mount



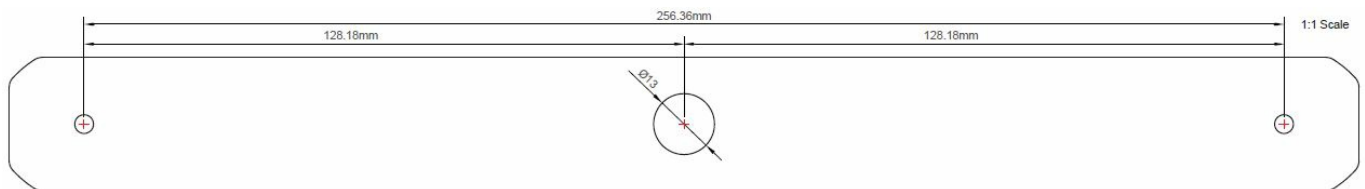
## Surface Mount



## Bail (U-Bracket) Mount



## Surface Mount Template



## Documents / Resources

|  |                                                                                                                                                                                                                                                                           |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><a href="#">Cell2 MSP15HM Dual Level Multi Function Warning Light</a> [pdf] User Manual<br/>MSP15HM Dual Level Multi Function Warning Light, MSP15HM, Dual Level Multi Function Warning Light, Multi Function Warning Light, Function Warning Light, Warning Light</p> |
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## References

- [User Manual](#)

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