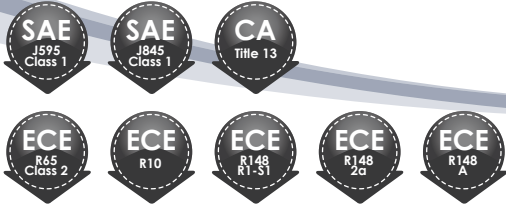


12~24VDC

# MSP15HM

## MS Prime 15 Halo-Max

### Dual-row Multi-function Combo Warning Light



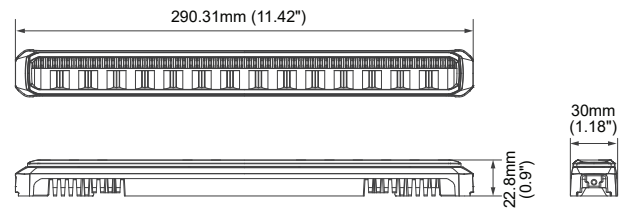
### FEATURES

- Dual-row Multi-functional combo warning light with bottom high power warning light and top functional steady-burn light.
- Independent controlled, multi-purposed Top Halo-Stripe may be used as a Tail/Brake lamp, a Position Lamp.
- Extra length profile, idea for installation in lieu of multiple lighthoods
- 5 independent warning memories for varies possible usage.
- Sequential flashing pattern for traffic arrow stick usage.
- 3-ways mounting methods (Surface bracket, L-bracket, Bail-bracket) for versatile applications.
- SAE Class 1 and ECE R65 Class 2 certified high power warning output.
- Available in Single / Dual / Tri Colour models.
- ECE R10 EMC Compliance and meet CISPR 25 Class 2.
- Multi-unit synchronisation in simultaneous or alternating flash.
- Reverse polarity protection.
- Weatherproof and vibration resistant design for external use.
- Aluminium base for efficient heat dissipation and maximum durability.

### SPECIFICATIONS

- Compliance:** ECE R10; CISPR 25 Class 3; IPX7;
- (Bottom Row)** SAE J595 Class 1; SAE J845 Class 1; CA13; ECE R65 Class 2 (Amber, Blue, Red); ECE R148 2a (Amber)
- (Halo-Stripe)** ECE R148 R1-S1 (Tail/Brake Lamp - Red); ECE R148 A (Front Position Lamp - White);
- LED Element: (Bottom Row)** High-power LED x 15 pcs (Single Colour); High-power LED x 30 pcs (Dual Colour); High-power LED x 45 pcs (Tri Colour);
- (Halo-Stripe)** Medium-Power LED x 30 pcs
- No. of Warning Patterns:** 47
- Operating Voltage:** 12~24VDC
- Avg. Current:** 0.94A @12VDC, 0.47A @24VDC
- Max. Current:** 1.87A @12VDC, 0.94A @24VDC
- Avg. Power:** 11.25W **Max. Power:** 22.5W
- Wires:** Black - GND (18AWG)  
 White - **(Halo-Stripe)** Steady-burn Low Power (24AWG)  
 Brown - **(Halo-Stripe)** Steady-burn High Power (24AWG)  
 Red - **(Bottom Row)** Warning Mode 1 (18AWG)  
 Orange - **(Bottom Row)** Warning Mode 2 (24AWG)  
 Red+Orange- **(Bottom Row)** Warning Mode 3  
 Green - **(Bottom Row)** Warning Mode 4 (24AWG)  
 Blue - **(Bottom Row)** Warning Mode 5 or Low Power (24AWG)  
 Yellow - Flash Pattern & Sync (24AWG)
- Wires Length:** 120cm
- Synchronisation:** up to 20 units
- LED Colour:** Amber, Blue, Green, Red, White
- Lens Colour:** Clear
- Storage Temp.:** -40°C to +75°C
- Working Temp.:** -40°C to +65°C

### DIMENSIONS



### PART NO.

- **M088-x11ya-000** (Single Colour, Screw Mounted Accessories)
- **M088-x12ya-000** (Single Colour, Bail + Screw Mounted Accessories)
- **M088-x21yb-000** (Dual Colour, Screw Mounted Accessories)
- **M088-x22yb-000** (Dual Colour, Bail + Screw Mounted Accessories)
- **M088-x31yc-000** (Tri Colour, Screw Mounted Accessories)
- **M088-x32yc-000** (Tri Colour, Bail + Screw Mounted Accessories)

#### Replace x for Approval:

- 4 = SAE
- 5 = ECE

#### Replace y for Halo-Stripe color:

- A = Amber Halo-Stripe
- R = Red Halo-Stripe
- W = White Halo-Stripe

#### Replace a for Single colour:

- A = Amber
- B = Blue
- G = Green\*
- R = Red
- W = White

#### Replace b for dual colour:

- K = Amber / White
- D = Blue / Amber
- T = Blue / White
- J = Red / Amber
- Q = Red / Blue
- U = Red / White
- M = Green / Amber\*

#### Replace c for Tri colour:

- 6 = Blue / Amber / White
  - 5 = Red / Amber / White
  - 1 = Red / Blue / Amber
  - 2 = Red / Blue / White
  - 3 = Red / Green / Amber
  - 4 = Red / Green / White
  - 7 = Green / Amber / White\*
- \*MOQ = 50pcs



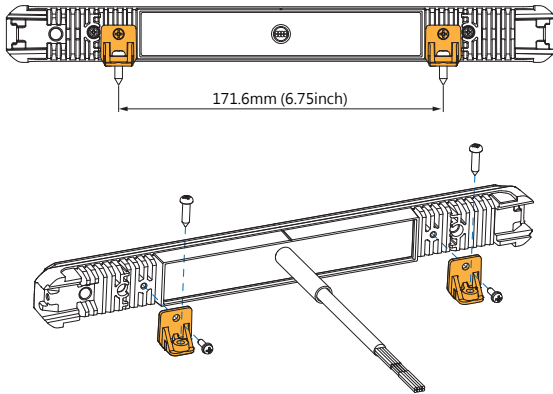
## FLASH PATTERN

FP#	Flash Pattern	Available Colour Mode	Remark	FP#	Flash Pattern	Available Colour Mode	Remark
1	Double [2HZ]	S / D / T		25	Steady Mid	S / D / T	
2	Single [2HZ]	S / D / T		26	MINI TA RIGHT	S / D / T	
3	Triple [2HZ]	S / D / T		27	MINI TA RIGHT SOLID	S / D / T	
4	Quad [2HZ]	S / D / T		28	MINI TA RIGHT SWEEP - Left Side of a pair	S / D / T	When using as a pair of units
5	Random	S / D / T		29	MINI TA RIGHT SOLID - Left Side of a pair	S / D / T	When using as a pair of units
6	Steady EF	S / D / T	For use with an external flash controller	30	MINI TA RIGHT SWEEP - Right Side of a pair	S / D / T	When using as a pair of units
7	Single [SAE/CA13]	S / D / T		31	MINI TA RIGHT SOLID - Right Side of a pair	S / D / T	When using as a pair of units
8	Double [SAE]	S / D / T		32	Steady Low	S / D / T	
9	Triple [SAE]	S / D / T		33	MINI TA CENTER-OUT	S / D / T	
10	Quad [SAE]	S / D / T		34	MINI TA CENTER-OUT SOLID	S / D / T	
11	Quint [SAE]	S / D / T		35	Steady Cruise	S / D / T	
12	Mega	S / D / T		36	Sweep Single TA	S / D / T	
13	Giga	S / D / T		37	Turn Indicator [ECE Amber / SAE Red]	S / D / T	For use with an Intermittent flash signal with OFF delay
14	Ultra [SAE]	S / D / T		38	Turn Indicator [SAE Amber]	S / D / T	For use with an Intermittent flash signal with OFF delay
15	Single-Quad	S / D / T		39	OFF	S / D / T	
16	Single H/L	S / D / T		40	Single-Single	D	
17	Single-Triple-Quint	S / D / T		41	Double-Double	D	
18	Steady High	S / D / T		42	Triple-Triple Mid	D	
19	MINI TA LEFT SWEEP	S / D / T		43	Triple-Triple Fast	D	
20	MINI TA LEFT SOLID	S / D / T		44	Quint-Triple	D	
21	MINI TA LEFT SWEEP - Left Side of a pair	S / D / T	When using as a pair of units	45	7-1 Flash	D	
22	MINI TA LEFT SOLID - Left Side of a pair	S / D / T	When using as a pair of units	46	Quad-Single	D	
23	MINI TA LEFT SWEEP - Right Side of a pair	S / D / T	When using as a pair of units	47	Quint-Quint	D	
24	MINI TA LEFT SOLID - Right Side of a pair	S / D / T	When using as a pair of units				

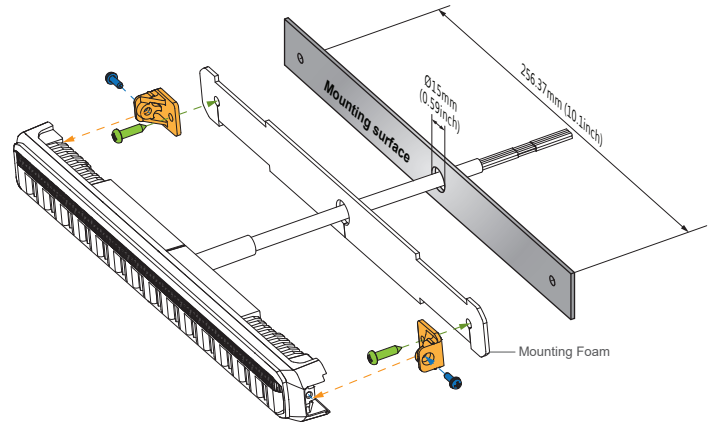
S = Single Colour    D = Dual Colour    T = Tri Colour

## MOUNTING EXAMPLE

### L-Bracket Surface Mount



### Surface Mount



### Bail (U-Bracket) Mount

