

# ML6 LED LIGHTS

- EML6E20A - AMBER
- EML6E20B - BLUE
- EML6E20R - RED
- EML6E20W - WHITE
- EML6E20BA - BLUE/AMBER
- EML6E20AW - AMBER/WHITE
- EML6E20RA - RED/AMBER
- EML6E20BW - BLUE/WHITE
- EML6E20RW - RED/WHITE
- EML6E20RB - RED/BLUE
- EML6E20GA - GREEN/AMBER



TECHNICAL SPECIFICATIONS	
Overall Dimensions:	34.9mmL x 31.5mmW x 30mmD
Input Voltage Range:	10-30Vdc
Current Consumption:	Single Color: 1A Max Dual Color: 0.38A Max *Flash Pattern & Color Dependent
Reverse Polarity:	Protected
Operating Temperature:	-30°C - 81°C
Certifications:	SAE J595 Cls 1 (Single Colors) SAE J595 Cls 2 (Dual Colors) ECE R65 Cls 1 (B,A,R Single Color) ECE R10 (All Colors)
SETTING FLASH PATTERN	
WIRE HELD TIME	MODULE RESPONSE
0-1 Second	Next Pattern*
1-3 Seconds	Previous Pattern*
3-5 Seconds	Factory Default Mode (Pattern 1)*
>5 Seconds	Temporary Off**

\*Resetting to factory default or changing patterns only affects the active functions pattern table.

\*\*Re-apply power or momentarily ground the pattern wire to turn lights back on.

### IMPORTANT INFORMATION:

Warning devices are strictly regulated and governed by Federal, State and Municipal ordinances. These devices shall be used ONLY on approved vehicles. It is the sole responsibility of the user of these devices to ensure compliance.

To review our Limited Warranty Statement & Return Policy for this or any SoundOff Signal product, visit our website at [www.soundoffsignal.com/sales-support](http://www.soundoffsignal.com/sales-support).  
If you have questions regarding this product, contact **Technical Services**, Monday - Friday, 8 a.m. to 5 p.m. at **1.800.338.7337** (press #4 to skip the automated message).  
This instruction sheet is for the proper installation of your light bar. Please see our website for the ongoing maintenance of your light bar.  
Questions or comments that do not require immediate attention may be emailed to [techservices@soundoffsignal.com](mailto:techservices@soundoffsignal.com).

SUPERIOR CUSTOMER RELATIONSHIPS. SMARTLY DESIGNED LIGHTING & ELECTRONIC SOLUTIONS.

## MOUNTING INSTRUCTIONS

1. Cut a 1" diameter hole in the location you wish to install the light.
2. Remove the rubber grommet from the light and insert it into the hole until the vehicle is engaged between the top and bottom of the grommet.
3. Feed the wires through the hole and connect to vehicle power.
4. Push the light into the grommet until it seats and orient it with TOP marking on the light.

### SINGLE COLOR - WIRE HOOK-UP TABLE

WIRE COLOR:	CONNECT TO:
RED:	FUNCTION - POWER
BLACK:	GROUND
BLUE:	PATTERN SELECT & SYNC
WHITE:	GROUND TO LOW POWER

### DUAL COLOR - WIRE HOOK-UP TABLE

WIRE COLOR:	CONNECT TO:
RED: PURPLE: RED & PURPLE:	FUNCTION - POWER COLOR 1 POWER COLOR 2 POWER COLOR 1 & 2
BLACK:	GROUND
BLUE:	PATTERN SELECT & SYNC
WHITE:	GROUND TO LOW POWER

## ⚠ WARNING

This product contains high intensity LED devices. To prevent eye damage, DO NOT stare into the light beam at close range.



SINGLE COLOR FLASH PATTERNS					
#	NAME	SYNC	FPM	PHASE	CERTIFICATIONS
1	SINGLE 75	X	75	1	SAE/CA13
2	SINGLE 75	X	75	2	SAE/CA13
3	SINGLE 75	X	75	SPLIT	SAE/CA13
4	DOUBLE 75	X	75	1	SAE/CA13
5	DOUBLE 75	X	75	2	SAE/CA13
6	DOUBLE 75	X	75	SPLIT	SAE/CA13
7	QUAD 75	X	75	1	SAE/CA13
8	QUAD 75	X	75	2	SAE/CA13
9	QUAD 75	X	75	SPLIT	SAE/CA13
10	SINGLE 120	X	120	1	SAE/ECE R65
11	SINGLE 120	X	120	2	SAE/ECE R65
12	SINGLE 120	X	120	SPLIT	-
13	DOUBLE 120	X	120	1	SAE/ECE R65
14	DOUBLE 120	X	120	2	SAE/ECE R65
15	DOUBLE 120	X	120	SPLIT	-
16	QUAD 150	X	150	1	SAE/ECE R65
17	QUAD 150	X	150	2	SAE/ECE R65
18	QUAD 150	X	150	SPLIT	-
19	STEADY BURN	-	-	-	-

**SIMULTANEOUS FLASH - SINGLE COLOR LIGHT**  
Set both to the same Phase and flash pattern.

**ALTERNATING FLASH - SINGLE COLOR LIGHT**  
Set both to the same flash pattern on opposite Phases.

**PHASE PATTERN**  
If one light is on Phase 1 and the other is in Phase 2 they will flash alternate.

If both lights are on the same Phase Pattern they will flash simultaneously.

DUAL COLOR FLASH PATTERNS					
#	NAME	SYNC	FPM	PHASE	CERTIFICATIONS
1	SINGLE 75	X	75	1	SAE/CA13
2	SINGLE 75	X	75	2	SAE/CA13
3	DOUBLE 75	X	75	1	SAE/CA13
4	DOUBLE 75	X	75	2	SAE/CA13
5	QUAD 75	X	75	1	SAE/CA13
6	QUAD 75	X	75	2	SAE/CA13
7	SINGLE 120	X	120	1	-
8	SINGLE 120	X	120	2	-
9	DOUBLE 120	X	120	1	SAE
10	DOUBLE 120	X	120	2	SAE
11	QUAD 120	X	150	1	SAE
12	QUAD 120	X	150	2	SAE
13	STEADY BURN CLR 1	-	-	-	-
14	STEADY BURN OLR 2	-	-	-	-

**FACTORY DEFAULT**

**SIMULTANEOUS FLASH - DUAL COLOR LIGHT**  
For simultaneous flash of lights of the same function set both to the same Phase and flash pattern.

**ALTERNATING FLASH - DUAL COLOR LIGHT**  
For alternating flash of the same function set both to the same flash pattern on opposite Phases.

**SPLIT FLASH - DUAL COLOR LIGHT**  
Alternates between each half of a single color light.

