

## MS6 SYNC FLASHING LED LIGHT MODULES

### READ BEFORE INSTALLATION and OPERATION

The MS6 SYNC LED Light Module must be properly installed in accordance with this document to ensure safe installation and operation. Fully read and understand the information contained in this document before attempting to install or operate the device.

- **Installation of this device requires a good understanding of automotive electronics , systems and procedures. It is recommended a trained technician perform the installation.**
- **This product may require drilling of mount holes into the vehicle and the installer MUST ensure vehicle structural integrity or vital parts not be damaged in the process.**
- **Ensure installed device(s) properly operate simultaneously with existing electronic equipment. Never wire emergency warning devices on radio communication equipment circuits.**
- **The high intensity of this product's LEDs may have an adverse effect on human vision resulting in momentary blindness; do not stare directly into device lights.**
- **Use ONLY soap and water to clean outer lens. Use of chemicals results in premature lens cracking and/or discolouration resulting in reduced performance. Inspect and replace lens immediately if cracks or crazing occurs. Never pressure wash device to clean.**
- **Regularly inspect and operate this device to ensure proper performance and safe mounting conditions.**

### MOUNTING

There are two mounting options to provide exterior and interior vehicle installation.

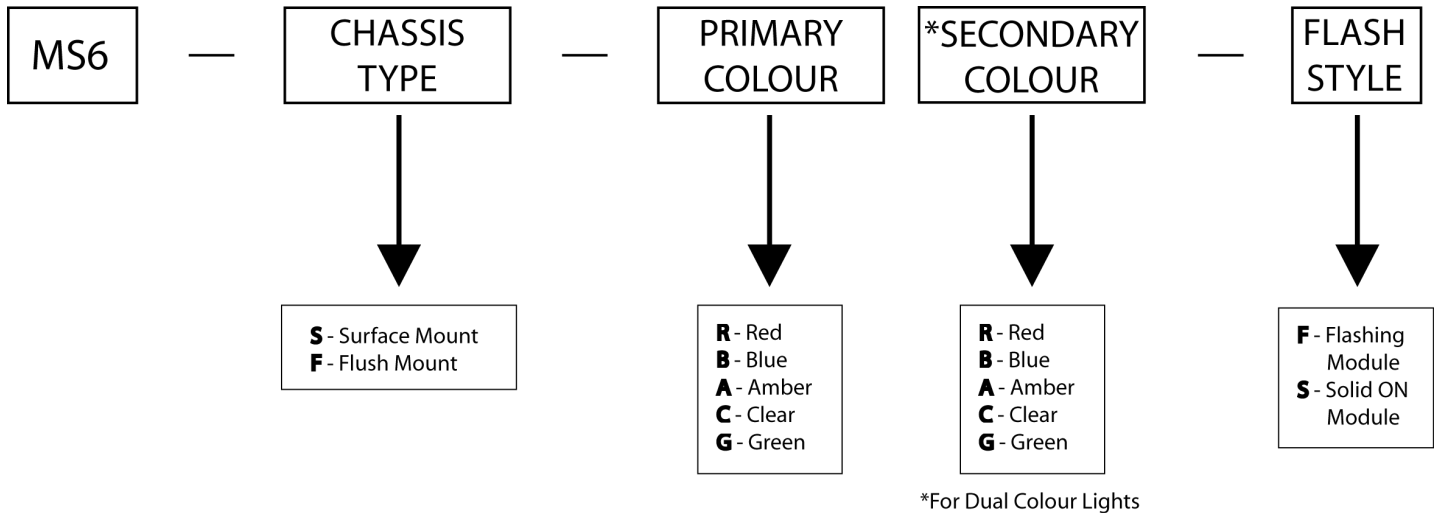
*Flush Mount (Interior/Exterior)*



*Surface Mount (Exterior)*



## PART NUMBER LEGEND



Example: MS6-S-RB-F

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1. Customer supplied wires connecting to the power source **MUST** be rated 125% of maximum operating current. Inline fuses **MUST** be located at the battery positive terminal and have proper current and voltage rating. Do not use circuit breakers.
2. Adequate grounding is essential to ensure the product operates at maximum efficiency. It is recommended grounding to be to the negative (-) terminal of the battery. If chassis grounding ensure contact point is free of paint, oil and debris and ground wire is securely fastened.
3. Ensure unused wires are insulated.

### IMPORTANT WARNING!

CAUTION! NEVER LOOK DIRECTLY AT LIGHT (LEDs) WHEN THEY ARE ON. MOMENTARY BLINDNESS AND/OR EYE DAMAGE COULD RESULT!

## FLASHING MODULE WIRE FUNCTIONS

Wire Colour	Function	Operation
Red	Power	Power, +12VDC
Black	Ground	Ground (frame or negative terminal of battery)
White	PC	Momentary contact for pattern change (+12VDC Ctrl)
Green	SYNC	Sync Mode

## LED Module Flash Patterns

1. Strobe Flash PH1	10. Triple Flash Slow PH2	19. Double Burst
2. Strobe Flash PH2	11. Strobe Flash Slow PH1	20. Triple Burst
3. Quad Flash PH1	12. Strobe Flash Slow PH2	21. Slow Fast 1
4. Quad Flash PH2	13. Double Flash Slow PH1	22. Slow Fast 2
5. Double Flash PH1	14. Double Flash Slow Ph2	23. Progressive
6. Double Flash PH2	15. Single Flash 60FPM	24. Multi-Flash
7. Single Flash PH1	16. Single Flash 90FPM	25. Colour 1 Solid ON
8. Single Flash PH2	17. Single Flash 120FPM	26. Colour 2 Solid ON
9. Triple Flash Slow PH1	18. Single Flash 300FPM	

PH1—Phase 1 (ON : OFF : ON)  
PH2—Phase 2 (OFF : ON : OFF)

NOTE: Pattern #1-14 is for synchronization of multiple LED modules. For single colour modules, pattern #25 is the last pattern available.

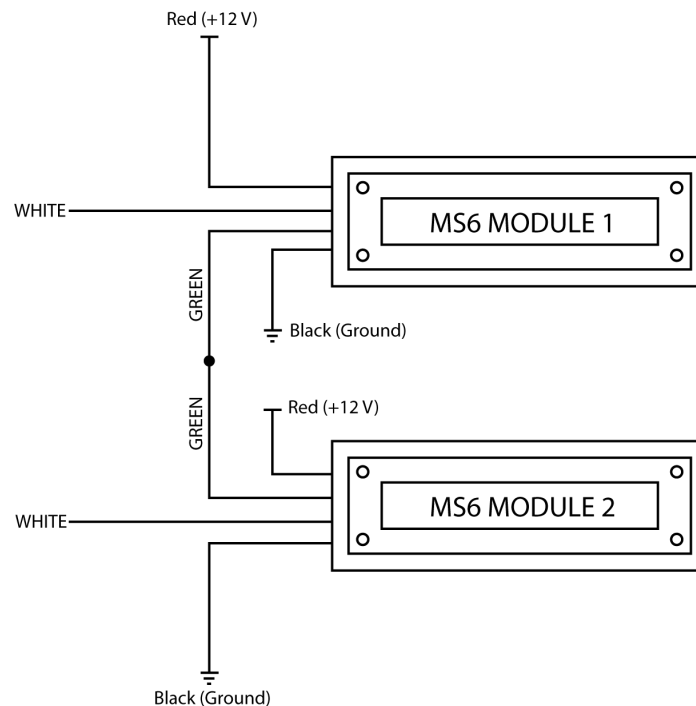
**Pattern Change:** From FLASH PATTERNS list choose the flash pattern to be used and note the position in the list (ex. Triple Burst has position 20). To change pattern, tap the WHITE wire to (+) 12 VDC for half a second as many times as the pattern's list position. For example, for "Triple Burst" tap 20 times.

**NOTE:** If number of taps is more than 26, the flash pattern change request will be ignored.

**Synchronizing Multiple LED Module:** This function is used to synchronize multiple light modules. The GREEN wires from each unit must be connected together. The flash pattern of each connected unit must be set to the same phase for simultaneous flashing, and in different phases for alternate flashing.

NOTE: Only pattern #1-14 has sync function compatibility. All synchronized LED modules need to be set on the same pattern in the same or different phase. Follow the diagram below for wiring.

### SYNC FLASH MODE



## WARRANTY

D & R Electronics warrants its new products to be free from defects in material and workmanship, under normal use and service for a period of one year on parts replacement. This warranty applies only to original purchasers acquiring the product directly from D&R Electronics, or its authorized dealers.

Warranty will not be recognized without proof of purchase or bill of sale.

This warranty is not transferable. The warranty begins on the date of delivery to the first user/purchaser. This warranty shall not apply to products which must be repaired due to normal wear and tear, negligence, improper installation, abuse, misuse, or which have been altered or modified at a facility other than D & R Electronics, or its authorized depot centers. Units proved to be defective within the warranty period, based on an examination by D&R Electronics, will be replaced or repaired at D & R Electronics' option. This warranty does not cover travel expenses or labor charges for removal or installation. Lamps, flash tubes, batteries or other items considered consumables are not covered under warranty.

This warranty is in lieu of all other express warranties. D&R Electronics makes no warranties, expressed or implied, other than the express warranties contained herein.

Any electronic device may create or be affected by electromagnetic interference. After installation of any electronics device operate all equipment simultaneously to insure that operation is free of interference. Never power emergency warning equipment from the same circuit or share the same grounding circuit with radio communication equipment.

PROPER INSTALLATION COMBINED WITH OPERATION TRAINING IN THE PROPER USE OF EMERGENCY WARNING DEVICES IS ESSENTIAL TO INSURE THE SAFETY OF EMERGENCY PERSONNEL AND THE PUBLIC.

## PRODUCT RETURN POLICY

In order to provide you with faster service, product returns for repair or replacement, must have a **Return Goods Authorization Number (RGA number)**. Please contact our company to obtain a RGA number before you return the product to D & R ELECTRONICS. Write the RGA number clearly on the package. Be sure you use sufficient packing materials to avoid damage to the product being returned while in transit. D & R ELECTRONICS assumes no responsibility or liability for expenses incurred for the removal and/or the installation of products requiring service and/or repair. Repairing or replacing product is at the discretion of D & R ELECTRONICS Co. LTD.

## D&R ELECTRONICS Co. LTD.

### CANADA

8820 George Bolton Pkwy.  
Bolton, Ontario L7E 2Y4  
Tel: (905) 951-9997  
Fax: (905) 951-0019

### USA

2299 Kenmore Avenue  
Building 3, Doors 11-14  
Buffalo, New York 14207  
Toll Free: 1-800-538-7338

[www.dandrelectronics.com](http://www.dandrelectronics.com)