

TOMAR

Instruction Manual



R¹³_{&14}L-STICKS

Mini LED Lightstick Series

IS0553B-07
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L-Stick Wiring

Red	+12Vdc
Black	Ground
Orange	Warning Mode 1
Blue	Warning Mode 2
Orange & Blue	Warning Mode 3
Red/White	Right Arrow Mode
Brown/White	Left Arrow Mode
Red/White & Brown/White	Center Out Arrow Mode
Brown	N/A
Green	Intensity Control

Programming Instructions

Entering Programming Mode:

To activate the L-Stick programming mode, connect the BLACK Wire to ground then simultaneously attach the GREEN wire and the RED wire to +12 Vdc.

Changing Warning Patterns and Flash Rates:

Three unique warning patterns can be selected using the ORANGE and BLUE mode selection wires. See example below:

ORANGE WIRE = Warning Mode 1

BLUE WIRE = Warning Mode 2

ORANGE & BLUE WIRE = Warning Mode 3

To change the warning mode, attach the wire(s) corresponding to the mode to be changed to +12Vdc. Tap the RED/WHITE wire to +12Vdc to advance the flash pattern. See the list of available flash patterns below.

A unique flash rate can be assigned to each warning mode. To change the flash rates enter the programming mode as described above. Move the green wire from +12Vdc to Ground. Tap the BROWN/WHITE wire to +12Vdc to advance the flash rate. See the list of available flash rates below.

Changing Traffic Direction Patterns and Flash Rates:

To change the Traffic Direction pattern, activate the L-Stick programming mode by connecting the BLACK Wire to ground then simultaneously attach the GREEN wire, RED/WHITE wire and the RED wire to +12 Vdc. Tap the BROWN wire to +12Vdc to advance the flash pattern. See the list of available Traffic Direction patterns below.

A unique flash rate can be assigned to the Traffic Direction mode. To change the flash rates enter the programming mode as described above. Move the green wire from +12Vdc to Ground. Tap the BROWN wire to +12Vdc to advance the flash rate. See the list of available flash rates below.

Flash Rates, Warning Modes:

- 1) SINGLE FLASH 312 FPM
- 2) DOUBLE FLASH 117 FPM **
- 3) NEOBE FLASH 77 FPM **
- 4) SINGLE 75 FLASH 75 FPM **
- 5) SCROLL FLASH A ** switches between the Single, Double and Neobe flash rates, every 4 seconds
- 6) SCROLL FLASH B ** switches between the Single 75, Double and Neobe flash rates, every 4 seconds

Flash Patterns, Warning Modes (12, 10 & 8 Channel Versions):

- 1) OFF
- 2) COMBINATION A (*Patterns 6,5,7,5 repeat*) *ORANGE Wire (Warning Mode 1) DEFAULT, SCROLL A FLASH*
- 3) COMBINATION B (*Patterns 6,5,4,5 repeat*) **
- 4) INBOARD OUTBOARD ** *BLUE Wire (Warning Mode 2) DEFAULT, SCROLL A FLASH*
- 5) LEFT RIGHT ** *ORANGE & BLUE Wires (Warning Mode 3) DEFAULT, SCROLL A FLASH*
- 6) ALTERNATE **
- 7) RANDOM
- 8) SINGLE OUTBOARD **
- 9) DOUBLE OUTBOARD **
- 10) SINGLE INBOARD **
- 11) DOUBLE INBOARD **
- 12) TRIPLE INBOARD **
- 13) SWEEP

Flash Patterns, Warning Modes (6 Channel Version):

- 1) OFF
- 2) COMBINATION A (*Patterns 6,5,7,5 repeat*) *ORANGE Wire (Warning Mode 1) DEFAULT, SCROLL A FLASH*
- 3) COMBINATION B (*Patterns 6,5,4,5 repeat*) **
- 4) INBOARD OUTBOARD ** *BLUE Wire (Warning Mode 2) DEFAULT, SCROLL A FLASH*
- 5) LEFT RIGHT ** *ORANGE & BLUE Wires (Warning Mode 3) DEFAULT, SCROLL A FLASH*
- 6) ALTERNATE **
- 7) RANDOM
- 8) SINGLE OUTBOARD **
- 9) DOUBLE OUTBOARD **
- 10) SINGLE INBOARD **
- 11) DOUBLE INBOARD **
- 12) SWEEP

** = CA Title 13 compliant

Flash Rates, Traffic Direction Modes:

- | | | |
|--------------------|--|----|
| 1) SINGLE FLASH | 96 FPM | ** |
| 2) DOUBLE FLASH | 125 FPM | |
| 3) NEOBE FLASH | 96 FPM | ** |
| 4) SINGLE 75 FLASH | 75 FPM | ** |
| 5) SCROLL FLASH A | switches between the Single, Double and Neobe flash rates, every two cycles of a pattern. | |
| 6) SCROLL FLASH B | switches between the Single 75, Double and Neobe flash rates, every two cycles of a pattern. | |

** = CA Title 13 compliant

Flash Patterns, Traffic Direction Modes:

12 Channel Versions

- 1) 12 ELEMENT ARROW FILL *** RED/WHITE and/or BRN/WHITE Wires (all Arrow Modes) DEFAULT, SINGLE FLASH
- 2) 12 ELEMENT ARROW TRAIL
- 3) 10 ELEMENT ARROW FILL, WARNING LAMPS OFF
- 4) 10 ELEMENT ARROW TRAIL, WARNING LAMPS OFF
- 5) 10 ELEMENT ARROW FILL with 2 Warning (SINGLE OUTBOARD) ALTERNATING
- 6) 10 ELEMENT ARROW TRAIL with 2 Warning (SINGLE OUTBOARD) ALTERNATING
- 7) 10 ELEMENT ARROW FILL with 2 Warning (SINGLE OUTBOARD) SIMULTANEOUS
- 8) 10 ELEMENT ARROW TRAIL with 2 Warning (SINGLE OUTBOARD) SIMULTANEOUS
- 9) 8 ELEMENT ARROW FILL, WARNING LAMPS OFF
- 10) 8 ELEMENT ARROW TRAIL, WARNING LAMPS OFF
- 11) 8 ELEMENT ARROW FILL with 4 Warning (DUAL OUTBOARD) ALTERNATING
- 12) 8 ELEMENT ARROW TRAIL with 4 Warning (DUAL OUTBOARD) ALTERNATING
- 13) 8 ELEMENT ARROW FILL with 4 Warning (DUAL OUTBOARD) SIMULTANEOUS
- 14) 8 ELEMENT ARROW TRAIL with 4 Warning (DUAL OUTBOARD) SIMULTANEOUS

10 Channel Versions

- 1) 10 ELEMENT ARROW FILL *** RED/WHITE and/or BRN/WHITE Wires (all Arrow Modes) DEFAULT, SINGLE FLASH
- 2) 10 ELEMENT ARROW TRAIL
- 3) 8 ELEMENT ARROW FILL, WARNING LAMPS OFF
- 4) 8 ELEMENT ARROW TRAIL, WARNING LAMPS OFF
- 5) 8 ELEMENT ARROW FILL with 2 Warning (SINGLE OUTBOARD) ALTERNATING
- 6) 8 ELEMENT ARROW TRIAL with 2 Warning (SINGLE OUTBOARD) ALTERNATING
- 7) 8 ELEMENT ARROW FILL with 2 Warning (SINGLE OUTBOARD) SIMULTANEOUS
- 8) 8 ELEMENT ARROW TRAIL with 2 Warning (SINGLE OUTBOARD) SIMULTANEOUS
- 9) 6 ELEMENT ARROW FILL, WARNING LAMPS OFF
- 10) 6 ELEMENT ARROW TRAIL, WARNING LAMPS OFF
- 11) 6 ELEMENT ARROW FILL with 4 Warning (DUAL OUTBOARD) ALTERNATING
- 12) 6 ELEMENT ARROW TRAIL with 4 Warning (DUAL OUTBOARD) ALTERNATING
- 13) 6 ELEMENT ARROW FILL with 4 Warning (DUAL OUTBOARD) SIMULTANEOUS
- 14) 6 ELEMENT ARROW TRAIL with 4 Warning (DUAL OUTBOARD) SIMULTANEOUS

8 Channel Versions

- 1) 8 ELEMENT ARROW FILL *** RED/WHITE and/or BRN/WHITE Wires (all Arrow Modes) DEFAULT, SINGLE FLASH
- 2) 8 ELEMENT ARROW TRAIL
- 3) 6 ELEMENT ARROW FILL, WARNING LAMPS OFF
- 4) 6 ELEMENT ARROW TRAIL, WARNING LAMPS OFF
- 5) 6 ELEMENT ARROW FILL with 2 Warning (SINGLE OUTBOARD) ALTERNATING
- 6) 6 ELEMENT ARROW TRAIL with 2 Warning (SINGLE OUTBOARD) ALTERNATING
- 7) 6 ELEMENT ARROW FILL with 2 Warning (SINGLE OUTBOARD) SIMULTANEOUS
- 8) 6 ELEMENT ARROW TRAIL with 2 Warning (SINGLE OUTBOARD) SIMULTANEOUS

6 Channel versions

- 1) 6 ELEMENT ARROW FILL *** RED/WHITE and/or BRN/WHITE Wires (all Arrow Modes) DEFAULT, SINGLE FLASH
 - 2) 6 ELEMENT ARROW TRAIL
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