

# TOMAR

## Instruction Manual

---



**R<sup>13</sup><sub>14</sub>L-STICKS**

*Mini LED Lightstick Series*

IS0553-05  
03.29.2016

TOMAR Electronics, Inc.  
2100 W. Obispo Ave.  
Gilbert, AZ 85233 USA

800.338.3133 ph  
800.688.6627 fax

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

---

## L-Stick Wiring

<b>Red</b>	+12Vdc
<b>Black</b>	Ground
<b>Orange</b>	Warning Mode 1
<b>Blue</b>	Warning Mode 2
<b>Orange &amp; Blue</b>	Warning Mode 3
<b>Red/White</b>	Right Arrow
<b>Brown/White</b>	Left Arrow
<b>Red/White &amp; Brown/White</b>	Center Out
<b>Brown</b>	N/A
<b>Green</b>	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 Patterns, Warning Modes (All Versions):**

- 1) OFF
- 2) COMBINATION *\*\* DEFAULT SCROLL FLASH*
- 3) INBOARD OUTBOARD
- 4) LEFT RIGHT
- 5) ALTERNATE
- 6) RANDOM
- 7) SINGLE OUTBOARD
- 8) DOUBLE OUTBOARD
- 9) SINGLE INBOARD
- 10) DOUBLE INBOARD
- 11) TRIPLE INBOARD (not available on 6 lamp versions)
- 12) SWEEP

**Flash Rates (All Versions):**

- 1) SINGLE FLASH
- 2) DOUBLE FLASH
- 3) NEOBE FLASH
- 4) SCROLL FLASH WARNING PATTERNS

**Flash Patterns, Traffic Direction Modes:**

12 Channel Versions

- 1) 12 ELEMENT ARROW TRAIL
- 2) 12 ELEMENT ARROW FILL *\*\*\* DEFAULT SINGLE FLASH*
- 3) 10 ELEMENT ARROW TRAIL, WARNING LAMPS OFF
- 4) 10 ELEMENT ARROW FILL, WARNING LAMPS OFF
- 5) 10 ELEMENT ARROW TRAIL with 2 Warning (SINGLE OUTBOARD) ALTERNATING
- 6) 10 ELEMENT ARROW FILL with 2 Warning (SINGLE OUTBOARD) ALTERNATING
- 7) 10 ELEMENT ARROW TRAIL with 2 Warning (SINGLE OUTBOARD) SIMULTANIOUS
- 8) 10 ELEMENT ARROW FILL with 2 Warning (SINGLE OUTBOARD) SIMULTANIOUS
- 9) 8 ELEMENT ARROW TRAIL, WARNING LAMPS OFF
- 10) 8 ELEMENT ARROW FILL, WARNING LAMPS OFF
- 11) 8 ELEMENT ARROW TRAIL with 4 Warning (DUAL OUTBOARD) ALTERNATING
- 12) 8 ELEMENT ARROW FILL with 4 Warning (DUAL OUTBOARD) ALTERNATING
- 13) 8 ELEMENT ARROW TRAIL with 4 Warning (DUAL OUTBOARD) SIMULTANIOUS
- 14) 8 ELEMENT ARROW FILL with 4 Warning (DUAL OUTBOARD) SIMULTANIOUS

### 10 Channel Versions

- 1) 10 ELEMENT ARROW TRAIL, WARNING LAMPS OFF
- 2) 10 ELEMENT ARROW FILL, WARNING LAMPS OFF \*\*\* DEFAULT SINGLE FLASH
- 3) 8 ELEMENT ARROW TRAIL, WARNING LAMPS OFF
- 4) 8 ELEMENT ARROW FILL, WARNING LAMPS OFF
- 5) 8 ELEMENT ARROW TRAIL with 2 Warning (SINGLE OUTBOARD) ALTERNATING
- 6) 8 ELEMENT ARROW FILL with 2 Warning (SINGLE OUTBOARD) ALTERNATING
- 7) 8 ELEMENT ARROW TRAIL with 2 Warning (SINGLE OUTBOARD) SIMULTANIOUS
- 8) 8 ELEMENT ARROW FILL with 2 Warning (SINGLE OUTBOARD) SIMULTANIOUS
- 9) 6 ELEMENT ARROW TRAIL, WARNING LAMPS OFF
- 10) 6 ELEMENT ARROW FILL, WARNING LAMPS OFF
- 11) 6 ELEMENT ARROW TRAIL with 4 Warning (DUAL OUTBOARD) ALTERNATING
- 12) 6 ELEMENT ARROW FILL with 4 Warning (DUAL OUTBOARD) ALTERNATING
- 13) 6 ELEMENT ARROW TRAIL with 4 Warning (DUAL OUTBOARD) SIMULTANIOUS
- 14) 6 ELEMENT ARROW FILL with 4 Warning (DUAL OUTBOARD) SIMULTANIOUS

### 8 Channel Versions

- 1) 8 ELEMENT ARROW TRAIL
- 2) 8 ELEMENT ARROW FILL \*\*\* DEFAULT SINGLE FLASH
- 3) 6 ELEMENT ARROW TRAIL with 2 Warning (SINGLE OUTBOARD) ALTERNATE
- 4) 6 ELEMENT ARROW FILL with 2 Warning (SINGLE OUTBOARD) SIMULTANIOUS

### 6 Channel versions

- 1) 6 LED TRAIL ARROW
  - 2) 6 LED FILL ARROW \*\*\* DEFAULT SINGLE FLASH
-