

# TOMAR

## Instruction Manual

---



### *975L-1602 Scorpion Half-Bar*

IS0619-01  
10.12.2016

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)



---

## 975L-1602 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>	Not Used
<b>BROWN/WHITE</b>	Not Used
<b>RED/WHITE &amp; BROWN/WHITE</b>	Not Used
<b>BROWN</b>	Scene Lights (if equipped)
<b>GREEN</b>	Intensity Control

---

## Programming Instructions

### Entering Warning Programming Mode:

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

ORANGE WIRE = Warning Mode 1

BLUE WIRE = Warning Mode 2

ORANGE & BLUE WIRES = Warning Mode 3

To activate the 975L-1602 Warning programming mode, connect the BLACK wire to Ground then simultaneously attach the GREEN wire, the RED wire and the mode selection wire(s) for the mode you want to program to +12Vdc.

### Changing Warning Patterns and Flash Rates:

To change the Warning pattern, enter the Warning programming mode as described above, including selecting a mode. Tap the RED/WHITE wire to +12Vdc to advance the flash pattern. See the list of available Warning flash patterns below.

A unique flash rate can be assigned to each Warning mode. To change the flash rate, enter the Warning programming mode as described above, including selecting a mode. 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.

---

### Flash Rates:

- 1) SINGLE FLASH
- 2) DOUBLE FLASH
- 3) NEOBE FLASH
- 4) SCROLL FLASH - switches between the Single, Double and Neobe flash rates:  
for Warning patterns, every 4 seconds  
for Traffic Direction patterns, every two cycles of a pattern

### Flash Patterns, Warning Modes - Model 1602-01

- 1) OFF
- 2) COMBINATION (*Patterns 3,4 repeat*) \*\*\* ORANGE Wire (*Warning Mode 1*) DEFAULT, SCROLL FLASH
- 3) LEFT RIGHT \*\*\* BLUE Wire (*Warning Mode 2*) DEFAULT, SCROLL FLASH
- 4) SIMULTANEOUS \*\*\* ORANGE & BLUE Wires (*Warning Mode 3*) DEFAULT, SCROLL FLASH

### Flash Patterns, Warning Modes - Model 1602-C01

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

### Flash Patterns, Warning Modes - Model 1602-02

1) OFF		
2) COMBINATION ( <i>Patterns 5,4,5,4 repeat</i> )	WITH SL's	*** ORANGE Wire (Warning Mode 1) DEFAULT, SCROLL FLASH
3) COMBINATION 2 ( <i>Patterns 9,8,10,18 repeat</i> )	WITHOUT SL's	*** BLUE Wire (Warning Mode 2) DEFAULT, SCROLL FLASH
4) LEFT RIGHT	WITH SL's	*** ORANGE & BLUE Wires (Warning Mode 3) DEFAULT, SCROLL FLASH
5) ALTERNATE	WITH SL's	
6) RANDOM	WITH SL's	
7) SWEEP	WITH SL's	
8) LEFT RIGHT	WITHOUT SL's	
9) ALTERNATE	WITHOUT SL's	
10) RANDOM	WITHOUT SL's	
11) SWEEP	WITHOUT SL's	

### Flash Patterns, Warning Modes - Model 1602-C02

1) OFF		
2) COMBINATION ( <i>Patterns 6,5,7,5 repeat</i> )	WITH SL's	*** ORANGE Wire (Warning Mode 1) DEFAULT, SCROLL FLASH
3) COMBINATION 2 ( <i>Patterns 12,11,13,11 repeat</i> )	WITHOUT SL's	*** BLUE Wire (Warning Mode 2) DEFAULT, SCROLL FLASH
4) INBOARD OUTBOARD	WITH SL's	
5) LEFT RIGHT	WITH SL's	*** ORANGE & BLUE Wires (Warning Mode 3) DEFAULT, SCROLL FLASH
6) ALTERNATE	WITH SL's	
7) RANDOM	WITH SL's	
8) SINGLE OUTBOARD	WITHOUT SL's	
9) SWEEP	WITH SL's	
10) INBOARD OUTBOARD	WITHOUT SL's	
11) LEFT RIGHT	WITHOUT SL's	
12) ALTERNATE	WITHOUT SL's	
13) RANDOM	WITHOUT SL's	
14) SWEEP	WITHOUT SL's	

### Flash Patterns, Traffic Direction Modes - Models 1602-01, 1602-02, 1602-C01, 1602-C02

NONE

