

**970x-67E-xx NFPA LIGHTBAR**

**FACTORY SET FLASH PATTERNS**

**Progressive Slide Switch application**

**Mode 1:** +12 Vdc **ORANGE** Control Wire Activated

Front Warning Lamps: Inboard / Outboard - Single Flash 75

Rear Warning Lamps: N/A

Side Warning Lamps: Alternating Front / Rear, Both Sides Concurrently - Single Flash 75

**Side Color Flashing (with Side Warning pattern)**

**Mode 2:** +12 Vdc **ORANGE & BLUE** Control Wires Activated

Front Warning Lamps: Combination - Double Flash 110

Rear Warning Lamps: N/A

Side Warning Lamps: Alternating Left / Right, Front and Rear Lamps Concurrently - Double Flash 110

**Side Color Flashing (with Side Warning pattern)**

**Mode 3:** +12 Vdc **ORANGE & BLUE & WHITE/BLACK** Control Wires Activated

Front Warning Lamps: Combination - Double Flash 110

Rear Warning Lamps: N/A

Side Warning Lamps: Alternating Left / Right, Front and Rear Lamps Concurrently - Double Flash 110

**Side Color Flashing (with Side Warning pattern)**

**Independent Switch application:**

**Mode A:** +12 Vdc **ORANGE** Control Wire Activated

*Progressive Slide Mode 1 configuration above, is MODE A*

**Mode B:** +12 Vdc **BLUE** Control Wire Activated

*same configuration as Progressive Slide Mode 2 above*

**Mode C:** +12 Vdc **WHITE/BLACK** Control Wire Activated

*same configuration as Progressive Slide Mode 3 above*

**Mode D:** +12 Vdc **ORANGE & BLUE** Control Wires Activated

*Progressive Slide Mode 2 configuration above, is MODE D*

**Mode E:** +12 Vdc **ORANGE & WHITE/BLACK** Control Wires Activated

*same configuration as Progressive Slide Mode 1 above*

**Mode F:** +12 Vdc **BLUE & WHITE/BLACK** Control Wires Activated

*same configuration as Progressive Slide Mode 3 above*

**Mode G:** +12 Vdc **ORANGE & BLUE & WHITE/BLACK** Control Wires Activated

*Progressive Slide Mode 3 configuration above, is MODE G*

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**CONTROL & POWER WIRES**

Red	+12 Vdc Power
Black	GROUND
Orange	Mode A Control (Progressive Slide Mode 1)
Blue	Mode B Control
White/Black	Mode C Control
Orange & Blue	Mode D Control (Progressive Slide Mode 2)
Orange & White/Black	Mode E Control
Blue & White/Black	Mode F Control
Orange & Blue & White/Black	Mode G Control (Progressive Slide Mode 3)
Green	LED Low Intensity
Brown	Not Used
White	California Steady
Gray	Not Used
Yellow	Not Used
Red	Not Used
Violet	Parking Brake Warning Mode Override to Mode A
Red/White	Not Used
Brown/White	Not Used
Red/White & Brown/White	Not Used
Pink	Not Used
Red/Black	Not Used
Red/Green	Not Used
Red/Yellow	Not Used
Tan	Not Used
White/Blue	Not Used

**Mode Activation:** All control wires, except Green and Violet, are +12 VDC activated. The Green wire (LED Low Intensity) is GROUND activated. The Violet wire (Parking Brake Warning Override) is configurable for +12 VDC or GROUND (default) activation. The Parking Brake Warning Override is always Non-Latching.

**FUNCTION PRIORITIES - WIRED**

California Steady	Highest Priority
LED Low Intensity	
Warning Mode	Lowest Priority

**NOTE:** Activating the Violet wire will override the Warning Mode, switching to Mode A/Progressive Slide Mode 1, if a Warning Mode other than Off or Mode A is currently activated.

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**DIGITAL CONTROL**

Red	+12 Vdc Power
Black	GROUND
Orange	California Steady
Brown	Parking Brake Warning Mode Override to Mode A
DCP 1 Button	Not Used
DCP 2 Button	Not Used
DCP 3 Button	Not Used
DCP 4 Button	California Steady
DCP 5 Button	Not Used
DCP 6 Button	Not Used

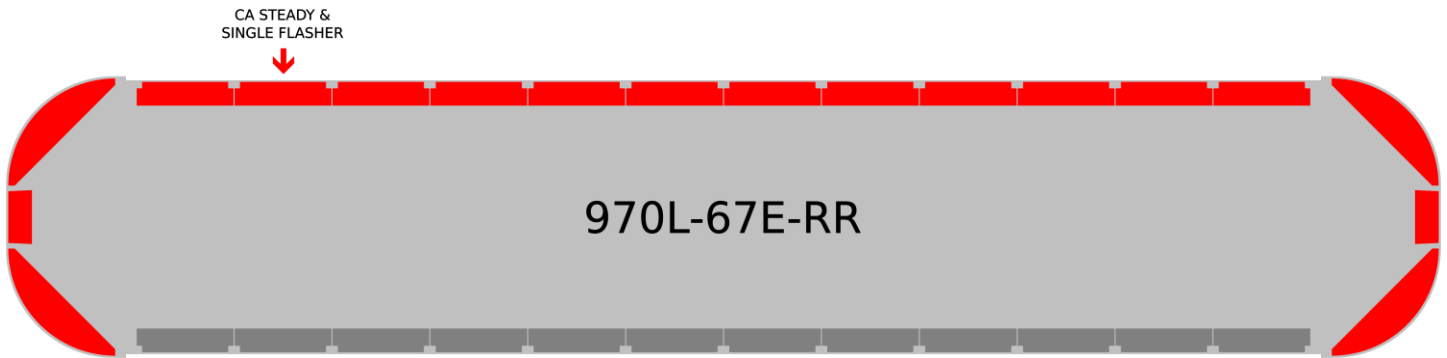
**Mode Activation:** The Orange wire is +12 VDC activated. The Brown wire (Parking Brake Warning Override) is configurable for +12 VDC or GROUND (default) activation. The Parking Brake Warning Override is always Non-Latching.

**FUNCTION PRIORITIES - DIGITAL**

California Steady	Highest Priority
LED Low Intensity	
Warning Mode	Lowest Priority

**NOTE:** Activating the Brown wire will override the Warning Mode, switching to Mode A/Progressive Slide Mode 1, if a Warning Mode other than Off or Progressive Slide Mode 1 is currently activated.

**Example Layout for 970L-67E-RR**



**970x-67E-xx NFPA LIGHTBAR**

**FRONT WARNING LAMP PATTERNS:**

- 1) OFF
- 2) COMBINATION (PATTERN 5, 4, 3, 4, REPEAT)
- 3) INBOARD / OUTBOARD
- 4) LEFT / RIGHT
- 5) ALTERNATING
- 6) RANDOM
- 7) SINGLE OUTBOARDS ONLY
- 8) DUAL OUTBOARDS ONLY
- 9) SINGLE FLASHER
- 10) SINGLE INBOARDS ONLY
- 11) DUAL INBOARDS ONLY
- 12) ALL ON
- 13) SWEEP (TRAILING ARROW / ALTERNATING L-R)

**Note:** All patterns can be programmed to operate with or without (default) a CA Steady lamp. In Program Mode, tap the Violet wire (Wired control) or Brown wire (Digital control) to GROUND to toggle the CA Steady functionality On and Off.

**REAR WARNING LAMP PATTERNS (ALL BLANK, N/A):**

N/A

**SIDE WARNING LAMP PATTERNS:**

- 1) OFF
- 2) ALTERNATING LEFT / RIGHT, REAR SIDE LAMPS ONLY
- 3) ALTERNATING LEFT / RIGHT, FRONT SIDE LAMPS ONLY
- 4) ALTERNATING FRONT / REAR, BOTH SIDES CONCURRENTLY
- 5) ALTERNATING LEFT / RIGHT, FRONT / REAR LAMPS CONCURRENTLY

**Note:** All patterns can be programmed to operate with or without flashing ALLEYS.

**FLASH RATES:**

- 1) SINGLE FLASH (75 FPM)
- 2) DOUBLE FLASH (110 FPM)
- 3) NEOBE® FLASH (64 FPM)
- 4) SCROLL FLASH WARNING PATTERNS (4 SECONDS EACH OF ALL RATES)

**NOTE:** Each section of the lightbar can operate at different flash rates in the same mode **and/or** the lightbar can operate at different flash rates in each mode.