

**970x-58DTP-xxW 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: Inboard / Outboard - Single Flash 75

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

**Front White TD's Off**

**Side Whites Off**

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

Front Warning Lamps: Combination - Double Flash 110

Rear Warning Lamps: Combination - Double Flash 110

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

**Front White TD's Flashing**

**Side Whites Flashing**

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

Front Warning Lamps: Combination - Double Flash 110

Rear Warning Lamps: Combination - Double Flash 110

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

**Front White TD's Flashing**

**Side Whites Flashing**

**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 3 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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**Traffic Directional Modes:**

**Left Mode:** +12 Vdc **BRN/WHT** Control Wires Activated

Front Warning Lamps: N/A  
Rear Warning Lamps: *LEFT ARROW 7 FULL- Single Flash*  
Side Warning Lamps: N/A

**Right Mode:** +12 Vdc **RED/WHT** Control Wires Activated

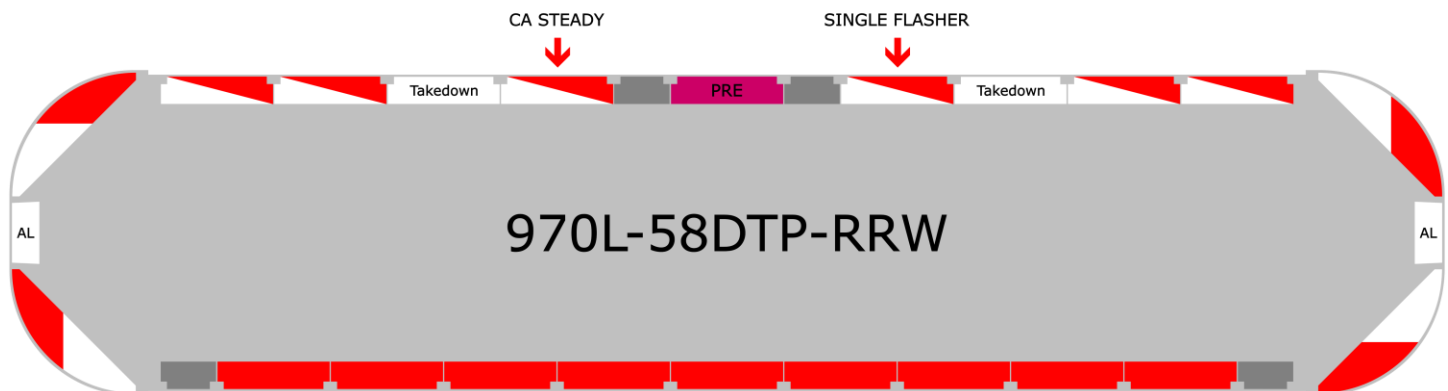
Front Warning Lamps: N/A  
Rear Warning Lamps: *RIGHT ARROW 7 FULL- Single Flash*  
Side Warning Lamps: N/A

**Center Out Mode:** +12 Vdc **BRN/WHT & RED/WHT** Control Wires Activated

Front Warning Lamps: N/A  
Rear Warning Lamps: *CENTER OUT 7 FULL - Single Flash*  
Side Warning Lamps: N/A

**NOTE:** Traffic Directional Mode activation overrides any currently activated Rear Warning Modes. Traffic Direction Mode activation does not override any currently activated Front or Side Warning Modes.

**Example Layout for 970x-58DTP-RRW**



**970x-58DTP-xxW NFPA LIGHTBAR**

**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	Takedowns and Front White Override
White	California Steady (not overridden by Takedowns and Front Whites)
Gray	Driver Alley and/or Driver Side White Override
Yellow	Passenger Alley and/or Passenger Side White Override
Red	Preemption Emitter Enable
Violet	Preemption Parking Brake Shutoff and Warning Mode Override to Mode A
Red/White	Right Arrow Traffic Directional
Brown/White	Left Arrow Traffic Directional
Red/White & Brown/White	Center-Out Arrow Traffic Directional
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 Shutoff) is configurable for +12 VDC or GROUND (default) activation. The Parking Brake Shutoff mode (for Preemption Emitter) is configurable as Latching or Non-Latching (default), for Warning Override the mode is always Non-Latching.

**FUNCTION PRIORITIES - WIRED**

California Steady	Highest Priority
Takedowns (and Front Whites of Dual Color lamps)	
Passenger Alley (and Passenger Corner Whites)	
Driver Alley (and Driver Corner Whites)	
LED Low Intensity	
Warning Mode	Lowest Priority

**NOTE:** Activating the Violet wire will, A) Shutoff the Preemption Emitter if it has been activated, and B) 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	Preemption Emitter Enable
Brown	Preemption Parking Brake Shutoff and Warning Mode Override to Mode A
DCP 1 Button	Driver Alley (and Driver Corner Whites)
DCP 2 Button	Passenger Alley (and Passenger Corner Whites)
DCP 3 Button	Takedowns (and Front Whites of Dual Color lamps)
DCP 4 Button	Not Used
DCP 5 Button	Not Used
DCP 6 Button	Not Used

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

**FUNCTION PRIORITIES - DIGITAL**

California Steady	Highest Priority
Takedowns (and Front Whites of Dual Color lamps)	
Passenger Alley (and Passenger Corner Whites)	
Driver Alley (and Driver Corner Whites)	
LED Low Intensity	
Warning Mode	Lowest Priority

**NOTE:** Activating the Brown wire will, A) Shutoff the Preemption Emitter if it has been activated, and B) 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.

**970x-58DTP-xxW 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 flashing TAKEDOWNS.

**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, Non Used):**

- 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 INBOARDS ONLY
- 10) DUAL INBOARDS ONLY
- 11) TRIPLE INBOARDS ONLY
- 12) ALL ON
- 13) SWEEP (TRAILING ARROW / ALTERNATING L-R)

**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 (and White Corners).

**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.

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**REAR TRAFFIC DIRECTION LAMP PATTERNS (DRx and PRx LAMPS):**

- 1) 9 ELEMENT FILL ARROW (Default)
- 2) 9 ELEMENT TRAIL ARROW
- 3) 7 ELEMENT FILL ARROW
- 4) 7 ELEMENT TRAIL ARROW

**Note:** Patterns 3 and 4 can be programmed with SINGLE ALTERNATING or SINGLE SIMULTANEOUS OUTBOARDS.

**TRAFFIC DIRECTION FLASH RATES:**

- 1) SINGLE FLASH
- 2) DOUBLE FLASH
- 3) NEOBE® FLASH
- 4) SCROLL FLASH WARNING PATTERNS (2 CYCLES OF PATTERN)

**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.