

Dialight



48 VDC LED Signal Modules

48 VDC Low Power LED Traffic Signal Modules

Dialight's new 48VDC low power LED traffic signal modules have been designed for the next generation of traffic signal control. 48VDC traffic control systems are relatively new and have been designed for use with LED traffic signal modules. Since the 48VDC LEDs do not need to be backward compatible to older traffic control systems, it allows for the product to be designed more efficiently and offer power reductions of up to 40% vs. the current 120VAC products.

- Simplified battery back-up by eliminating the need to supply 120VAC to the LED signals
- Lower power consumption for extended battery back-up operation
- Increased signal technician safety by eliminating some of the need to work with 120VAC
- Increased safety in the event of a knock-down with the elimination of live 120VAC wires at the pole.
- Modules fit existing traffic signal heads—no need to replace the existing installed signal heads.



UNIFORM APPEARANCE

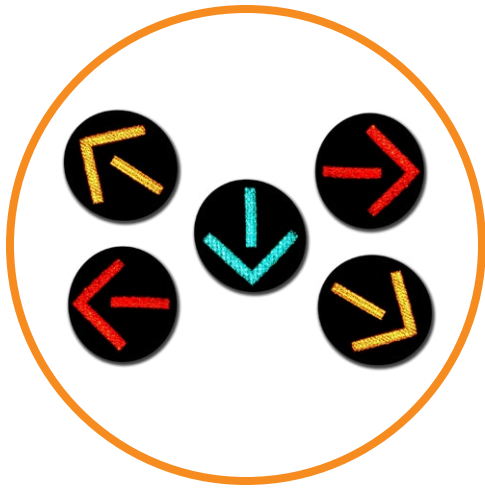
8" / 12" LED Traffic Ball Signal Modules

Features & Benefits

- Industry's lowest power for all colors
- Manufactured with anti-capillary wires
- Meets or exceeds ITE intensity, color & uniformity specs, including 49°C/74°C requirements at 48VDC
- Conformal coated power supply
- Temperature compensated power supplies for longer LED life
- Secondary lens treatment for abrasion resistance
- Uniform appearance
- Patent No. 7,281,818 and other patents pending
- Expanded view radiation pattern suitable for span wire and steep grade applications
- All units operate at 36–60VDC

Color	Part Number		Dominant Wavelength (nm)	Typical Wattage at 25 °C	Peak Minimum Maintained Luminous Intensity (cd)	Meets ITE VTC SH LED Circular Signal Supplement*
	Tinted Lens	Clear Lens				
8" Module						
● Red	433-1110-009XL	433-1170-009XL	625	2	165	•
● Yellow	433-3130-909XL	433-3170-909XL	590	5	410	•
● Green	433-2120-009XL	433-2170-009XL	500	4	215	•
12" Module						
● Red	433-1210-009XL	433-1270-009XL	625	4	365	•
● Yellow	433-3230-909XL	433-3270-909XL	590	7	910	•
● Green	433-2220-009XL	433-2270-009XL	500	4	475	•

* For color and intensity



UNIFORM APPEARANCE

12" Omni-Directional LED Arrow

Features & Benefits

- Allows for mounting in any orientation in the signal head
- Industry's lowest power for all colors
- Meets or exceeds ITE intensity, color & uniformity spec, including 49°C/74°C requirements at 48VDC
- Temperature compensated power supplies for longer LED life
- Uniform appearance
- Manufactured with anti-capillary wires
- Conformal coated power supply
- Secondary lens treatment for abrasion resistance
- All units operate at 36–60VDC

Color	Part Number		Dominant Wavelength (nm)	Typical Wattage at 25 °C	Peak Minimum Maintained Luminous Intensity (cd)	Meets ITE VTCSH LED Circular Signal Supplement*
	Tinted Lens	Clear Lens				
● Red	432-1314-009XOD	432-1374-009XOD	625	3	58.6	•
● Yellow	431-3334-909XOD	431-3374-909XOD	590	4	141.6	•
● Green	432-2324-009XOD	432-2374-009XOD	500	3	73.9	•

* For color and intensity



UNIFORM APPEARANCE

Countdown Pedestrian Signals

Features & Benefits

- MUTCD compliant for countdown applications
- Meets or exceeds ITE intensity, color & uniformity spec, including 49°C/74°C requirements at 48VDC
- Full preemption compatibility
- Up to 8 units can be connected in parallel without affecting the monitoring of the Hand/Person
- Manufactured with anti-capillary wires
- Reduced off state icon visibility results in increased pedestrian safety by eliminating the potential to misinterpret the signal
- Conformal coated power supply
- New improved one piece housing design
- Improved optical design to provide superior uniform appearance of the icons
- All units operate at 36–60VDC

Part Number	Housing Size	Symbol Color			Typical Wattage at 25 °C			Min. Luminance (cd/m2)			Meets ITE VTCSH LED Circular Signal Supplement*
		Countdown	Hand	Person	Countdown	Hand	Person	Countdown	Hand	Person	
430-6479-009X	16 x 18	Portland Orange	Portland Orange	Lunar White	5	8	5	1,400	1,400	2,200	•

* For color and intensity



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