Dialight

IntelliLED®

Hi-Flux LED Traffic Signal Modules

FEATURES / BENEFITS

- The signal's intelligence is constantly monitoring all of the critical parameters that contribute to degradation of LED intensity such as temperature, drive current and the number of hours of operation. When the Intelli**LED**® signal reaches a point that it can no longer maintain the required intensity, it will give a subtle but clear TTC (Time-to-Change) visual indication by the way it turns on.
- To address the "Green Glare" issue, Intelli**LED**® signals offer dimming that is fully compatible to "Phase Cut" dimming used with conventional incandescent NEMA TS1 & TS2 controllers.
- Utilizes Hi-Flux technology to achieve a very uniform appearance, similar to but better than the incandescent signals they replace.
- Consumes up to 40% less power than conventional LED signals, and over 90% less power than incandescent signals.
- Long life; Up to 10 times longer than incandescent signals.

SPECIFICATIONS

- Operating Voltage Range: 80VAC to 135VAC (120VAC nominal)
- Convex tinted lens reduces glare & sun reflection
- Fuse and transient suppressor incorporated for line and load protection
- Operating Temperature Range: -40°C to +74°C
- Turn-On/Turn-Off Time = 75 msec max
- Power Factor > 0.9
- Total Harmonic Distortion < 20%
- Meets ITE VTCSH-2 Specification
- Meets FCC Title 47, Subpart B, Section 15 Regulations for electrical noise
- Conforms to MIL-STD-810F for blowing rain
- Provided with quick connect terminals and spade adapters
- Written manufacturer's warranty available upon request
- All products traceable by serial number

Dialight Corporation

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12” (300mm) SIGNALS

Part Number	Color	Dimming	TTC*	Expanded View	Lens Type	Initial Typical Wattage at 25°C	Dim Mode Typical Wattage at 25°C	Dominant Wavelength (nm)
433-1210-401	Red		✔		Tinted	5	N/A	622
433-2220-601	Green	✔	✔		Tinted	13	5	505
433-2270-601	Green	✔	✔		Clear	13	5	505
435-1210-401	Red		✔	✔	Tinted	6	N/A	622
435-2220-601	Green	✔	✔	✔	Tinted	16	6	505
435-2270-601	Green	✔	✔	✔	Clear	16	6	505

* TTC = Time-to-Change

The signal’s intelligence reduces power consumption up to 40% over conventional LED signals by maintaining the optimum drive characteristics, and by enabling nighttime dimming of the green signals.

Typical Power Comparisons in Watts (@ 25°C)

Color	Duty Cycle	Traditional LED Signal	IntelliLED™ Signal
Red	55%	11	5
Yellow	5%	20	12
Green	40%	12	12*
Weighted Average		12	8*

* Assumes Green Dimming for 8 hours per day

NOTE: Yellow power values are for calculation purposes. The IntelliLED® signal is currently available in Red and Green.

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