

DINEX™ Lighting System

The I/O Controls LED based DINEX Lighting System is a highly efficient next-generation lighting solution for transit vehicles. The system has been specifically designed to increase passenger comfort and safety. The solid state high power LEDs are expected to maintain on average 60-70% of original output brightness after 60,000 hours of operation, which can dramatically reduce maintenance and operating cost.

The DINEX Lighting System is an intelligent network controlled by the multiplex system. The DINEX Lighting System is designed for unlimited number of on-off cycles with no decline in service life.

Using a built-in photo sensor the light will operate at 100% capacity during the night, while automatically dimming to 60% capacity during the day. If high temperatures occur then the lights will automatically go to the dim setting. If high temperatures persist the lights will shut down to prevent damage to the lighting components.

The lighting fixtures have been designed for easy installation.



UNIQUE ADVANTAGES

Increased passenger comfort

- Smooth and comfort lighting
- Soft fade in/fade out courtesy light
- Reduced glare by directing light to reading plane and floor.

Increased passenger safety

- Optional emergency backup lighting system for quick evacuation.*

Decreased operating cost

- Long life Nichia or Philips high power LEDs with 12 years or 500,000 miles of expected operating life with unlimited on-off cycles.
- Reduced battery consumption by automatically adjusting light level based on ambient light, minimize power drain by interior lighting when the engine and alternator are not running.
- Easy lens cleaning*
- Reduced wire harness as a result of simple daisy-chain cable connection between adjacent light fixtures*
- Built-in self protection features such as automatic thermal shut-down and restart, PWM output to regulate current*

* Patent pending

