



LED Lighting Upgrade Kit

- **Next-generation lighting system functionality**
- **Increased passenger comfort and safety**
- **Direct fluorescent replacement**
- **Reliability**
- **Low maintenance and operating costs**
- **Environment friendly**

Saving Money has never been so easy

I/O Controls Corporation is continuing to change the way people look at transit lighting. That's why we strive to continue improving our LED Lighting system for transit vehicles year after year. The DINEX™ LED Lighting upgrade kit has been specifically designed to provide seamless integration to the fluorescent system by allowing easy installation and direct fluorescent replacement. Furthermore, it also maximizes the reliability of the interior lighting and keeps maintenance operation cost

Increased Passenger Comfort and Safety Added peace of mind

DINEX™ LED Lighting System uses high quality LEDs and enforces stringent bin control to provide better light output, uniformity, consistency and thus be more pleasant to the eye. All of the benefits above are all implemented in our product to further enhance the passenger's transit experience.

Direct Fluorescent Replacement Plug-n-play installation

The lighting fixtures have been designed for easy installation. No modifications are needed to install the lighting fixtures to the vehicle. The light fixtures are available in standard lengths (2, 3, 4, 5 or 6 feet length). The light fixture uses all existing wiring harnesses. Easy-to-use mounting pin and fewer system components allow for quick and simple assembly on site.



Unique Advantages

- Long life LED with 60,000 hours of expected operating life
- Better light uniformity and consistency
- Four level brightness in 100%, 70%, 50%, and 30%*
- Emergency battery backup lighting system*(optional)
- Over temperature protection*
- Plug-N-play installation
- No ballast required
- Instant on, no warm up time necessary, unlimited number of on-off cycle
- Vibration and shock resistant
- Maintenance free and Environment friendly
- Mercury free, no EMI emissions

* Patent pending

Reliability designed with proven expertise

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 costs. Unlike fluorescent lighting system, the DINEX™ LED Lighting System can provide an instant on and unlimited number of on-off cycles. In addition, the light fixtures are designed to withstand the vibrations and shocks that will happen during an actual road driving. DINEX™ LED Lighting System performance claims are based on a robust design process and rigid testing of the entire system, which adds up to the excellent quality you can rely on.

Maintenance free and environment friendly Long life cycle & lower cost

Some of the benefits of using DINEX™ LED Lighting System are that no EMI emissions, no ballast required on the light fixtures and the LED itself is Mercury free, which will save the overhead cost in handling and storing the fluorescent tubes. The longer life span of an LED lighting system and the low overhead cost will yield an additional cost savings to transit companies.

Specifications

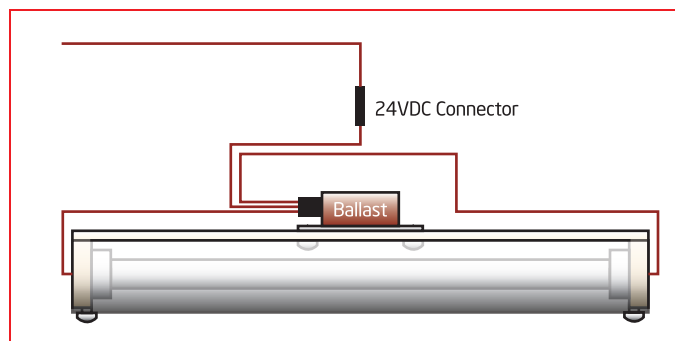
Module	- Standard lengths (available in 2, 3, 4, 5, & 6 feet)
	- Compact rugged aluminum extrusion
Functions	- Single level 100% brightness
	- Four level brightness in 100%, 70%, 50%, and 30% (Optional)
Colors	- Cool white (5,000~5,500K)
Voltages	- 24V DC
Lens	- Semi frosted white (Optional blue lens)
General	- Operating temperature range: -40° C to + 85° C
	- Humidity: 10% to 100%, saturated
	- Shock: up to 20 g
	- Vibration: 5 to 35 Hz, 2mm double amplitude, 2 hours

Warranty

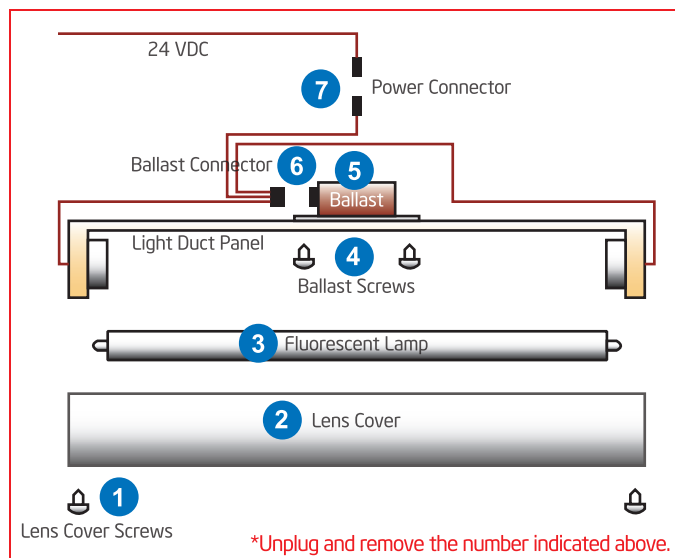
- 6 years limited warranty¹

¹ Does not cover misuse and abuse

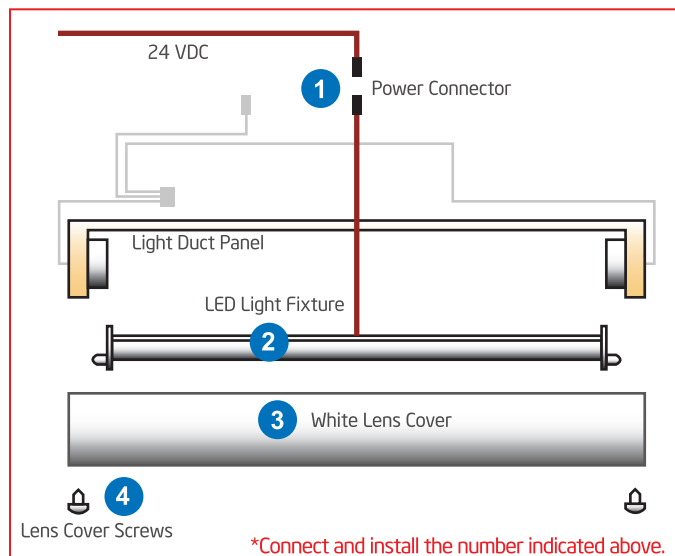
Convert fluorescent lighting system to DINEX™ LED Lighting System



Fluorescent Lighting System



Remove Fluorescent Lighting System



Install DINEX™ LED Lighting System

I/O Controls

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