



Constant Voltage LED Dimmer

The E9X-D02FL Constant Voltage LED Dimmer uses high-resolution PWM technology to control the brightness of Constant Voltage LED fixtures by responding to wireless signals from self-powered wireless switches, wireless sensors and/or central controllers to activate smooth, flicker-free dimming.

The dimmer reduces time and mess of installation, allowing controls to be installed in optimal locations without wiring to switch or sensor locations.



- Wireless PWM dimming
- 65,000 step fluid dimming
- Up to 5A loads
- Stores up to 25 wireless transmitters ID's
- Flying Lead connections
- A Class II LV device



Applications



Retrofitting



New Construction



Classrooms

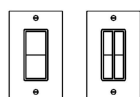
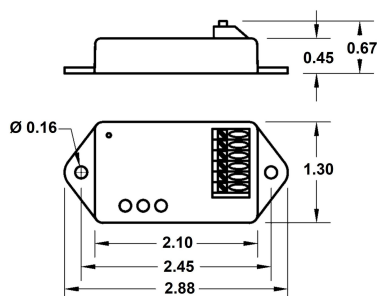


Offices



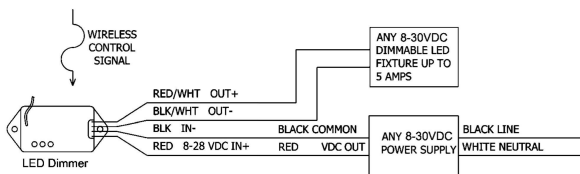
Warehousing

Dimensions:



Battery Free
Wireless Switches,
Occupancy sensors,
etc.

Schematic



Technical Spec:	E9X(NWO-)-D02FL Models
Range	50-150 Feet (typical)
Input Frequency	902 MHz EnOcean Protocol
Output Channel	PWM dimming
Input Power	8-28 Vdc - 40mA (not incl. Load current)
Output Power	C.V. 0-28VDC (5A max)
Operating Temp.	+13°F to +140°F (-25°C to +60°C)
Storage Temp.	+40°F to +140°F (-40°C to +60°C)
Dimensions	2.88"W x 1.30"H x 0.67"D (7.32cm x 3.30cm x 1.70cm)
Certifications	FCC: SZV-TCM300U,C; IC: 5713A-TCM300U,C

Ordering (example: E9X-D02FL):

E9X	-	D	02	FL
E9X = EnOcean 902MHz Transceiver NWO** = Non-Wireless Operation		D = PWM Dimming	02 = Class II Circuit Application	FL = Flying Leads

* NWO version shown with spring contactors.

** Contact ILLUMRA Sales for special order.

This device or certain aspects thereof is protected by at least one U.S. or International patent or has at least one such patent application pending



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COMPATIBILITY

Name	Model	Uses
Single Rocker Wall Switch	E9T-S1Axx	Wireless dimming of a single circuit
Dual Rocker Wall Switch	E9T-S2Axx	Wireless dimming of 2 circuits
4 Button Handheld Remote	E9T-S2Hxx	Portable wireless dimming & scene control
Key Card Switch	E9T-C2AWH	Remote switching based on card insertion
Occupancy Sensor, Ceiling	E9T-OBP	Wireless lighting control based on occupancy



BID SPECIFICATION -

- A. Basis of Design: E9X-D02FL LED Dimming Fixture Controller by ILLUMRA
 1. Standards Compliance:
 - a. UL 60730 (safety), Certified to CAN/CSA C22.2#14-5 (safety) Intertek listed.
 - b. FCC: Part15.231; and IC RSS-210.
 2. Model E9X-D02FL:
 - a. Mounting: (2) machine screws (by others), outside of metal enclosures.
 3. Mechanical:
 - a. Link, Power, and Clear Buttons: For manual linking of switches and sensors.
 - 1) Accessible when Controller is mounted, prior to installing cover on junction box.
 - c. Antenna cover.
 4. Electrical:
 - a. Supply Voltage: 8-28 VDC, 40mA (not including load current)
 - b. Relay Output:
 - 1) LED Driver Loads: 8-30v PWM, 5 Amps max resistive.
 - c. PWM 65K step resolution dimming.
 - d. Radio: 902 MHz EnOcean. Other frequency radios are not acceptable.
 - e. Radio Range: Commercial Office Space: 50 ft (16 m). Open Space: 150 ft (50 m).
 5. Functional:
 - a. Switching and/or low voltage dimming control for individual light fixtures.
 - b. Wireless ILLUMRA switches and sensors for relay control.
 - 1) Link 25 wireless devices in any combination of ILLUMRA switches, sensors, interfaces, or gateways.
 - c. Single or dual-hop wireless signal repeating to other controllers.
 - d. Central Command functions for use with integrated control systems.
 - e. Commissioning and linking through software and/or mechanical means.
 - f. Configuration variables that allow customization of controller's operation with related devices.
 - g. Reporting relay and low voltage channel status wirelessly.
 - h. Save configuration settings and linked device details in non-volatile memory, fully recoverable.
 - i. Provide method of resetting to factory defaults.