POWER BOOSTER

LMPB-100

Plenum-rated controller with switching power supply

Can add power to any DLM Cat5e local network

Supports LMFC fixture-integrated controllers

Designed to mount inside an LMZC-301 zone controller to increase low voltage power to a DLM local network

Plugs to other components using Cat 5e cables with RJ45 connectors eliminating wiring errors

DESCRIPTION

The LMPB-100 Digital Power Booster includes a high-efficiency switching power supply to add power to a DLM local network. It can be used with LMFC fixture controllers or any other Wattstopper Digital Lighting Management (DLM) controllers to allow integration of occupancy sensors, daylighting sensors and switches for energy-efficient lighting control. This device does not include a relay for load control.

OPERATION

The LMPB-100 Power Booster operates on 120/230/277VAC and provides 150mA of Class 2 power to fixture controllers, sensors and switches via the DLM local network. Once all devices are powered up, Plug n' Go™ automatically configures system components for the most energy-efficient operation. Controllers then switch or dim loads in response to input from the communicating devices. The DLM system may be reconfigured using Push n' Learn™ without the need for tools or a PC. One or two power boosters may also be installed in an LMZC zone controller to provide extra power for either or both DLM local networks.

OPTIMIZED FOR USE IN A ZONE CONTROLLER

The LMPB-100 is specifically designed for installation within an LMZC-301 zone controller to boost power on one of the two zone controller DLM Cat5e local networks. Installing the power booster does not affect the temperature rating of the zone controller.

APPLICATIONS

Power boosters are ideal for fixture-integrated lighting control applications, including applications where the likelihood of reconfiguring the space is high. They can be used to supply low voltage power for fixture controllers, either on their own, or installed in zone controllers. Applications include private offices, open offices, conference rooms, lobbies, classrooms, corridors, gymnasiums, etc. in any commercial or educational building.

FEATURES

- Plug n' Go automatic configuration for quick installation and maximum energy savings
- Push n' Learn functionality for personalization without the need for tools or a PC
- Digital Lighting Management components plug together on a free-topology Cat 5e DLM local network
- 3 RJ45 ports with integral strain relief and hinged dust cover
- Attaches to a zone controller or standard electrical box through ½" knockout; UL2043 plenum rated
- Does not require temperature derating when mounted in an LMZC zone controller
- The product meets the materials restrictions of RoHS

PROJECT		LOCATION/ TYPE	

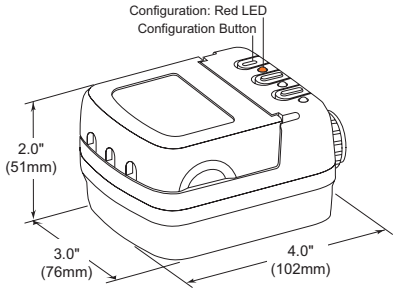
SPECIFICATIONS

- Input/output voltage: 120/230/277VAC, 50/60Hz
- Class 2 output to DLM local network: 24VDC, 150mA across 3 RJ45 ports
- DLM local network parameters:
  - Maximum of (5) 10X-Series power supplies (LMRC-10X, LMPL-101, LMPB-100) per local network.
  - Maximum current: 800mA
  - Maximum cable (Cat5e): 150' per intelligent device on local DLM network, up to 1,000' max.
  - Up to 64 loads
  - Communicating Device Limitation:
    When all power supplies are 10X-Series: 24 Devices.
    When other power supplies are present: 48 Devices.
- Operating conditions: for indoor use only; 32-140°F (0-60°C); 5-95% RH, non-condensing
- UL and cUL listed (E101196), FCC part 15 compliant
- Five-year warranty

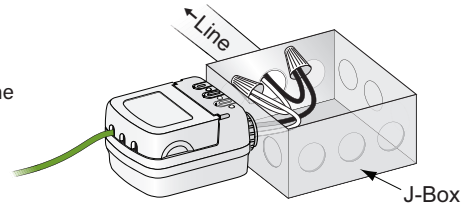
CONTROLS & MOUNTING

Controls, Dimensions, Mounting and Wiring

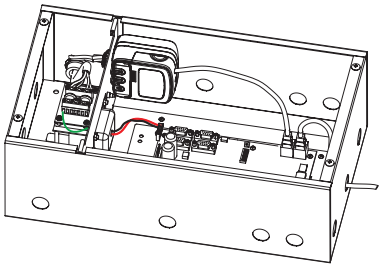
The LMPB-100 includes a 1/2" (12.7mm) threaded nipple and locking ring.



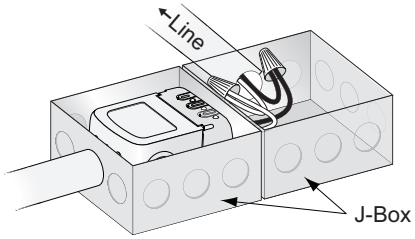
Mounting outside a j-box (plenum space). Two room controllers may be mounted to the j-box.



Mounting inside a zone controller. Two LMPB-100s can be mounted in an LMZC-301 to boost power on both local networks. Each LMPB can connect to only one DLM local network; A or B.



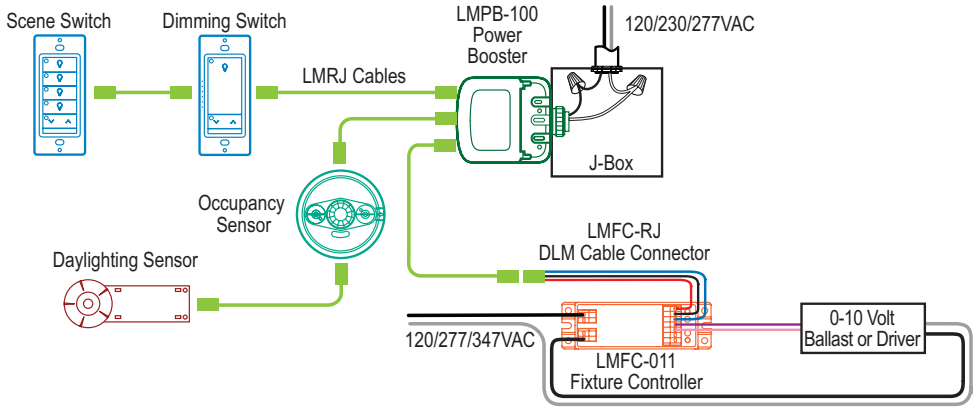
Mounting inside a j-box. Low voltage wiring is run to the LMPB-100 in conduit.



CONNECTING

Sample Connection Diagram for Fixture-Integrated Control

Plug DLM local network components together in any configuration using Cat 5e cables with RJ45 connectors.



ORDERING INFORMATION

Catalog #		Description
☐	LMPB-100	Digital Power Booster

28166r3 Rev 06/25