WIRED NETWORK BRIDGE

LMBC-300

NOTE: A new wireless version of the DLM network bridge is now available (model LMBC-600). Make your next installation faster, easier, and more flexible with DLM wireless networking!

Provides connectivity between a DLM local network and a BACnet-compatible DLM segment network

Supports third party integration with BAS through BACnet MS/TP

Optional wiring harness for fast installation of multiple devices in close proximity



BACnet
Registered trademark of ASHRAE

MS/TP BACnet automatic configuration for DLM segment network eliminates the need for DIP switches

Class 2 device powered from DLM local network

Plug n' Go™ automatically connects module with all devices on DLM local network

Description

The LMBC-300 Digital Network Bridge provides a segment network connection for a group of Digital Lighting Management (DLM) local network devices. This enables individual DLM local networks to be aggregated into a larger system, which, in turn, can be remotely managed from a DLM Segment Manager or a building automation system (BAS).

Operation

An LMBC-300 operates on Class 2 power supplied to a DLM local network by one or more DLM room controllers. It is connected to the free-topology local network at any convenient location using a standard LMRJ cable, and has terminals for connection to the segment network using LM-MSTP wire. The LMBC-300 monitors the DLM local network and automatically exposes all room devices, settings and calibrations through the segment network. Incorporating a Network Bridge in each DLM local network also allows the individual local networks to respond in concert to schedules created and broadcast from a DLM Segment Manager.

Local Network to Segment Network Link

The LMBC-300 Network Bridge provides a two-way communication link between local network devices and a DLM Segment Manager or third party building automation system. The LMBC-300 makes all local device settings visible and adjustable through the LMCS-100 DLM software. This includes settings previously made locally either by Plug n' Go, Push n' Learn, an LMCT-100 configuration tool or the LMCS-100 DLM software. Additionally, many DLM device settings are made available to any BAS system that uses the BACnet protocol.

Applications

The LMBC-300 is ideal for projects that require centralized monitoring, control or configuration. It enables communication between DLM devices on the local network and front end hardware. This facilitates advanced sequences of operation including load shedding, communication with other BACnet based systesm, and the ability to update firmware in any DLM device via the LMCS for a single location. An LMBC-300 is required for each local network in order to connect to an LMSM Segment Manager.

Features

- Component of Digital Lighting Management integrated control systems
- Adds segment network functionality a to DLM local network
- Communicates all DLM local network data and device settings to a Segment Manager and/or LMCS software
- Easy integration with BAS through use of standard BACnet objects to represent DLM local network device settings and states
- Class 2 operation and plenum rated housing facilitate simple installation
- DIN rail mounting clamp provided with the unit to facilitate box or panel mounting
- UL 2043 plenum rated
- This product meets the materials restrictions of RoHS
- BAA/TAA-compliant models available

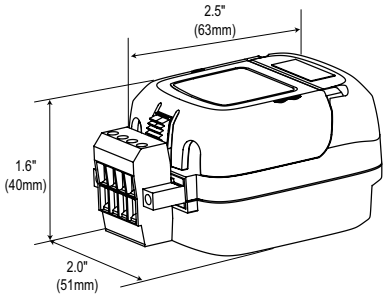
PROJECT		LOCATION/ TYPE	

Specifications

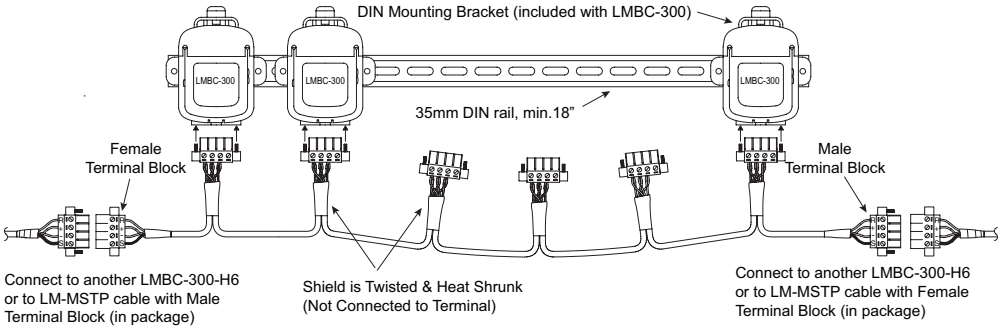
- Operating voltage: 24VDC from DLM local network
- Current consumption: 30mA
- DLM local network connection: 2 RJ45 ports
- Removable terminal block for twisted pair DLM segment network connection
- Segment network parameters:
  - Wattstopper LM-MSTP wire rated for BACnet MS/TP (RS485)
  - Linear topology; 4000' maximum per segment
  - Up to 40 local networks, or up to 300 DLM devices
- DIN rail mounting plate provided with the unit for cabinet or panel mounting
- Status LEDs indicate normal operation
- Operating conditions: for indoor use only; 32-158°F (0-70°C); 0-95% RH, non-condensing
- UL and cUL listed (E101196)
- FCC part 15 compliant
- Five year warranty

Dimensions, Mounting & Optional Wiring Harness

Product Dimensions



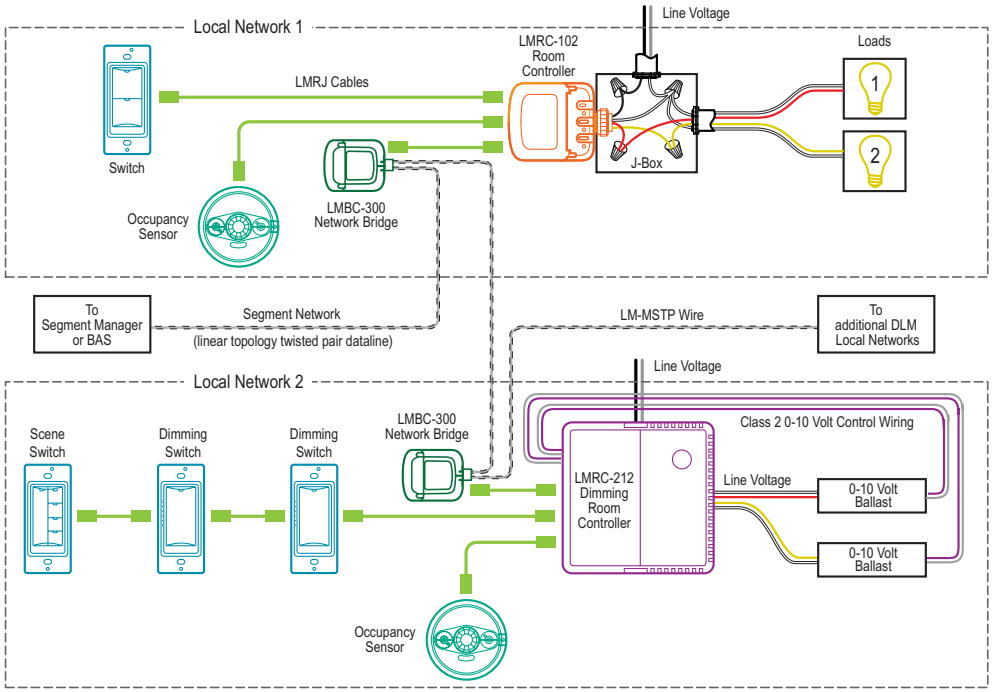
DIN Rail Mounting and Wiring using LMBC-300-H6 Wiring Harness



Typical Connections to DLM Local Networks and Segment Network Dataline

Wattstopper LM-MSTP wire must be used for the Segment Network. LMBC-300 wiring terminations should be made using ferrules sized for 20 AWG conductors.

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



Ordering Information

Catalog #		Description
☐	LMBC-300	Wired Network Bridge
☐	LMBC-300-U	Wired Network Bridge, BAA/TAA compliant*
☐	LMBC-300-H6	Wiring harness with connectors for 6 Wired Network Bridges (ordered separately)
☐	LMBC-600	Wireless Network Bridge
☐	LMBC-600-U	Wireless Network Bridge, BAA/TAA compliant*

*Product is compliant with Buy American Act and Trade Agreements Act

Pub. No. 27126r1 Rev. 11/2017