LEVITON®

Sector Bus Controller
Includes the brain and power supply for Leviton's Sector Intelligent Lighting Control System in one component

- •SectorNET Communication
  - • 4800 Baud Rate
  - • Error Detection with CRC
  - • Polarity-free
- • Compatible with Class 1 and Class 2 Wiring
- • Controls 64 devices, 8 areas and 31 groups (double DALI)
- • Power Supply and Bus in One Box
- • Remote Configuration
- • Topology-free - the Bus Controller connects through daisy-chain network wiring techniques
- • Controls the Sector Network
- • Controls Daylight Harvesting
- • Built-In Push Button CAN Terminator
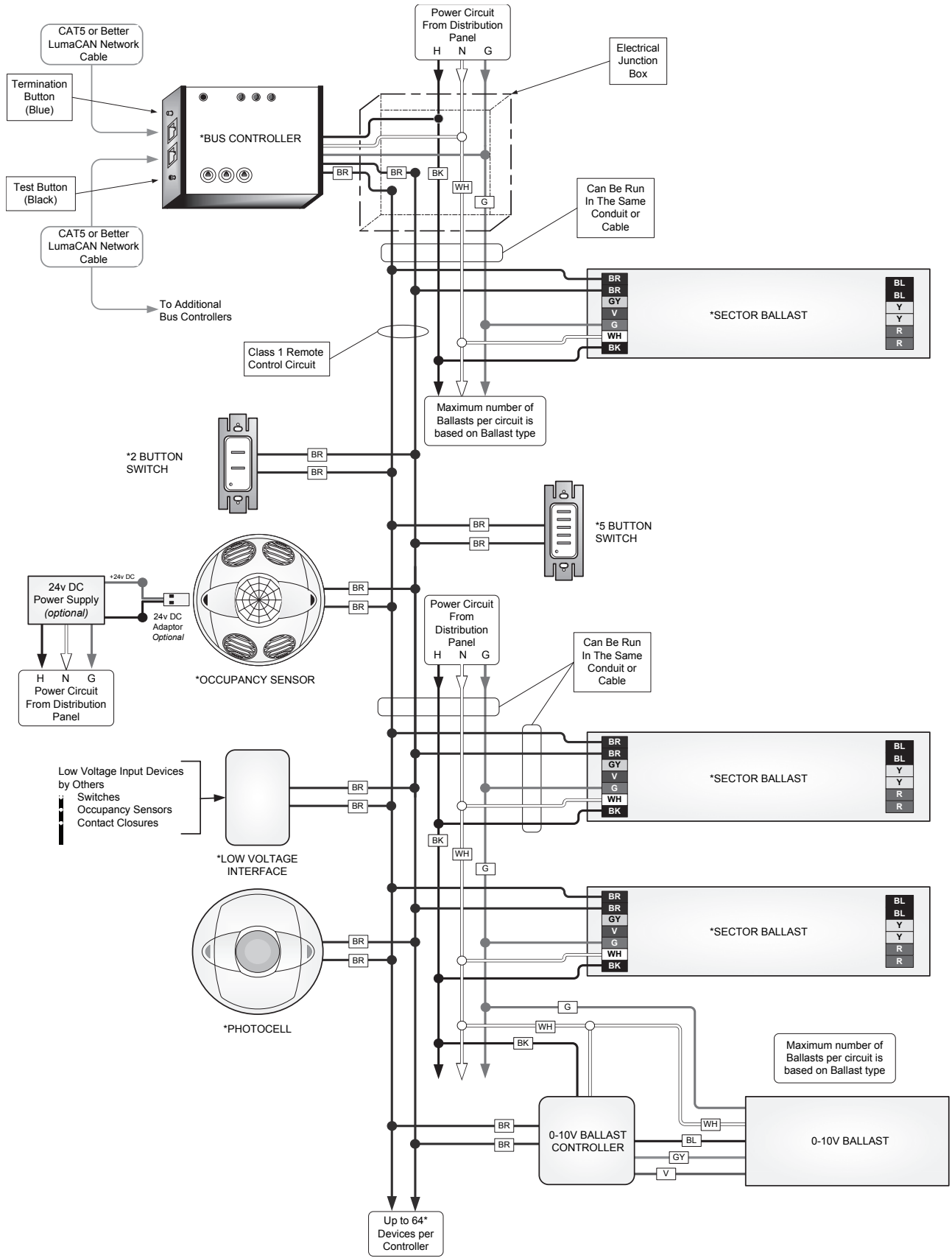
DESCRIPTION

Leviton's Sector Bus Controller (SBP00-00M) is the brain and power supply for the Sector Intelligent Lighting Control System and acts as the primary controller for the ballasts and ballast controller devices. A Sector lighting system can support a maximum of 253 bus controllers, with each Bus Controller controlling a maximum of 64 devices. The Bus Controller polls the Sector devices for status on a regular basis, and processes any requests (i.e. dimming).

APPLICATIONS

The Sector Bus Controller is just one component of the Sector Intelligent Lighting Control system that can be used to provide consistent lighting and reduce energy costs in office buildings, medical offices, schools, labs, restaurants, government facilities and any other location that could benefit from the cost savings and energy efficiency of a controlled lighting environment. The Bus Controller works in conjunction with Leviton's Sector line of Ballasts, Occupancy Sensors, Photocells, and various Switches to create a low-maintenance, highly functional lighting system while reducing carbon footprints.

Sector Bus Controller

PRODUCT DATA

Sector Bus Controller

CAT5 or Better LumaCAN Network Cable

Termination Button (Blue)

Test Button (Black)

CAT5 or Better LumaCAN Network Cable

To Additional Bus Controllers

*BUS CONTROLLER

Power Circuit From Distribution Panel
H N G

Electrical Junction Box

BR   BR   BK   WH   G

Can Be Run In The Same Conduit or Cable

Class 1 Remote Control Circuit

Maximum number of Ballasts per circuit is based on Ballast type

BR BR GY V G WH BK

*SECTOR BALLAST

BL BL Y Y R R

*2 BUTTON SWITCH

BR BR

BR BR   *5 BUTTON SWITCH

24v DC Power Supply (optional)

+24v DC

24v DC Adaptor Optional

BR BR

*OCCUPANCY SENSOR

H N G
Power Circuit From Distribution Panel

Power Circuit From Distribution Panel
H N G

Can Be Run In The Same Conduit or Cable

Low Voltage Input Devices by Others
Switches
Occupancy Sensors
Contact Closures

BR BR

*LOW VOLTAGE INTERFACE

BK WH G

BR BR GY V G WH BK

*SECTOR BALLAST

BL BL Y Y R R

BR BR

*PHOTOCELL

BR BR GY V G WH BK

*SECTOR BALLAST

BL BL Y Y R R

G

WH

BK

Maximum number of Ballasts per circuit is based on Ballast type

BR BR

0-10V BALLAST CONTROLLER

WH
BL
GY
V

0-10V BALLAST

Up to 64* Devices per Controller

* 9 Sector Devices are shown in this diagram

FEATURES

- **4800 Baud Rate:** a baud rate that is twice as fast as what most competitors provide ensures a highly responsive lighting system; four times faster than DALI

- **Bus and Power Supply in One:** contains the power supply and controller in one box, eliminating the need to have a separate power supply

- **A Truly Scalable Solution:** a single Sector network can support 253 Bus Controllers, controlling 64 devices each for maximum coverage in larger facilities

- **Topology-free:**
  - **LumaCAN** - connected to each other in a daisy-chain
  - **SectorNET** - topology-free

- **Non-Volatile Memory:** learned and adjusted settings saved in protected memory are not lost during power outages

- **Error Detection:** CRC error checking validates data being transmitted across the Sector network, ensuring accurate instructions to the Bus Controller

- **Remote Configuration:** can be conveniently configured remotely using the SectorNET software

- **Power Loss Protection:**
  - **Bus Controller Power Loss:** If a power outage (or electrical blackout) occurs and the Bus Controller loses power, the ballasts will go to full (maximum illumination)

  - **Ballast Power Loss:** If the ballast experiences power loss, the ballast(s) will respond to their preset level or action on power restoration (i.e., upon a generator start). This can be programmed to the user's individual requirements.

SPECIFICATIONS

Electrical
- Input Supply Voltage: 120-277VAC +-10% 50/60Hz
- Power Wiring: Hot, Neutral, Ground
- Sector Wires: Two low-voltage polarity-free brown wires
- Sector Net Power Supply: 500mA

Environmental
- Ambient temperature range: 10°C - 50°C (50°F - 122°F)
- Relative humidity: < 90% non-condensing

Physical
- LED: Red-power status; Yellow-SectorNET Bus Status, Green-CAN bus status
- 2 RJ45 connectors for connection to CAN (Controller Area Network) and computer network

Listings
- UL 916, CSA C22.2 #20; ANSI C62.41 Category A (transient voltage line protection); CEE certified

Warranty
- Limited 5-year warranty

ORDERING INFORMATION

CAT. NO.	DESCRIPTION
SBP00-00M	Sector Bus Controller/Power Supply, 120-277V, 50/60Hz
SEN04-000	Sector 4-Module Enclosure (to hold a maximum of 4 Bus Controllers)

The following components are also part of the Leviton Sector Intelligent Lighting Control System:

- Sector Ballasts (T8, 17W/25W/32W): SD1F8-17M, SD1F8-25M, SD1F8-32M, SD1J8-17M, SD1J8-25M, SD1J8-32M, SD2F8-17M, SD2F8-25M, SD2F8-32M, SD2J8-17M, SD2J8-25M, SD2J8-32M
- Sector Occupancy Sensors: OSC04-ISW, OSC20-MSW
- Sector Photocell: ODC0P-0SW
- Sector 5-Button Digital Switch: SDS00-15W
- Sector Handheld Remote: SHH00-000
- SectorNET Software and USB-to-LumaCan Adapter: SLM00-000, SIF00-000, SIFPD-000
- Sector Ballast Controller: SBCS0-000, SBCS0-001

Sector Bus Controller