SECTOR RELAY
Cat. No. SBCS0

SECTOR™

LEVITON®

DI-000-SBCS0-00A

INSTALLATION **ENGLISH**

WARNING AND CAUTIONS:

- To be installed and/or used in accordance with electrical codes and regulations.
- Installation and replacement should only be performed by an electrician.
- Never work on a live circuit. Disconnect power to all related electrical circuits prior to performing work on them.

Specifications

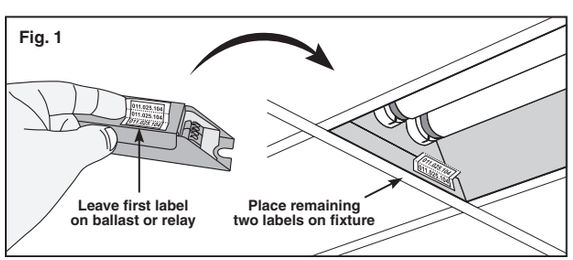
Input Power: 120-277VAC, 50/60Hz, 2 Watts
Support Loads: Ballast – 20A, 120-230-277-347V
Incandescent/Tungsten – 20A, 120V
Motor/Fan – 1/2HP @ 120V, 2HP @ 277V
Control Output: 0-10VDC Sinking, 50mA
(power supplied by Ballast)
0-10VDC Sourcing, 10mA
(power supplied by Relay)

SectorNet Device Addresses

Part of the commissioning process for SectorNet systems requires the knowledge of the ballast/relay 'hard' address. The hard address of each relay is provided on a 3-part label affixed to the ballast housing. These labels have a particular purpose and intended process for usage. One of the label parts is to remain on the ballast/relay. The second label part is to remain on the fixture either on the wiring compartment or externally visible. The third part of the label is to be affixed to the lighting/electrical plans for use by Leviton Field Service Personnel during the commission phase, then, turned over to the owner as part of the as-built document package. The process for label usage is as follows:

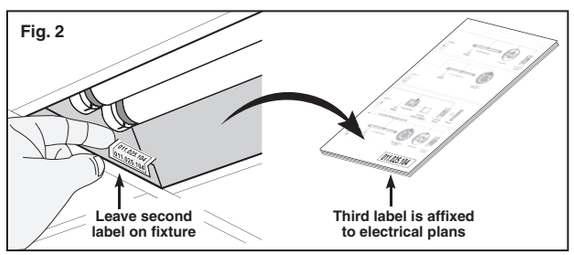
1. When the ballast is installed in the fixture, or, the relay is affixed to the fixture, (2) of the labels should be removed from the relay at the perforation line, then, the label backing removed from only (1) of the labels, and the label affixed to the fixture in a conspicuous location. Commonly, labels are affixed to wiring compartment or visible edge of fixture in the room.

Fig. 1



2. When the fixture is installed at the location, the last label should be torn off at the perforation line, the label backing removed, and the label affixed to the lighting/electrical plans for use by Leviton Field Service Personnel during the commission phase, then, turned over to the owner as part of the as-built document package. In the event that building plans are not available, document address in the charts provided on Leviton drawings or make your own. It is critical to know the address of each ballast in every room.

Fig. 2



System Testing

SYSTEM TEST MODE:

SectorNet System Test Mode will help ring out any wiring problems. Test mode should be fully exercised with all devices responding as appropriate prior to the start of system commissioning.

System Test Mode can be entered by pressing-and-holding the Test Button on the SectorNet Power Supply/Bus Controller for approximately 5 seconds.

When the system enters test mode, the SectorNet Power LED on the Power Supply will start blinking. During test mode, the following occurs:

- Power LED on the Power Supply/Bus Controller is blinking.
- Test button on the Bus Controller can be briefly pressed to toggle ballast light levels between 10% and 100%.
- Yellow LED is blinking on all switches, occupancy sensors, photocell.

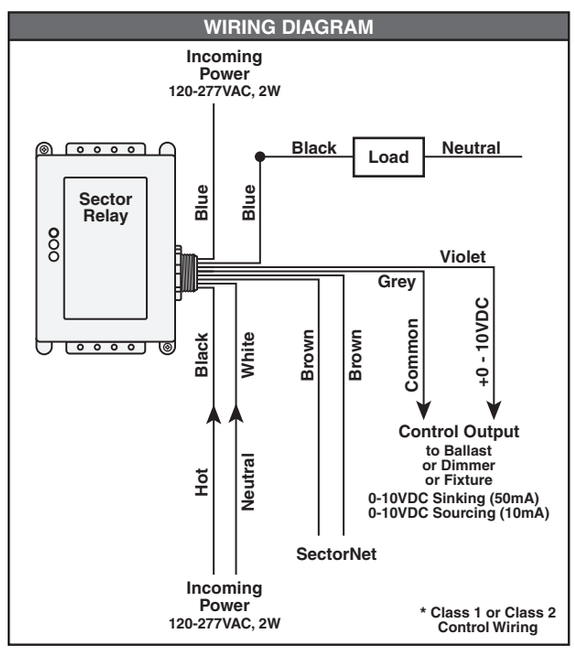
WARNING AND CAUTIONS:

- Failure to install in conformance with the National Electric Code, applicable State or Municipal codes, and specific UL Safety standards for the intended working environment may cause serious personal injury, death, and/or property damage.

RELAY TEST:

The test button on the Sector Relay when pressed the first time, will turn lights on to full. The second press, will set them at 10%, the third press will turn them off. If you are not using the 0-10V control output, the second press will have no effect. This is useful to test the circuit between the Sector Relay and your load. Any SectorNet command will cause the relay to exit test mode and execute the issued command.

Device Wiring

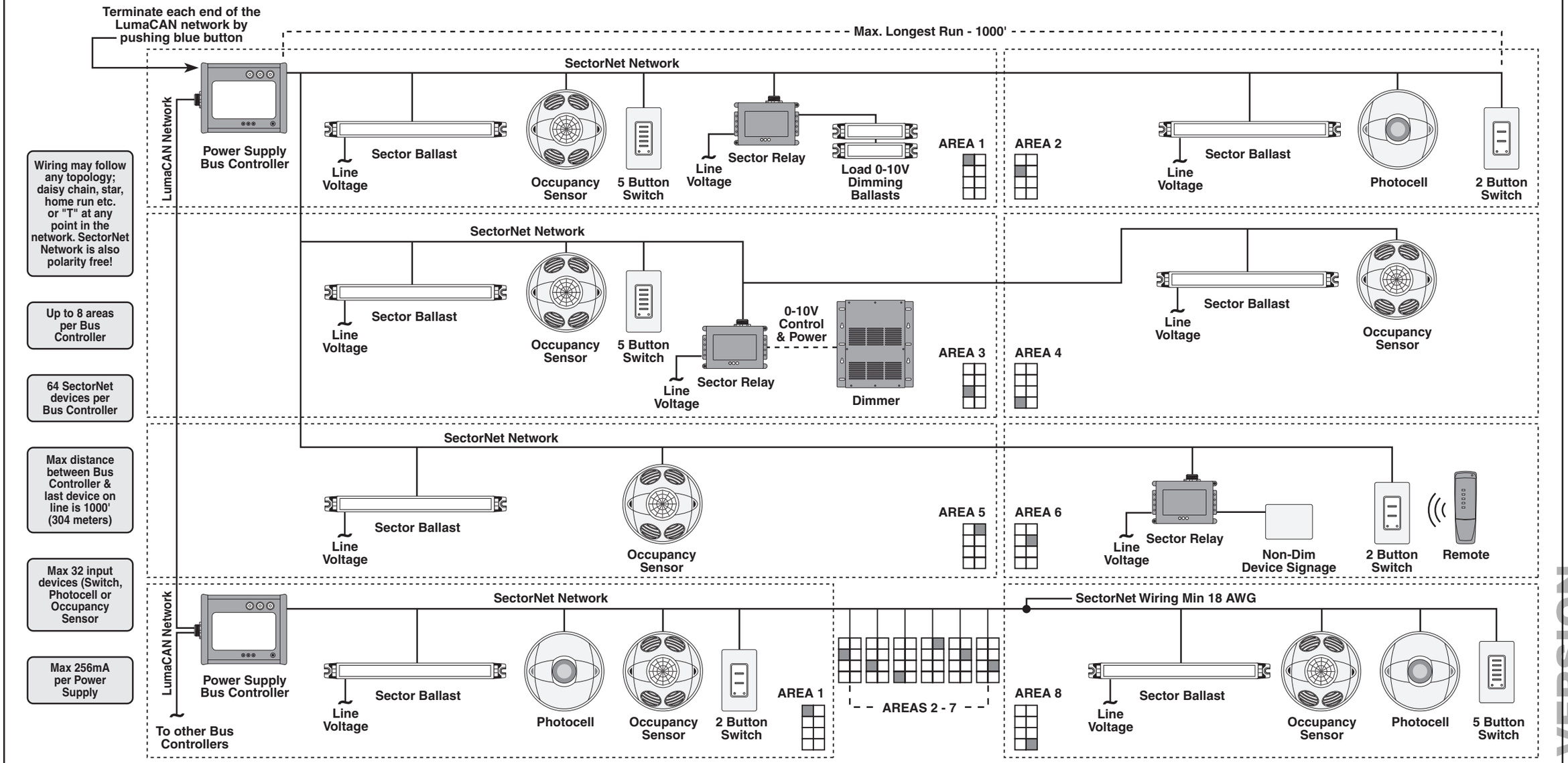


Installation Steps

1. Ensure **power is OFF** on all circuits you will be working with.
2. Attach Sector Relay to junction box or fixture.
3. Make all Terminations.
   a. Incoming Power.
   b. **SectorNet Network:** Min 18AWG wire, Polarity Independent and Topology Free **(reference Figure 1)**.
   c. **Relay:** Observe specifications above. (2) Blue wires are provided connected to either side of the relay. Either one may be connected to Load and/or Line power.
   d. **Control:** 0-10Vdc. These connections are optional and used only when needed to control a device accepting a 0-10Vdc control input. If you only need a relay for on/off control, then these wires are not used and should be capped and taped. Two control strategies are available, sinking and sourcing:
      i. Sinking is the most common method of control and is required when the ballast is providing control power to the circuit.
      ii. Sourcing is not as common in the ballast market as Sinking control but is used by some LED drivers and dimmers accepting analog control inputs. In a sourcing environment, the Sector Relay provide power to the 0-10V control. A Sector Relay is limited in supply current to 10mA. This is plenty to run a single device or in some cases two. However if you intend to run multiple device verify actual current draw with the manufacturer prior to use.
4. Document Sector Relay hard address on building plans
5. Inspect all terminations
6. Apply power to circuit
7. Test Sector Relay Load using the test button on the Sector Relay
8. Test SectorNet communication (see SectorNet System test above)
9. Proceed to SectorNet system commissioning.

WEB VERSION

Figure 1 - Typical Sector System Diagram



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WEB VERSION

LIMITED 5 YEAR WARRANTY AND EXCLUSIONS

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for five years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option, if within such five year period the product is returned prepaid, with proof of purchase date, and a description of the problem to **Leviton Mfg. Co., Inc. 201 North Service Road, Melville, N.Y. 11747**. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. **There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose**, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to five years. **Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation**. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.