Product Specifications

CN100

Features and Benefits

- Works with low-voltage non-dimmable and dimmable electronic ballasts, such as Advance Mark VII 0-10V, OSRAM Sylvania Quicktronic Helios, and ESI.
- Networkable with LCnet-compatible wall switches and dimmers, remote controls, photocells, occupancy sensors, and Leviton Personal Dimmer software for optional computer control over lighting, as well as multiple CN100's.
- Retains all LCnet system settings such as addresses, light (including preset) levels, time clock settings, loadshed and emergency status, unoccupied state, and 30-minute timeout state.
- Reduces electric usage by adjusting load output to the lowest light level called for by an active input (Least Light Law).
- Powers Leviton ODC-Series Ceiling-Mount and ODW-Series Wall-Mount Occupancy Sensors, ODC0P Photocell, LCnet wall controllers, and Leviton SmartJack.
- When ambient light levels fluctuate rapidly, the CN100 can average changes to keep lights from dimming and brightening (or turning on and off) too frequently.
- Adheres to environmental regulations (including California's Title 24) by defaulting to a 30-minute override of manually brightened settings. This override may be deactivated.
- Programmable time clock function shuts all LCnet lights off in an end-of-day sequence, ensuring that lights are not inadvertently left on. Twenty-five minutes after time clock is activated, the lights will flash a warning sequence: lights brighten to maximum, dim to minimum, then return to the previous brightness level within 5 seconds. After another 5 minutes the lights will dim by 30% and slowly fade to off.
- Accommodates loadshed policies by enabling electric consumption to be reduced during peak usage periods when programmed accordingly.
- Features a built-in, low-voltage HVAC relay that automatically turns off based on room occupancy, with occupancy sensor installed.

Specifications

Electrical

Input Voltage: 120 to 277VAC ± 10%
Input Current: 500mA
Isolated Output: 24VDC @ 500mA
Primary Relay Rating: 2400VA @ 120VAC and 5500VA @ 277VAC fluorescent
Testing/Code Compliance: UL Listed, CSA Certified, FCC Part 15, and California Title 24

Physical

Size: 4.3 x 4.0 x 3.6in. (10.92 x 10.16 x 9.14cm)
Color: metallic silver

Environmental

Operating Temperature Range: 0ºC to +55ºC
Storage Temperature Range: -10ºC to +85ºC
Relative Humidity: 20% to 90% non-condensing

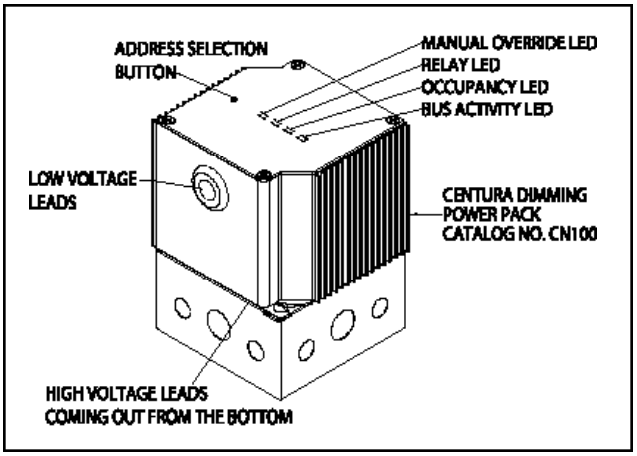
Warranty: Limited 2-Year Warranty

Termination

Power packs chosen as the first and last nodes on an LCnet bus must be terminated. The termination switch is behind the pack's faceplate. No termination is necessary if wire lengths between LCnet components are less than 10 feet.

Addressing

Addresses must be assigned when using multiple power packs via controller or software.



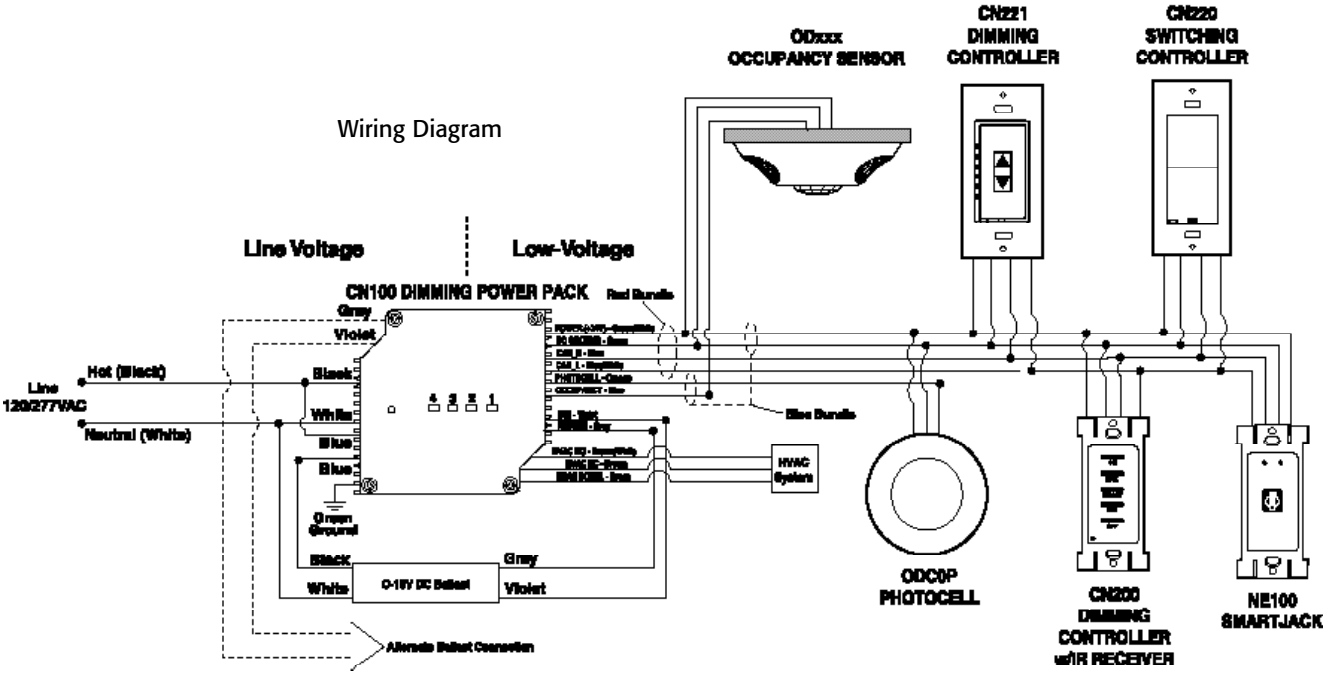
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JOB NAME:	CATALOG NUMBERS:	
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Wiring Diagram



Programmable Power Pack Settings

1. Maximum Light Level
   The maximum Power Pack output, which can be set lower than the maximum ballast output, is adjustable between 60% and 100%.
2. Minimum Light Level
   The minimum Power Pack output, which can be set greater than the minimum ballast output, is adjustable between 0% and 40%.
3. Light Maintain Level
   The level of light that the photocell measures and that the Centura System will try to constantly maintain when using the daylight-harvesting feature.
4. Unoccupied State
   Any time the occupancy sensor detects an absence of motion, it can be set to either turn the lights off or dim them to the Minimum Light Level.
5. Time Clock
   End of day sequence of light settings.
6. Dim/Bright
   The speed at which the lights are brightened or dimmed to a new, selected light level.
7. ON Fade Rate
   The speed at which the lights brighten to the Light Maintain Level.
8. OFF Fade Rate
   The speed at which the lights dim to off.
9. Manual Timeout
   When this setting is active, manual adjustments to lighting will only remain active for 30 minutes, at which point they will revert to the Light Maintain Level if it is dimmer than the manually-adjusted level. This setting can be disabled.
10. Loadshed Level
    When this setting is actived, lights will be reduced either at the 25% default level or at the selected percentage.

Note: There is a limit to the number of peripheral devices that may be attached to a single Centura Dimming Power Pack of 500 mA

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How the CN100 behaves is a function of how it prioritizes the various inputs it may be receiving from peripheral devices at any, given time.

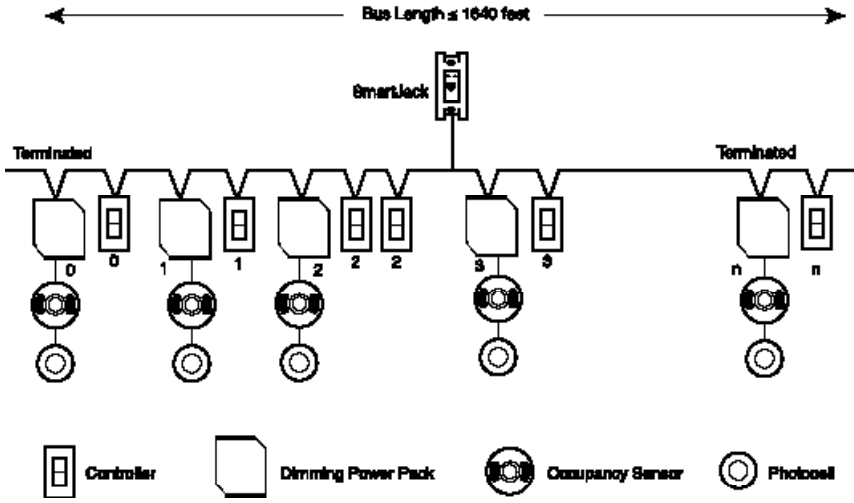
Power Pack Input Prioritization
The CN100 Dimming Power Pack may receive several inputs at any one time and it prioritizes these inputs in the following order.

1. Service (Air Gap) Switch: keeps lights off so service can be performed.
2. Emergency: lights turn to 100% brightness when system goes into emergency mode.
3. Program Mode: During reprogramming of default values and addresses, service switch and emergency mode settings will always take precedence.
4. Occupancy On/Off: turns lights on and keeps them on as long as occupancy is detected by sensor, and off when no motion is detected.
5. Manual Off: when a user turns lights off using a switch, remote control, or computer.
6. Time Clock: lights will adjust based on time clock settings.
6. Loadshed: decreases load output by a user-configurable percentage during loadshed periods.
7. Light Maintain Level: lighting adjusts its own output to maintain a user-set light level within a photocell's area of detection.
8. Manual On / Brighten / Dim: when a user adjusts lights using a switch, remote control, or computer.

Installation

Low Voltage Class 2 Wiring
- Daisy chain peripheral devices to CN100 bus.
- Make connections in junction box no longer than 29 ft drop.
- Run low voltage wires separately from line voltage.
- Use CAT5-type wiring.

High Voltage Class 1 Wiring
Connect wires in junction box using standard wiring practices.



LCnet Wiring Schematic

Leviton's Limited Two-Year Warranty
This warranty gives you specific rights,and you may also have other rights,which vary in different states and countries.Leviton warrants to the original consumer purchaser that this product is free of defects in materials and workmanship for 2 years from the purchase date.Leviton's only obligation is to correct such defects by repair or replacement, at its option,if within such 2 years the product is returned prepaid,with proof of purchase date,and a description of the problem to the Leviton Manufacturing Co.,Inc., ATTN:Quality Assurance Department,59-25 Little Neck Pkwy.,Little Neck,NY 11362-2591.This warranty does not cover labor for removal or reinstallation of the product and is void on any product installed improperly or in an improper environment,overloaded,misused,opened,abused,or altered in any manner. There are no implied warranties of any kind,but if implied warranties are required by the applicable jurisdiction,Leviton limits the duration of any implied warranty of fitness for use or merchantability to 2 years.Leviton is not liable for incidental or consequential damages,including without limitation,loss of equipment use and lost sales or profits for breach of any warranty on this product.Some jurisdictions may not allow exclusion of or limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages,so the above exclusions or limitations may not even apply to you.

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