

## Nova T☆ Controls

This series of classic thin-profile linear-slide dimmers and switches offers the following standard features:

- Square Law Dimming
- Voltage compensation (not applicable to NTCL-250)
- Power-failure memory
- Superior RFI suppression
- Captive linear slider
- Accessible air-gap switch
- Electrostatic discharge tested
- Precise color matching
- Heavy-duty components for surge protection and long product life
- 100% factory tested

### Product Family Features

- Available for 120–277 V~ line voltage switching (sink- only control) 0–10 V== LED drivers and ballasts (power pack not required for loads up to 8 A)
- Excellent for residential or commercial applications
- Intuitive operation; easy to use
- Slide-to-off and preset models available
- Enclosed heat sink for aesthetically pleasing appearance
- Multi-gang alignment for quick and easy installation
- Full family of products for most lighting sources, plus matching accessories and wallplates
- Rated at 120 V~ 60 Hz, unless noted otherwise
- Custom products (CPN) are available to meet specific customer needs. Please contact Lutron Customer Assistance at 1.844.LUTRON1 (588.7661) for availability.

### Regulatory Approvals

- UL® Listed
- CSA certified
- NOM

### Colors and Finishes

When ordering product for use with metal wallplates, the product and wallplate must be ordered separately. See the “Architectural Wallplates and Accessories” section of **Volume 1: Basic Devices and Single-Space Systems Catalog** (P/N 367-1746) for ordering procedure. See table to the right for complete list of metal finishes.

Custom color matching is available for all Nova T☆ products. A swatch or sample is all that is required. Call customer service to arrange for a color-matched control.



**Slide-to-Off Controls**

Select light level with slider; slide down to OFF



**Preset Controls**

Select light level with slider; press ON/OFF

Engraving is available for all Nova T☆ products. Engraving schedules are available at [www.lutron.com/engraving](http://www.lutron.com/engraving) or through Customer Assistance at 1.844.LUTRON1 (588.7661).

### Available Colors and Finishes

#### Matte Finishes

To order, add color/finish suffix code to model number. Example: NT-600-**WH**

| Code | Color  |
|------|--------|
| WH   | White  |
| TP   | Taupe  |
| AL   | Almond |
| BL   | Black  |

| Code | Color        |
|------|--------------|
| GR   | Gray         |
| IV   | Ivory        |
| LA   | Light Almond |

| Code | Color  |
|------|--------|
| BE   | Beige  |
| SI   | Sienna |
| BR   | Brown  |

#### Special Order

To order, add color/finish suffix code to model number. Example: NT-600-**BB**

#### Metal Finishes

| Code | Color         |
|------|---------------|
| SB   | Satin Brass   |
| BC   | Bright Chrome |

| Code | Color        |
|------|--------------|
| BB   | Bright Brass |

#### Special Metal Finishes

| Code | Color         |
|------|---------------|
| QB   | Antique Brass |
| SC   | Satin Chrome  |
| BN   | Bright Nickel |

| Code | Color          |
|------|----------------|
| QZ   | Antique Bronze |
| SN   | Satin Nickel   |

#### Anodized Aluminum Finishes

| Code | Color |
|------|-------|
| CLA  | Clear |

| Code | Color |
|------|-------|
| BLA  | Black |

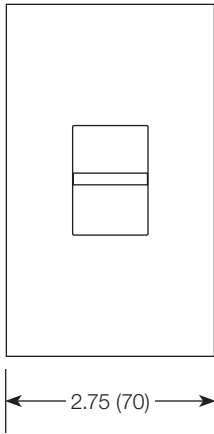
| Code | Color |
|------|-------|
| BRA  | Brass |

|                    |                       |
|--------------------|-----------------------|
| <b>Job Name:</b>   | <b>Model Numbers:</b> |
| <b>Job Number:</b> |                       |

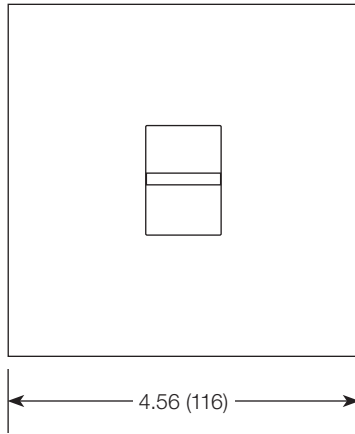
## Dimensions

Measurements shown as: in (mm)

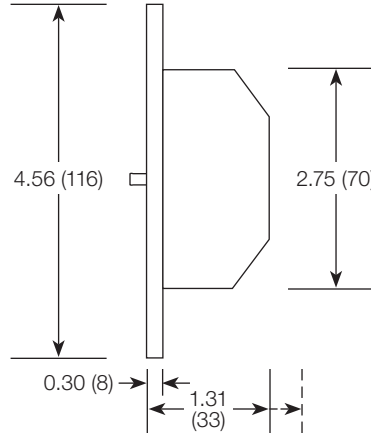
Small Control



Large Control

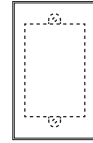


Profile

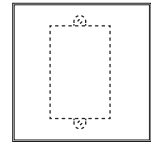


**Note:** Some models as deep as 1.9 (48)

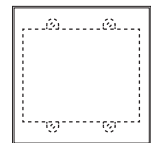
Back Views: NT- models



NT-600  
NT-1000



NT-1500



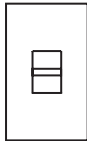
NT-2000

## Available Controls and Accessories (Summary)

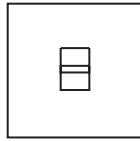
For specific uses, capacities, and model numbers, see the following pages.

### Controls

Slide-to-Off Dimmers

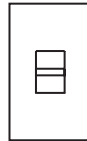


Small  
Control

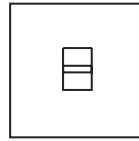


Large  
Control

Preset Dimmers



Small  
Control



Large  
Control

Linear-Slide Switches

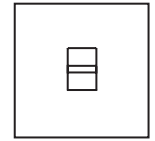


Small  
Control

Slide-to-Off Fan-Speed Controls



Small  
Control



Large  
Control

Job Name:

Model Numbers:

Job Number:

## Control Specifications

| Incandescent Dimmers: Slide-to-Off                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |                                                              |                                                             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------|-------------------------------------------------------------|--------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Small Control | Description                                                  | Maximum Capacity                                            | Model Number |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               | Single-pole 120 V~ 60 Hz                                     | 600 W                                                       | NT-600-XX    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               | Single-pole 120 V~ 60 Hz                                     | 1000 W                                                      | NT-1000-XX   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Large Control | Single-pole 120 V~ 60 Hz                                     | 1500 W                                                      | NT-1500-XX   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               | Single-pole 120 V~ 60 Hz                                     | 1950 W                                                      | NT-2000-XX   |
| <ul style="list-style-type: none"><li>• The NT-2000-XX does not have removable side sections; it can be ganged but must be kept intact.</li><li>• The NT-2000-XX requires a 2-gang wallbox.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |               |                                                              |                                                             |              |
| Incandescent Dimmers: Preset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                              |                                                             |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Small Control | Description                                                  | Maximum Capacity                                            | Model Number |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               | Single-pole/3-way/4-way 120 V~ 60 Hz                         | 600 W                                                       | NT-603P-XX   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               | Single-pole/3-way/4-way 120 V~ 60 Hz                         | 1000 W                                                      | NT-1003P-XX  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Large Control | Single-pole/3-way/4-way 120 V~ 60 Hz                         | 1500 W                                                      | NT-1503P-XX  |
| <ul style="list-style-type: none"><li>• For 3-way or 4-way switching, use NT-3PS-XX (3-way), NT-4PS-XX (4-way), or other mechanical switches.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                                                              |                                                             |              |
| C•L Dimmers: Slide-to-Off                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                                                              |                                                             |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Small Control | Description                                                  | Maximum Capacity                                            | Model Number |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               | Dimmable LED/CFL<br>Single-pole 120 V~ 60 Hz                 | 250 W                                                       | NTCL-250-XX  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               | Incandescent/Halogen<br>Single-pole 120 V~ 60 Hz             | 1000 W                                                      |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               | Hi-lume 1% 2-Wire LTE LED driver<br>Single-pole 120 V~ 60 Hz | 400 W (maximum of 10 drivers)                               |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               | Mixed bulb type<br>Single-pole 120 V~ 60 Hz                  | See Derating: Maximum Capacities in Multigang Installations |              |
| <b>Application requirements:</b> <ul style="list-style-type: none"><li>• When dimming LEDs or CFLs, <b>only</b> bulbs marked or rated as <b>dimmable</b> and on the recommended list may be used.</li><li>• For a complete list of recommended <b>dimmable</b> LEDs and CFLs please visit <a href="http://www.lutron.com/dimcflled">www.lutron.com/dimcflled</a>. For questions call 1.844.LUTRON1.</li><li>• Some dimmable LEDs and CFLs require a minimum number of bulbs for proper operation. For details and the bulb list, visit <a href="http://www.lutron.com/dimcflled">www.lutron.com/dimcflled</a></li><li>• For LED product selection tool, visit <a href="http://www.lutron.com/ledtool">www.lutron.com/ledtool</a></li></ul> <b>Features:</b> <ul style="list-style-type: none"><li>• Low-end adjustment to accommodate a wide range of bulbs.</li><li>• HEDT Technology: Advanced Lutron dimming circuitry designed for compatibility with most high efficacy light bulbs.</li><li>• NEMA SSL-7A Type 2 compliant.</li></ul> |               |                                                              |                                                             |              |
| Electronic Low-Voltage (ELV) Dimmers: Slide-to-Off                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |                                                              |                                                             |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Small Control | Description                                                  | Maximum Capacity                                            | Model Number |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               | Single-pole 120 V~ 60 Hz                                     | 300 W                                                       | NTELV-300-XX |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               | Single-pole 120 V~ 60 Hz                                     | 600 W                                                       | NTELV-600-XX |
| <ul style="list-style-type: none"><li>• Maximum capacity is permitted lamp wattage.</li><li>• Requires neutral wire connection.</li><li>• For larger capacity ELV loads (up to 1000 W), use Nova T★ fluorescent dimmers (NTF-10-XX or NTF-103P-XX) with a PHPM-WBX interface.</li><li>• Minimum Load: 5 W Incandescent/Halogen or 1 ELV transformer. ELV transformer must be loaded per manufacturer's recommendations.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |                                                              |                                                             |              |

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|                    |                       |
|--------------------|-----------------------|
| <b>Job Name:</b>   | <b>Model Numbers:</b> |
| <b>Job Number:</b> |                       |

## Control Specifications (continued)

|  <b>Magnetic Low-Voltage (MLV) Dimmers: Slide-to-Off</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |                         |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------|---------------------|
|  <b>Small Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <i>Description</i>                   | <i>Maximum Capacity</i> | <i>Model Number</i> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Single-pole 120 V~ 60 Hz             | 600 VA / 450 W          | NTLV-600-XX         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Single-pole 277 V~ 60 Hz             | 600 VA / 450 W          | NTLV-600-277-XX     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Single-pole 120 V~ 60 Hz             | 1000 VA / 800 W         | NTLV-1000-XX        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Single-pole 277 V~ 60 Hz             | 1000 VA / 800 W         | NTLV-1000-277-XX    |
|  <b>Large Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Single-pole 120 V~ 60 Hz             | 1500 VA / 1200 W        | NTLV-1500-XX        |
| <ul style="list-style-type: none"> <li>Maximum capacity is permitted lamp wattage.</li> <li>277 V~ models require neutral wire connection.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                         |                     |
|  <b>Magnetic Low-Voltage (MLV) Dimmers: Preset</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |                         |                     |
|  <b>Small Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <i>Description</i>                   | <i>Maximum Capacity</i> | <i>Model Number</i> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Single-pole/3-way/4-way 120 V~ 60 Hz | 600 VA / 450 W          | NTLV-603P-XX        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Single-pole/3-way/4-way 120 V~ 60 Hz | 1000 VA / 800 W         | NTLV-1003P-XX       |
|  <b>Large Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Single-pole/3-way/4-way 120 V~ 60 Hz | 1500 VA / 1200 W        | NTLV-1503P-XX       |
| <ul style="list-style-type: none"> <li>For 3-way or 4-way switching, use NT-3PS-XX (3-way), NT-4PS-XX (4-way), or other mechanical switches.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      |                         |                     |
|  <b>Fluorescent Dimmers for Lutron 3-wire fluorescent ballasts or LED drivers: Slide-to-Off</b>                                                                                                                                                                                                                                                                                                                                                                                             |                                      |                         |                     |
|  <b>Small Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <i>Description</i>                   | <i>Maximum Capacity</i> | <i>Model Number</i> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Single-pole 120 V~ 60 Hz             | 16 A                    | NTF-10-XX           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Single-pole 277 V~ 60 Hz             | 8 A                     | NTF-10-277-XX       |
| <ul style="list-style-type: none"> <li>Use with Lutron 3-wire fluorescent ballasts or LED drivers only.</li> <li>For LED loads, please see the "Report Cards" at <a href="http://www.lutron.com/ledtool">www.lutron.com/ledtool</a> for proper loading of the dimmer.</li> <li>No derating required.</li> <li>To determine the number of ballasts that can be controlled by Nova T☆ fluorescent dimmer, divide the control capacity by the ballast current.</li> </ul>                                                                                                       |                                      |                         |                     |
|  <b>Fluorescent Dimmers for Lutron 3-wire fluorescent ballasts or LED Drivers: Preset</b>                                                                                                                                                                                                                                                                                                                                                                                                 |                                      |                         |                     |
|  <b>Small Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <i>Description</i>                   | <i>Maximum Capacity</i> | <i>Model Number</i> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Single-pole/3-way 120 V~ 60 Hz       | 8 A                     | NTF-103P-XX         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Single-pole/3-way 277 V~ 60 Hz       | 6 A                     | NTF-103P-277-XX     |
| <ul style="list-style-type: none"> <li>Use with Lutron 3-wire fluorescent ballasts or LED drivers only.</li> <li>For LED loads, please see the "Report Cards" at <a href="http://www.lutron.com/ledtool">www.lutron.com/ledtool</a> for proper loading of the dimmer.</li> <li>For 3-way or 4-way switching, use NT-3PS-XX (3-way), NT-4PS-XX (4-way), or other mechanical switches. No derating required.</li> <li>To determine the number of ballasts that can be controlled by Nova T☆ fluorescent dimmer, divide the control capacity by the ballast current.</li> </ul> |                                      |                         |                     |

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|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## Control Specifications (continued)

Reverse-Phase Electronic Low-Voltage (ELV) Dimmer: Slide-to-Off

Small Control

Description

Dimmable LED / CFL;  
Single-pole 120 V~ 60 Hz

Maximum Capacity

250 W

Model Number

NTRP-250-XX

Description

Incandescent / Halogen  
Single-pole 120 V~ 60 Hz

Maximum Capacity

600 W

Description

ELV with Halogen  
Single-pole 120 V~ 60 Hz

Maximum Capacity

600 W

For the best performance, use a bulb that is on the [Lutron LED Report Card Tool](#) at [www.lutron.com/ledtool](#) For questions call 1.877.DIM.LED8.

When dimming LEDs or CFLs, only bulbs marked or rated as DIMMABLE WITH REVERSE-PHASE OR UNIVERSAL DIMMERS may be used.

For recommended ELV transformers and compatible MR16 LED bulbs, please see Lutron Application Note #559 at [www.lutron.com/TechnicalDocumentLibrary/048559.pdf](#). Always follow the transformer and bulb manufacturer instructions for allowable loading.

Not compatible with magentic low-voltage (MLV) transformers or magnetic LED transformers/ drivers

Dimmer is not compatible with bulbs rated only for forward-phase type dimmers.

Minimum Load: 1 compatible CFL / LED bulb or 5 W Incandescent / Halogen or 1 ELV transformer. ELV transformer must be loaded per the manufacturer's recommendation.

0–10 V≡ Dimmers for Electronic Ballasts or LED Drivers: Slide-to-Off

Small Control

Description

Single-pole 0–10 V≡ 120–277 V~

Maximum Capacity\*

Load

0–10 V≡ Sink

Model Number

NTSTV-DV-XX

Load

8 A

0–10 V≡ Sink

30 mA

Power pack not required for loads up to 8 A. May use Lutron power pack (model PP-DV or PP347H; see Lutron P/N 369544) for higher load current applications or for Class 2 installations.

Works with all ballasts and drivers that provide a current source compliant to IEC 60629 Annex E.2, and whose inrush current does not exceed NEMA410 standards for electronic ballast/driver loads of 8 A steady-state current. Refer to LED driver and ballast manufacturer's specification for 0–10 V≡ sink currents.

Control has a high and low end trim to adjust the 0–10 V≡ output for optimal dimming performance.

\* Limited by whichever rating is achieved first.

Fluorescent Dimmers for Tu-Wire Electronic Ballasts: Slide-to-Off

Small Control

Description

Single-pole 120 V~ 60 Hz

Maximum Capacity

5 A

Model Number

NTFTU-5A-XX

Description

Single-pole 277 V~ 60 Hz

Maximum Capacity

5 A

Model Number

NTFTU-5A-277-XX

Use with Lutron Tu-Wire line voltage control electronic dimming ballasts only.

To determine the number of ballasts that can be controlled by Nova T☆ fluorescent dimmer, divide the control capacity by the ballast current.

Compatible with Advance® Mark X® and Sylvania Powersense® ballasts.

Fluorescent Dimmers for Advance® Mark X® VEZ series 277 V~ Ballasts: Preset

Small Control

Description

3-way 277 V~ 60 Hz

Maximum Capacity

3 A

Model Number

NTFTU-103P-277-XX-CPW0196

For control of permanently installed Advance® Mark X® VEZ series 277 V~ ballasts only.

Install on load side only.

No derating required.

To determine the number of ballasts that can be controlled by Nova T☆ fluorescent dimmer, divide the control capacity by the ballast current.

Linear-Slide Switches for General Purpose: All Sources and Motor Loads

Small Control

Description

Single-pole 120/277 V~ 60 Hz

Maximum Capacity

20 A

Model Number

NT-1PS-XX

Description

3-way 120/277 V~ 60 Hz

Maximum Capacity

20 A

Model Number

NT-3PS-XX

Description

4-way 120/277 V~ 60 Hz

Maximum Capacity

20 A

Model Number

NT-4PS-XX

No derating required.

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|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## Control Specifications (continued)

| Low-voltage Momentary Switch                                                                                                                                                                         |                                                                                      |                  |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------|--------------|
|  Small Control                                                                                                      | Description                                                                          | Maximum Capacity | Model Number |
|                                                                                                                                                                                                      | Up to 10 switches per power pack,<br>24 V $\overline{\text{---}}$ /24 V $\sim$ 60 Hz | 1 A              | NTRCS-1-XX   |
| <ul style="list-style-type: none"> <li>For use with Lutron devices (power pack and wired occupancy sensors) only.</li> <li>No derating required.</li> <li>Not available in AL, LA, or SI.</li> </ul> |                                                                                      |                  |              |
| ✂ Fan-Speed Controls: Quiet                                                                                                                                                                          |                                                                                      |                  |              |
|  Small Control                                                                                                      | Description                                                                          | Maximum Capacity | Model Number |
|                                                                                                                                                                                                      | Single-pole, 3-speed 120 V $\sim$ 60 Hz                                              | 1.5 A            | NTFSQ-XX     |
| <ul style="list-style-type: none"> <li>For use with one ceiling paddle fan.</li> <li>No derating required.</li> </ul>                                                                                |                                                                                      |                  |              |
| ⚙ Fan-Speed Controls: Fully Variable                                                                                                                                                                 |                                                                                      |                  |              |
|  Small Control                                                                                                      | Description                                                                          | Maximum Capacity | Model Number |
|                                                                                                                                                                                                      | Single-pole,<br>Adjustable minimum speed 120 V $\sim$ 60 Hz                          | 6 A              | NTFS-6E-XX   |
|  Large Control                                                                                                      | Description                                                                          | Maximum Capacity | Model Number |
|                                                                                                                                                                                                      | Single-pole,<br>Adjustable minimum speed 120 V $\sim$ 60 Hz                          | 12 A             | NTFS-12E-XX  |
| <ul style="list-style-type: none"> <li>For use with one or more ceiling, ventilation, or exhaust fans. Do not mix fan types on same control.</li> </ul>                                              |                                                                                      |                  |              |

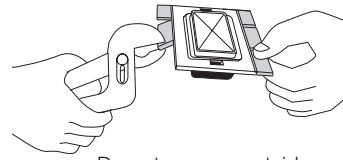
|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## Derating: Maximum Capacities in Multigang Installations\*

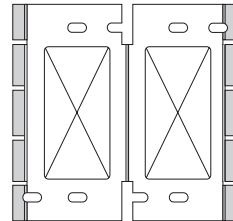
When installing more than one dimmer in the same wallbox, it may be necessary to remove some side sections prior to wiring (see diagram below). Removal of side sections may reduce maximum wattage, as shown in the charts below.

Mixing bulb types (using a combination of LED/CFL and incandescent/halogen bulbs) will also affect the maximum ratings, as shown in the charts below.

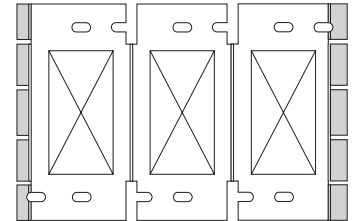
Example: If one set of side sections is removed and you have eight 9 W LED bulbs installed (Total LED Wattage = 72 W), you may add up to 500 W of incandescent or halogen lighting with the C•L control or 300 W with the Reverse-Phase control.



Do not remove outside sections (shaded areas below)



Each control has inside sections removed



Middle control has two side sections removed

| Single Units                                                                               | End Units                | Middle Units              |
|--------------------------------------------------------------------------------------------|--------------------------|---------------------------|
| Full capacity.<br>No side sections removed                                                 | One side section removed | Two side sections removed |
| <b>Incandescent Controls</b>                                                               |                          |                           |
| 600 W                                                                                      | 500 W                    | 300 W                     |
| 1000 W                                                                                     | 900 W                    | 700 W                     |
| 1500 W                                                                                     | 1250 W                   | 1000 W                    |
| 1950 W                                                                                     | —                        | —                         |
| • NT-2000-XX controls (for 1950 W capacity) must be ganged without removing side sections. |                          |                           |

| <b>C•L Controls</b>                                                                                        |       |       |                                                                         |
|------------------------------------------------------------------------------------------------------------|-------|-------|-------------------------------------------------------------------------|
| Maximum Allowable Incandescent/Halogen Wattage                                                             |       | +     | Total LED/CFL Wattage Installed<br>(Wattage per bulb × number of bulbs) |
| 1000 W                                                                                                     | 800 W | 600 W | + 0 W                                                                   |
| 800 W                                                                                                      | 600 W | 500 W | + 1 W – 40 W                                                            |
| 600 W                                                                                                      | 500 W | 400 W | + 41 W – 80 W                                                           |
| 500 W                                                                                                      | 400 W | 300 W | + 81 W – 120 W                                                          |
| 400 W                                                                                                      | 300 W | 200 W | + 121 W – 160 W                                                         |
| 300 W                                                                                                      | 200 W | 100 W | + 161 W – 200 W                                                         |
| 0 W                                                                                                        | 0 W   | 0 W   | + 201 W – 250 W                                                         |
| • No derating is required for multigang installations if only LED bulbs are used or if no fins are broken. |       |       |                                                                         |

| <b>Reverse-Phase Electronic Low-Voltage (ELV) Controls</b>                                                 |       |       |                                                                         |
|------------------------------------------------------------------------------------------------------------|-------|-------|-------------------------------------------------------------------------|
| Maximum Allowable Incandescent/Halogen Wattage                                                             |       | +     | Total LED/CFL Wattage Installed<br>(Wattage per bulb × number of bulbs) |
| 600 W                                                                                                      | 500 W | 400 W | + 0 W                                                                   |
| 500 W                                                                                                      | 400 W | 300 W | + 1 W – 40 W                                                            |
| 400 W                                                                                                      | 300 W | 200 W | + 41 W – 80 W                                                           |
| 300 W                                                                                                      | 200 W | 100 W | + 81 W – 120 W                                                          |
| 200 W                                                                                                      | 100 W | 50 W  | + 121 W – 160 W                                                         |
| 100 W                                                                                                      | 50 W  | 0 W   | + 161 W – 200 W                                                         |
| 0 W                                                                                                        | 0 W   | 0 W   | + 201 W – 250 W                                                         |
| • No derating is required for multigang installations if only LED bulbs are used or if no fins are broken. |       |       |                                                                         |

\* For more information on multigang installations, visit [www.lutron.com/en-US/Service-Support/Pages/Technical/InstallationInstructions/Ganging-Derating/GangingDerating.aspx](http://www.lutron.com/en-US/Service-Support/Pages/Technical/InstallationInstructions/Ganging-Derating/GangingDerating.aspx)

(continued on next page...)

|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

**Derating: Maximum Capacities in Multigang Installations\*** (continued)

| Single Units                                                                                                                 |                            | End Units                                                                                                  |  | Middle Units                                                                                                |  |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------|--|
|  Full capacity.<br>No side sections removed |                            |  One side section removed |  |  Two side sections removed |  |
| Electronic Low-Voltage (ELV) Controls                                                                                        |                            |                                                                                                            |  |                                                                                                             |  |
| 300 W                                                                                                                        |                            | 300 W                                                                                                      |  | 250 W                                                                                                       |  |
| 600 W                                                                                                                        |                            | 500 W                                                                                                      |  | 400 W                                                                                                       |  |
| • Permitted lamp wattage for ELV controls.                                                                                   |                            |                                                                                                            |  |                                                                                                             |  |
| Magnetic Low-Voltage (MLV) Controls                                                                                          |                            |                                                                                                            |  |                                                                                                             |  |
| 600 VA/450 W                                                                                                                 |                            | 500 VA/400 W                                                                                               |  | 300 VA / 250 W                                                                                              |  |
| 1000 VA/800 W                                                                                                                |                            | 900 VA/750 W                                                                                               |  | 700 VA / 500 W                                                                                              |  |
| 1500 VA/1200 W                                                                                                               |                            | 1250 VA/1000 W                                                                                             |  | 1000 VA / 800 W                                                                                             |  |
| • Permitted lamp wattage for MLV controls.                                                                                   |                            |                                                                                                            |  |                                                                                                             |  |
| Fluorescent 3-Wire Ballast or LED Driver Controls                                                                            |                            |                                                                                                            |  |                                                                                                             |  |
| 6 A                                                                                                                          |                            | No derating required                                                                                       |  |                                                                                                             |  |
| 8 A                                                                                                                          |                            | No derating required                                                                                       |  |                                                                                                             |  |
| 16 A                                                                                                                         |                            | No derating required                                                                                       |  |                                                                                                             |  |
| Fluorescent Tu-Wire Controls                                                                                                 |                            |                                                                                                            |  |                                                                                                             |  |
| 3 A                                                                                                                          |                            | No derating required                                                                                       |  |                                                                                                             |  |
| 5 A                                                                                                                          |                            | 4 A                                                                                                        |  | 3.3 A                                                                                                       |  |
| 0–10 V <sup>---</sup> Electronic Ballast or LED Driver Controls                                                              |                            |                                                                                                            |  |                                                                                                             |  |
| Load                                                                                                                         | 0–10 V <sup>---</sup> Sink | No derating required                                                                                       |  |                                                                                                             |  |
| 8 A                                                                                                                          | 30 mA                      |                                                                                                            |  |                                                                                                             |  |
| Quiet Fan-Speed Controls                                                                                                     |                            |                                                                                                            |  |                                                                                                             |  |
| 1.5 A                                                                                                                        |                            | No derating required                                                                                       |  |                                                                                                             |  |
| Fully Variable Fan-Speed Controls                                                                                            |                            |                                                                                                            |  |                                                                                                             |  |
| 6 A                                                                                                                          |                            | 4.2 A                                                                                                      |  | 2.5 A                                                                                                       |  |
| 12 A                                                                                                                         |                            | 10 A                                                                                                       |  | 8.3 A                                                                                                       |  |

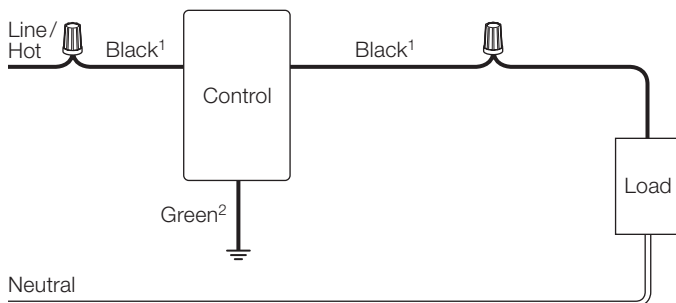
\* For more information on multigang installations, visit [www.lutron.com/en-US/Service-Support/Pages/Technical/InstallationInstructions/Ganging-Derating/GangingDerating.aspx](http://www.lutron.com/en-US/Service-Support/Pages/Technical/InstallationInstructions/Ganging-Derating/GangingDerating.aspx)

|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |



## Wiring Diagrams: Single Location

### Single-Pole Control


**Models:**

- NT-600-XX
- NT-1000-XX
- NT-1500-XX
- NT-2000-XX
- NTCL-250-XX
- NTLV-600-XX
- NTLV-1000-XX
- NTLV-1500-XX
- NT-1PS-XX
- NTFSQ-XX

**Key**

- Ground
- Wire connector

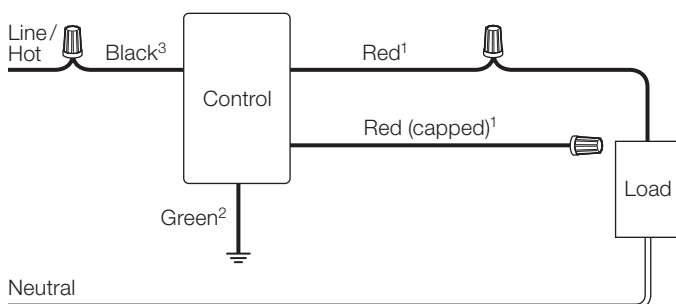
<sup>1</sup> Wire or brass/gold screw terminal\*

<sup>2</sup> Wire or green screw terminal\*

<sup>3</sup> Wire or copper/black screw terminal\*

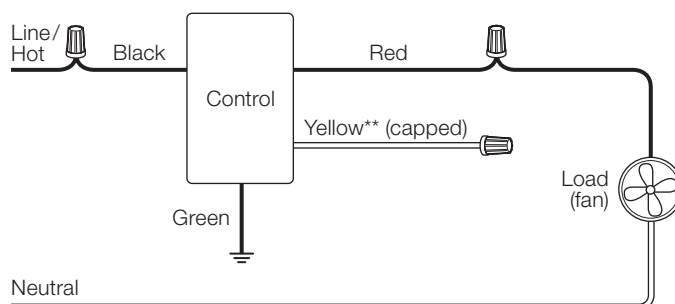
\* Dimmers have wires; switches have screw terminals

### 3-Way Control


**Models:**

- NT-603P-XX
- NT-1003P-XX
- NT-1503P-XX
- NTLV-603P-XX
- NTLV-1003P-XX
- NTLV-1503P-XX
- NT-3PS-XX

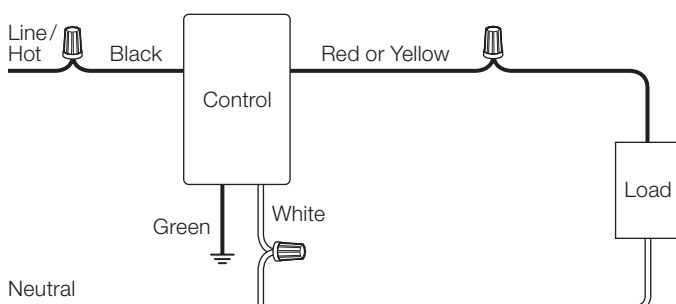
### Fan Control


**Models:**

- NTFS-6E-XX
- NTFS-12E-XX

\*\* Switched full-voltage only

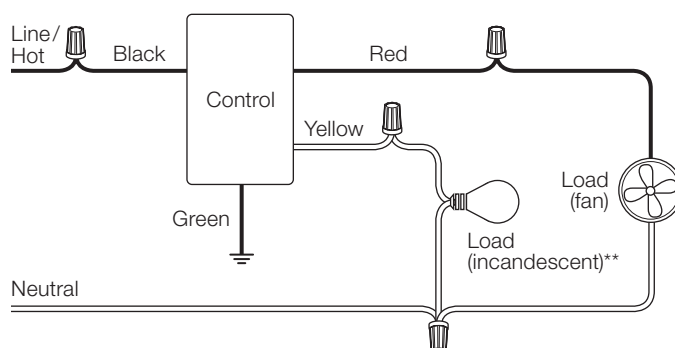
### Single-Pole Control with Neutral


**Models:**

- NTELV-300-XX\*\*
- NTELV-600-XX\*\*
- NTLV-600-277-XX
- NTLV-1000-277-XX
- NTRP-250-XX

\*\* Use NTELV- models with 120 V~ only

### Fan/Light Control


**Models:**

- NTFS-6E-XX
- NTFS-12E-XX

\*\* Switched full-voltage only

Job Name:

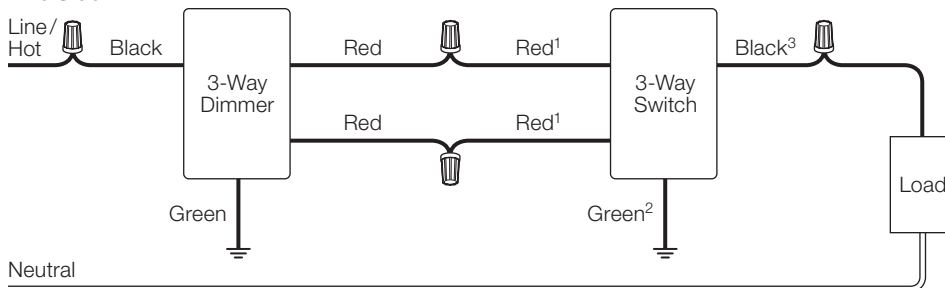
Model Numbers:

Job Number:

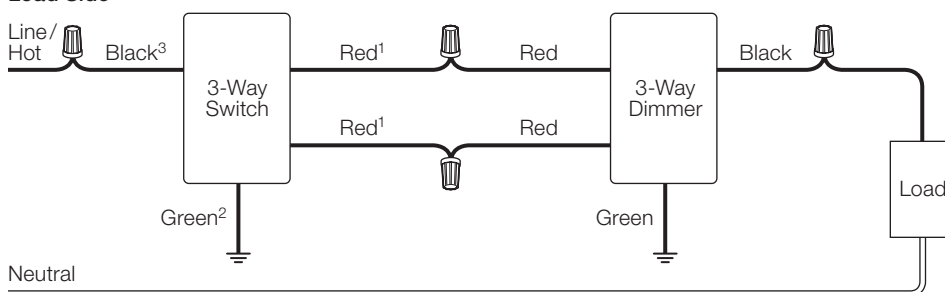
## Wiring Diagrams: Multi-Location

### 3-Way Control

#### Line Side



#### Load Side



#### Models:

- NT-603P-XX
- NT-1003P-XX
- NT-1503P-XX
- NTLV-603P-XX
- NTLV-1003P-XX
- NTLV-1503P-XX
- NT-3PS-XX

#### Key

- Ground
- Wire connector

<sup>1</sup> Wire or brass/gold screw terminal\*

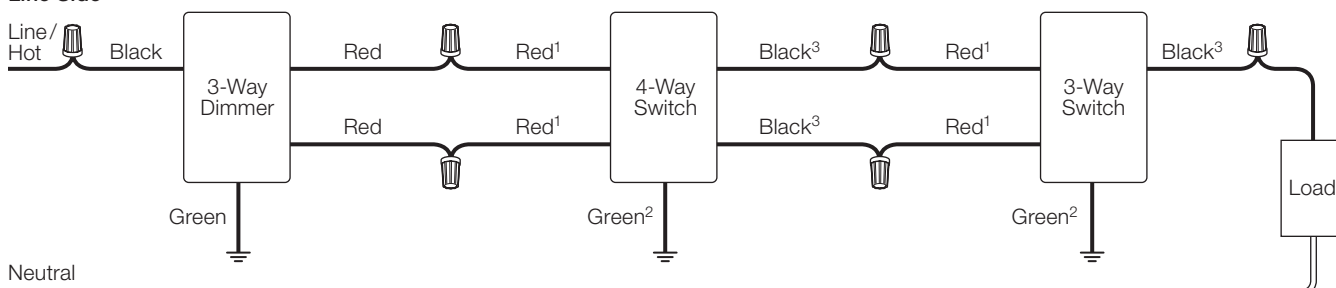
<sup>2</sup> Wire or green screw terminal\*

<sup>3</sup> Wire or copper/black screw terminal\*

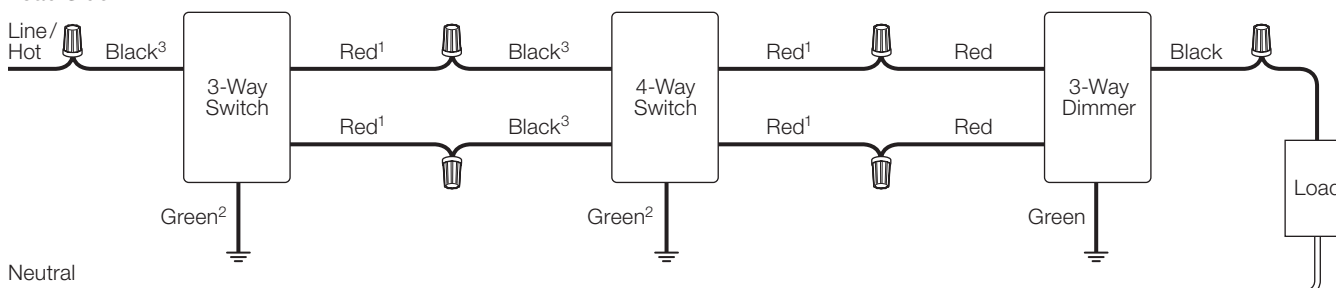
\* Dimmers have wires; switches have screw terminals

### 4-Way Control

#### Line Side



#### Load Side



#### Models:

- NT-603P-XX
- NT-1003P-XX
- NT-1503P-XX
- NTLV-603P-XX
- NTLV-1003P-XX
- NTLV-1503P-XX
- NT-3PS-XX
- NT-4PS-XX

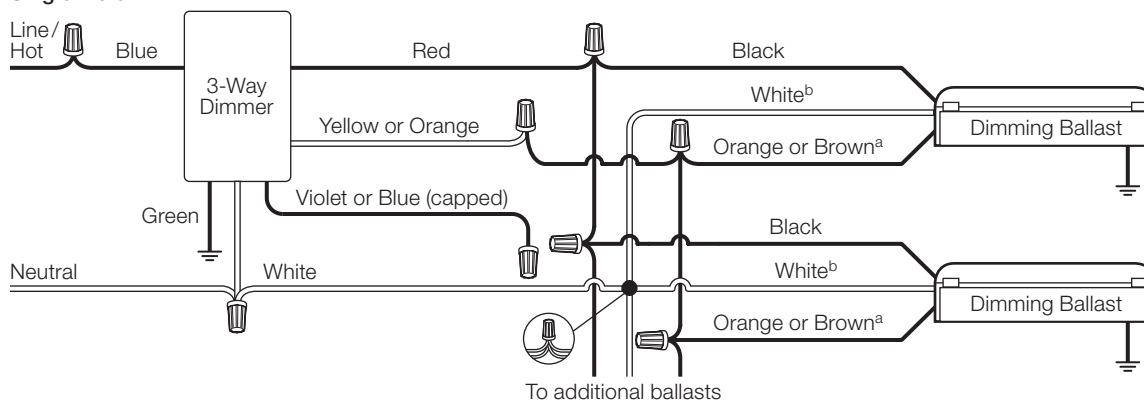
Job Name:

Model Numbers:

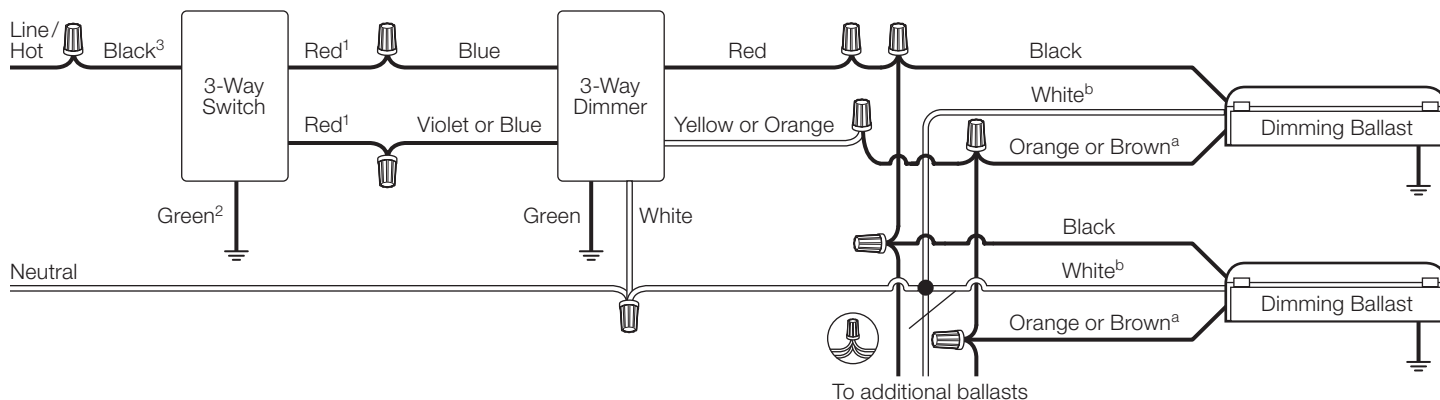
Job Number:

[illegible]

### Single-Pole



### Load Side



- Models:**
- NTF-103P-XX
  - NTF-103P-277-XX

- Ground
- Wire connector
- Typical 4-wire connection

<sup>a</sup> Yellow/Blue or Yellow/Green wire when used with magnetic dimming ballasts

<sup>b</sup> Must use lamp disconnect sockets with magnetic dimming ballasts

<sup>1</sup> Wire or brass/  
gold screw  
terminal\*

<sup>2</sup> Wire or green screw terminal\*

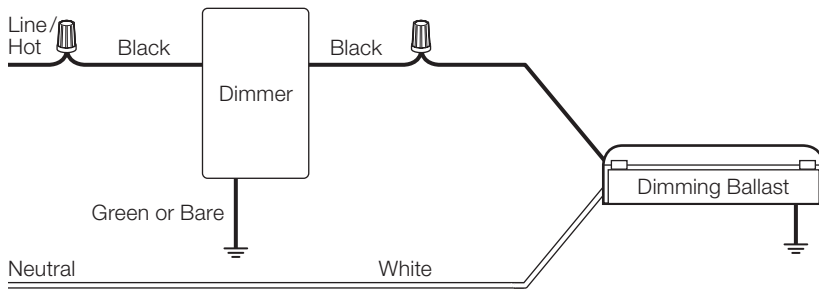
<sup>3</sup> Wire or copper/  
black screw  
terminal\*

- \* Dimmers have wires; switches have screw terminals

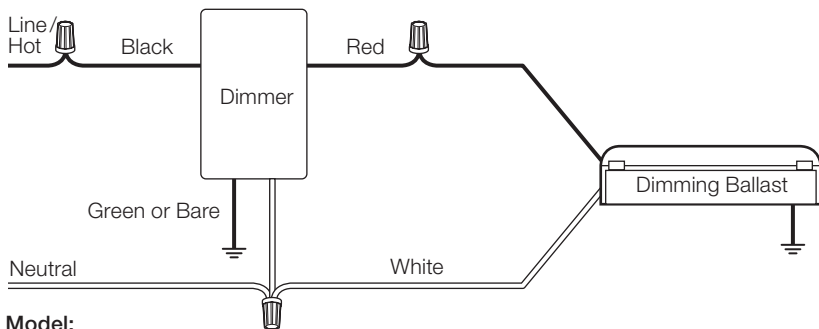
|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## Wiring Diagrams: NTFTU- Controls

### Single-Pole Control


**Model:**

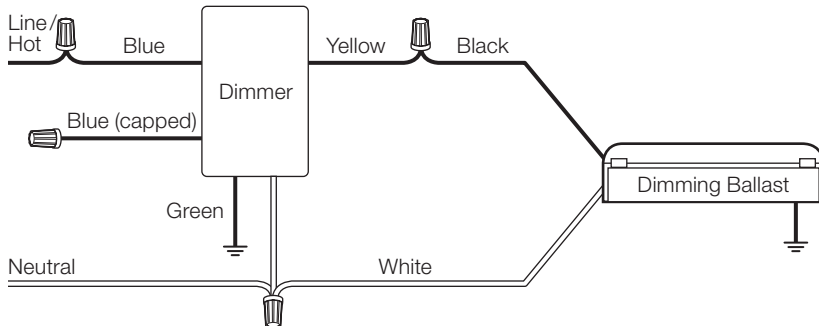
• NTFTU-5A-XX


**Model:**

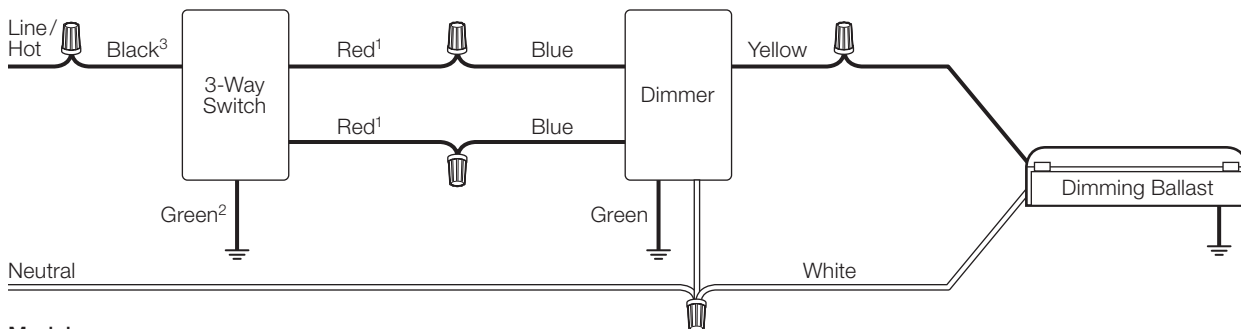
• NTFTU-5A-277-XX

### 3-Way Control

#### Single-Pole



#### Load Side


**Model:**

• NTFTU-103P-277-XX-CPW0196

**Key**

- Ground
- Wire connector

<sup>1</sup> Wire or brass/gold screw terminal\*

<sup>2</sup> Wire or green screw terminal\*

<sup>3</sup> Wire or copper/black screw terminal\*

\* Dimmers have wires; switches have screw terminals

Job Name:

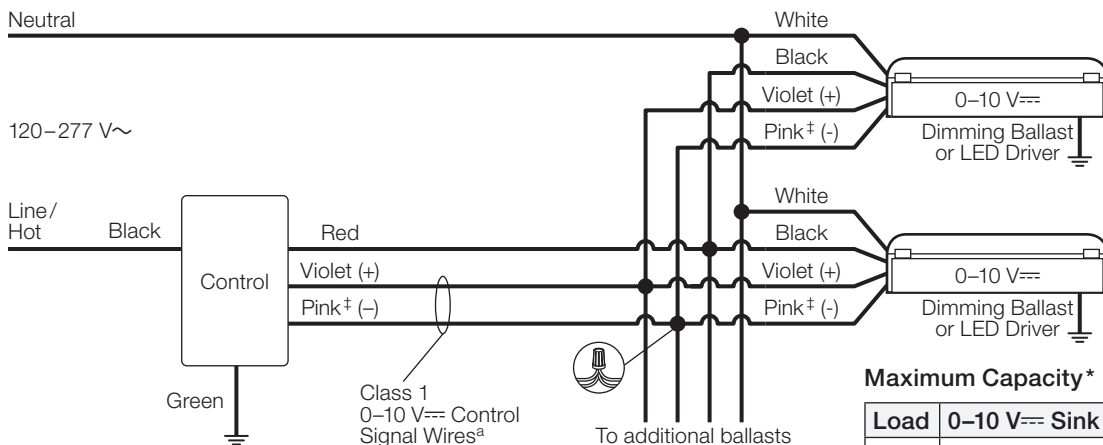
Model Numbers:

Job Number:

## Wiring Diagrams: NTSTV- Controls

- The total 0–10 V $\equiv$  control signal wiring for this control should not exceed 500 ft (152.4 m).
- Do not use wire smaller than 20 AWG (0.75 mm<sup>2</sup>).
- For Class 1 installations, 0–10 V $\equiv$  wires must be run in conduit or approved cable per NEC® or local jurisdiction.
- For Class 2 installations, conduit is typically not required (local code may apply).
- For application with excessive electrical noise, 0–10 V $\equiv$  wires should be run in separate conduit from the mains.

### Class 1 Installation



#### Model:

- NTSTV-DV-XX

#### Maximum Capacity\*

| Load | 0–10 V $\equiv$ Sink |
|------|----------------------|
| 8 A  | 30 mA                |

\* Whichever comes first.

#### Key

- Ground
- Wire connector
- Wire connector
- Typical 4-wire connection

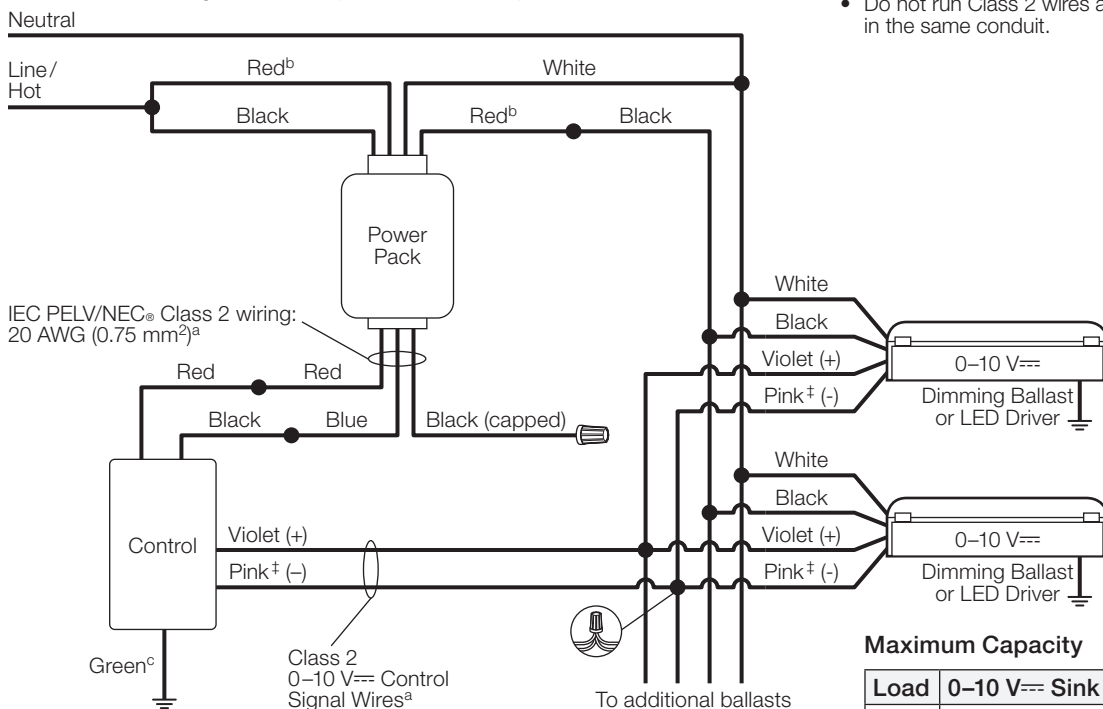
<sup>a</sup> Do NOT connect to line voltage

<sup>b</sup> 18 AWG (1.0 mm<sup>2</sup>) red wires are interchangeable. Connect to either line or load side

<sup>c</sup> Green wire may be capped for Class 2 installations ONLY

### Class 2 Installation

ON/OFF control using Power Pack (PP-DV or PP-347H)



#### Model:

- NTSTV-DV-XX

#### Maximum Capacity

| Load | 0–10 V $\equiv$ Sink |
|------|----------------------|
| **   | 30 mA                |

\*\* See PP- and UPP-Series Power Packs spec submittal, Lutron P/N 369544

<sup>†</sup> This wire/terminal may be gray on older products or in retrofit applications.

## LUTRON SPECIFICATION SUBMITTAL

Page

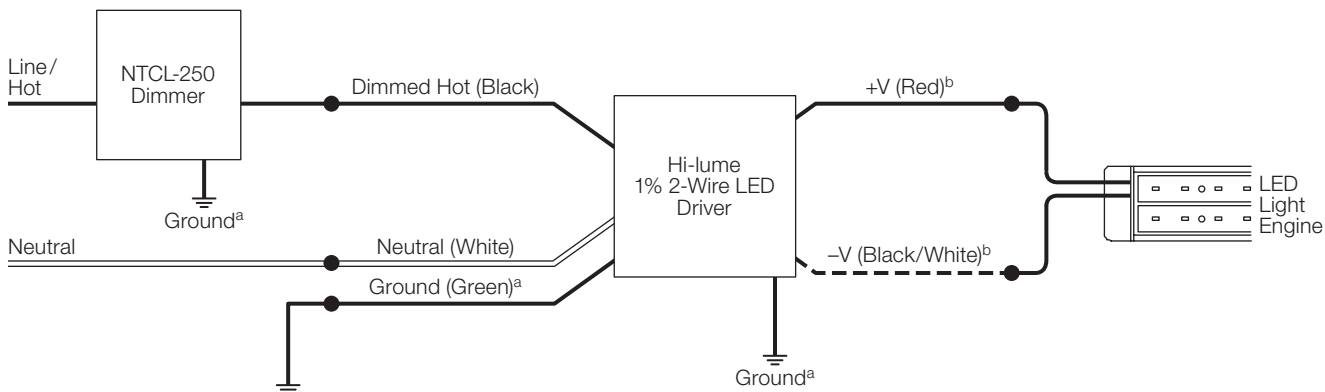
Job Name:

Model Numbers:

Job Number:

## Wiring Diagrams: NTCL- Controls

### Hi-lume 1% 2-Wire LTE LED Driver Installation

**Model:**

- NTCL-250-XX

**Key**

Ground



Wire connector

<sup>a</sup> Enclosure and junction box must be grounded in accordance with local and national electrical codes. Ground provided by grounding of junction box or by using the green ground wire connection

<sup>b</sup> For maximum driver-to-LED light engine wire length, see **Hi-lume 1% 2-Wire LED Driver (P/N 369543)**

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## SPECIFICATION SUBMITTAL

Page

Job Name:

Model Numbers:

Job Number: