

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
- 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 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 |

Job Name:

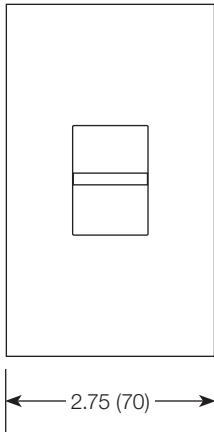
Model Numbers:

Job Number:

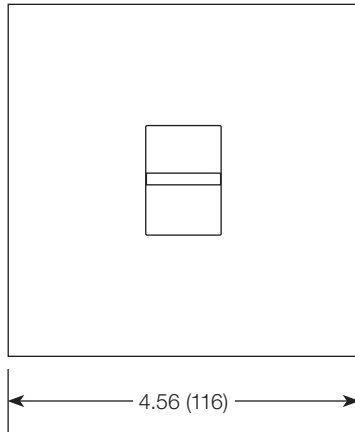
Dimensions

Measurements shown as: in (mm)

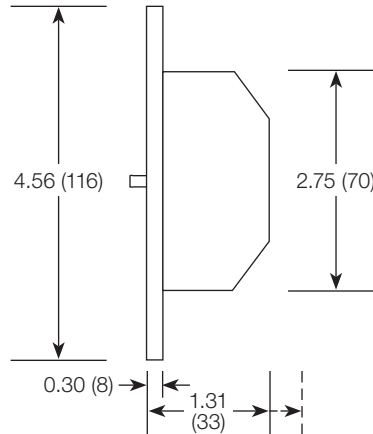
Small Control



Large Control

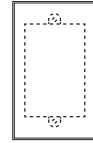


Profile

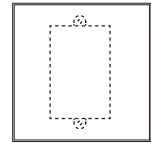


Note: Some models as deep as 1.9 (48)

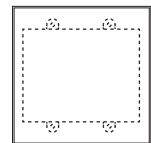
Back Views: NT- models



NT-600
NT-1000



NT-1500



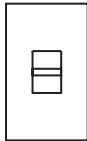
NT-2000

Available Controls and Accessories (Summary)

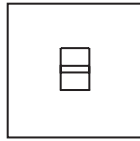
For specific uses, capacities, and model numbers, see the following pages.

Controls

Slide-to-Off Dimmers

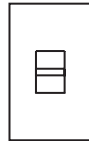


Small Control

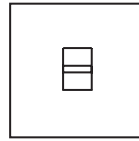


Large Control

Preset Dimmers



Small Control



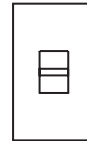
Large Control

Linear-Slide Switches

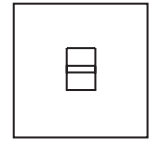


Small Control

Slide-to-Off Fan-Speed Controls



Small Control



Large Control




Job Name:

Model Numbers:

Job Number:



Control Specifications

Incandescent Dimmers: Slide-to-Off

|  <i>Small Control</i> | Description | Maximum Capacity | Model Number |
|--|--------------------------|------------------|--------------|
| | Single-pole 120 V~ 60 Hz | 600 W | NT-600-XX |
|  <i>Large Control</i> | Single-pole 120 V~ 60 Hz | 1000 W | NT-1000-XX |
| | Single-pole 120 V~ 60 Hz | 1500 W | NT-1500-XX |
|  <i>Large Control</i> | Single-pole 120 V~ 60 Hz | 1950 W | NT-2000-XX |
| | Single-pole 120 V~ 60 Hz | 1950 W | NT-2000-XX |


- The NT-2000-XX does not have removable side sections; it can be ganged but must be kept intact.
- The NT-2000-XX requires a 2-gang wallbox.

Incandescent Dimmers: Preset

|  <i>Small Control</i> | Description | Maximum Capacity | Model Number |
|--|--------------------------------------|------------------|--------------|
| | Single-pole/3-way/4-way 120 V~ 60 Hz | 600 W | NT-603P-XX |
|  <i>Large Control</i> | Single-pole/3-way/4-way 120 V~ 60 Hz | 1000 W | NT-1003P-XX |
| | Single-pole/3-way/4-way 120 V~ 60 Hz | 1500 W | NT-1503P-XX |

- For 3-way or 4-way switching, use NT-3PS-XX (3-way), NT-4PS-XX (4-way), or other mechanical switches.

C•L Dimmers: Slide-to-Off

|  <i>Small Control</i> | Description | Maximum Capacity | Model Number |
|--|--|---|--------------|
| | Dimmable LED/CFL Single-pole 120 V~ 60 Hz | 250 W | NTCL-250-XX |
| | Incandescent/Halogen Single-pole 120 V~ 60 Hz | 1000 W | |
| | Hi-lume 1% 2-Wire LTE LED driver Single-pole 120 V~ 60 Hz | 400 W (maximum of 10 drivers) | |
| | Mixed bulb type Single-pole 120 V~ 60 Hz | See Derating: Maximum Capacities in Multigang Installations | |



Application requirements:

- When dimming LEDs or CFLs, **only** bulbs marked or rated as **dimmable** and on the recommended list may be used.
- For a complete list of recommended **dimmable** LEDs and CFLs please visit www.lutron.com/dimcflled. For questions call 1.844.LUTRON1.
- Some dimmable LEDs and CFLs require a minimum number of bulbs for proper operation. For details and the bulb list, visit www.lutron.com/dimcflled
- For LED product selection tool, visit www.lutron.com/ledtool

Features:

- Low-end adjustment to accommodate a wide range of bulbs.
- HEDT Technology: Advanced Lutron dimming circuitry designed for compatibility with most high efficacy light bulbs.
- NEMA SSL-7A Type 2 compliant.

Electronic Low-Voltage (ELV) Dimmers: Slide-to-Off

|  <i>Small Control</i> | Description | Maximum Capacity | Model Number |
|--|--------------------------|------------------|--------------|
| | Single-pole 120 V~ 60 Hz | 300 W | NTELV-300-XX |
|  <i>Large Control</i> | Single-pole 120 V~ 60 Hz | 600 W | NTELV-600-XX |
| | Single-pole 120 V~ 60 Hz | 600 W | NTELV-600-XX |

- Maximum capacity is permitted lamp wattage.
- Requires neutral wire connection.
- 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.
- Minimum Load: 5 W Incandescent/Halogen or 1 ELV transformer. ELV transformer must be loaded per manufacturer's recommendations.











(continued on next page...)

Job Name:

Model Numbers:

Job Number:








Control Specifications (continued)

|  Magnetic Low-Voltage (MLV) Dimmers: Slide-to-Off | | | |
|--|--------------------------------------|-------------------------|---------------------|
|  Small Control | <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 |
|  Large Control | Single-pole 120 V~ 60 Hz | 1500 VA / 1200 W | NTLV-1500-XX |
| <ul style="list-style-type: none"> Maximum capacity is permitted lamp wattage. 277 V~ models require neutral wire connection. | | | |
|  Magnetic Low-Voltage (MLV) Dimmers: Preset | | | |
|  Small Control | <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 |
|  Large Control | Single-pole/3-way/4-way 120 V~ 60 Hz | 1500 VA / 1200 W | NTLV-1503P-XX |
| <ul style="list-style-type: none"> For 3-way or 4-way switching, use NT-3PS-XX (3-way), NT-4PS-XX (4-way), or other mechanical switches. | | | |
|  Fluorescent Dimmers for Lutron 3-wire fluorescent ballasts or LED drivers: Slide-to-Off | | | |
|  Small Control | <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"> Use with Lutron 3-wire fluorescent ballasts or LED drivers only. For LED loads, please see the "Report Cards" at www.lutron.com/ledtool for proper loading of the dimmer. 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. | | | |
|  Fluorescent Dimmers for Lutron 3-wire fluorescent ballasts or LED Drivers: Preset | | | |
|  Small Control | <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"> Use with Lutron 3-wire fluorescent ballasts or LED drivers only. For LED loads, please see the "Report Cards" at www.lutron.com/ledtool for proper loading of the dimmer. 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. To determine the number of ballasts that can be controlled by Nova T☆ fluorescent dimmer, divide the control capacity by the ballast current. | | | |

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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 | Maximum Capacity | | Model Number |
| | | Dimmable LED/CFL; Single-pole 120 V~ 60 Hz | 250 W | | NTRP-250-XX |
| | | Incandescent/Halogen Single-pole 120 V~ 60 Hz | 600 W | | |
| | | ELV with Halogen Single-pole 120 V~ 60 Hz | 600 W | | |
| <ul style="list-style-type: none">• 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 \equiv Dimmers for Electronic Ballasts or LED Drivers: Slide-to-Off | | | | | |
|  | Small Control | Description | Maximum Capacity* | | Model Number |
| | | Single-pole 0–10 V \equiv 120–277 V~ | Load | 0–10 V \equiv Sink | NTSTV-DV-XX |
| | | | 8 A | 30 mA | |
| <ul style="list-style-type: none">• 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\equiv sink currents.• Control has a high and low end trim to adjust the 0–10 V\equiv output for optimal dimming performance. <p>* Limited by whichever rating is achieved first.</p> | | | | | |
|  Fluorescent Dimmers for Tu-Wire Electronic Ballasts: Slide-to-Off | | | | | |
|  | Small Control | Description | Maximum Capacity | | Model Number |
| | | Single-pole 120 V~ 60 Hz | 5 A | | NTFTU-5A-XX |
| | | Single-pole 277 V~ 60 Hz | 5 A | | NTFTU-5A-277-XX |
| <ul style="list-style-type: none">• 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\star fluorescent dimmer, divide the control capacity by the ballast current.• Compatible with Advance\circledR Mark X\circledR and Sylvania Powersense\circledR ballasts. | | | | | |
|  Fluorescent Dimmers for Advance \circledR Mark X \circledR VEZ series 277 V~ Ballasts: Preset | | | | | |
|  | Small Control | Description | Maximum Capacity | | Model Number |
| | | 3-way 277 V~ 60 Hz | 3 A | | NTFTU-103P-277-XX-CPW0196 |
| <ul style="list-style-type: none">• For control of permanently installed Advance\circledR Mark X\circledR 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\star fluorescent dimmer, divide the control capacity by the ballast current. | | | | | |
| Linear-Slide Switches for General Purpose: All Sources and Motor Loads | | | | | |
|  | Small Control | Description | Maximum Capacity | | Model Number |
| | | Single-pole 120/277 V~ 60 Hz | 20 A | | NT-1PS-XX |
| | | 3-way 120/277 V~ 60 Hz | 20 A | | NT-3PS-XX |
| | | 4-way 120/277 V~ 60 Hz | 20 A | | NT-4PS-XX |
| <ul style="list-style-type: none">• 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, 24 V $\overline{\text{---}}$ /24 V \sim 60 Hz | 1 A | NTRCS-1-XX |
| <ul style="list-style-type: none"> For use with Lutron devices (power pack and wired occupancy sensors) only. No derating required. Not available in AL, LA, or SI. | | | |
| ✂ 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"> For use with one ceiling paddle fan. No derating required. | | | |
| ⚙ Fan-Speed Controls: Fully Variable | | | |
|  Small Control | Description | Maximum Capacity | Model Number |
| | Single-pole, Adjustable minimum speed 120 V \sim 60 Hz | 6 A | NTFS-6E-XX |
|  Large Control | Description | Maximum Capacity | Model Number |
| | Single-pole, Adjustable minimum speed 120 V \sim 60 Hz | 12 A | NTFS-12E-XX |
| <ul style="list-style-type: none"> For use with one or more ceiling, ventilation, or exhaust fans. Do not mix fan types on same control. | | | |

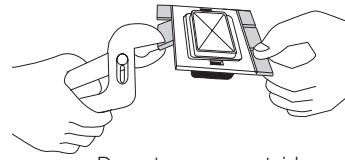
| | |
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| Job Name: | Model Numbers: |
| Job Number: | |

Derating: Maximum Capacities in Multigang Installations*

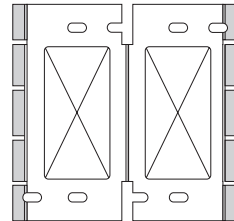
When installing more than one dimmer in the same wallbox, it may be necessary to remove some side sections prior to wiring (see diagram below). Removal of side sections may reduce maximum wattage, as shown in the charts below.

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.

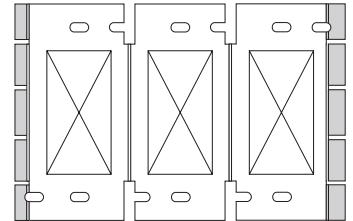
Example: If one set of side sections is removed and you have eight 9 W LED bulbs installed (Total LED Wattage = 72 W), you may add up to 500 W of incandescent or halogen lighting with the C•L control or 300 W with the Reverse-Phase control.



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. No side sections removed | One side section removed | Two side sections removed |
| Incandescent Controls | | |
| 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. | | |

| C•L Controls | | | |
|--|-------|-------|---|
| Maximum Allowable Incandescent/Halogen Wattage | | + | Total LED/CFL Wattage Installed (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. | | | |







| Reverse-Phase Electronic Low-Voltage (ELV) Controls | | | |
|--|-------|-------|---|
| Maximum Allowable Incandescent/Halogen Wattage | | + | Total LED/CFL Wattage Installed (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

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

Derating: Maximum Capacities in Multigang Installations* (continued)

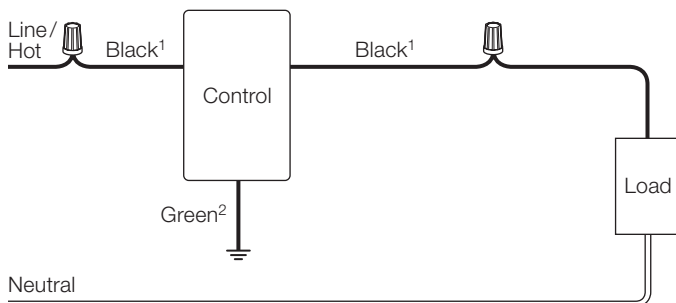
| Single Units | | End Units | | Middle Units | |
|--|---------------------------|--|--|---|--|
|  Full capacity. No side sections removed | |   One side section removed | |    Two side sections removed | |
| Electronic Low-Voltage (ELV) Controls | | | | | |
| 300 W | | 300 W | | 250 W | |
| 600 W | | 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 ^{ac} Electronic Ballast or LED Driver Controls | | | | | |
| Load | 0–10 V ^{ac} 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

| | |
|--------------------|-----------------------|
| 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

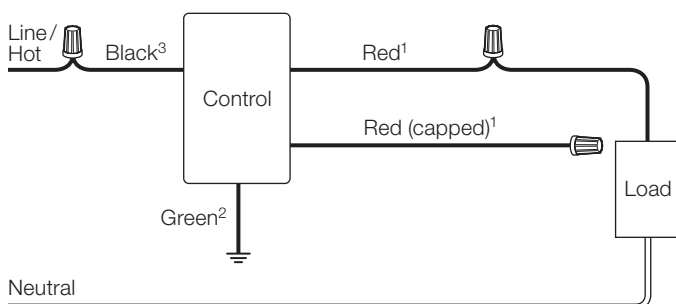
¹ Wire or brass/gold screw terminal*

² Wire or green screw terminal*

³ Wire or copper/black screw terminal*

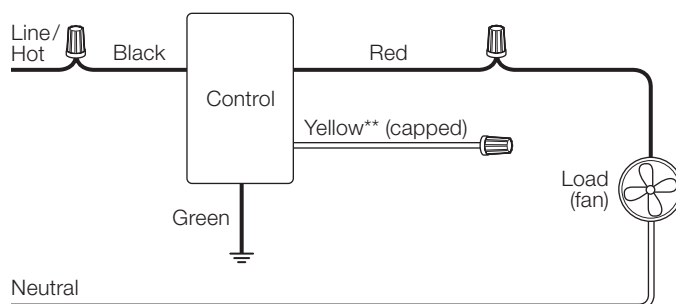
* Dimmers have wires; switches have screw terminals

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

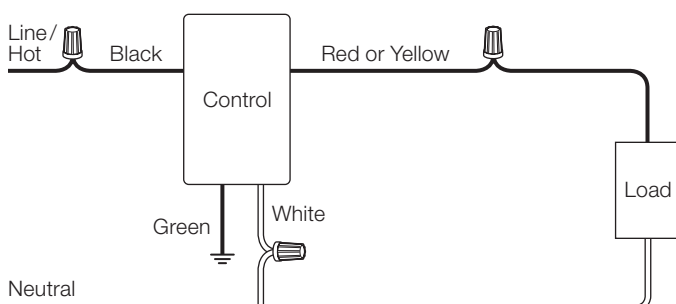
Fan Control


Models:

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

** Switched full-voltage only

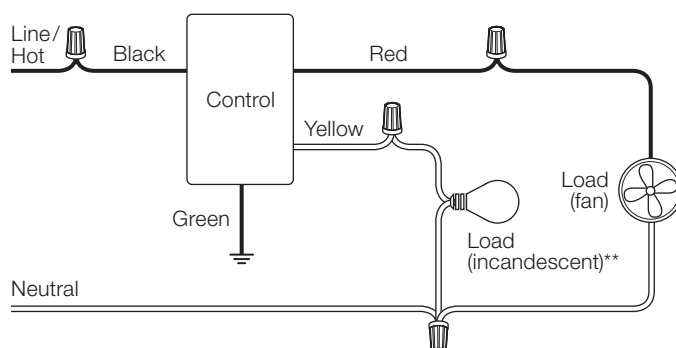
Single-Pole Control with Neutral


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:

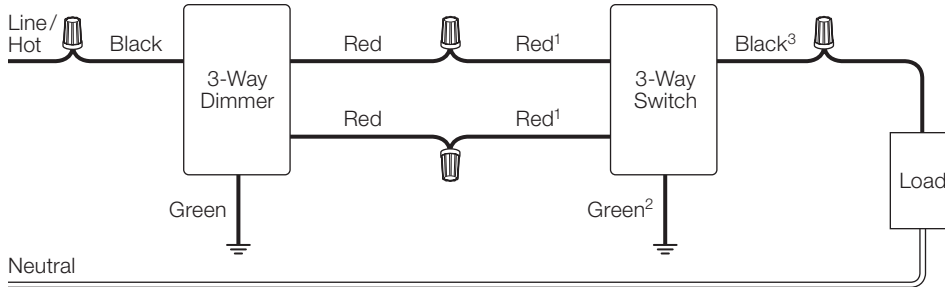
Model Numbers:

Job Number:

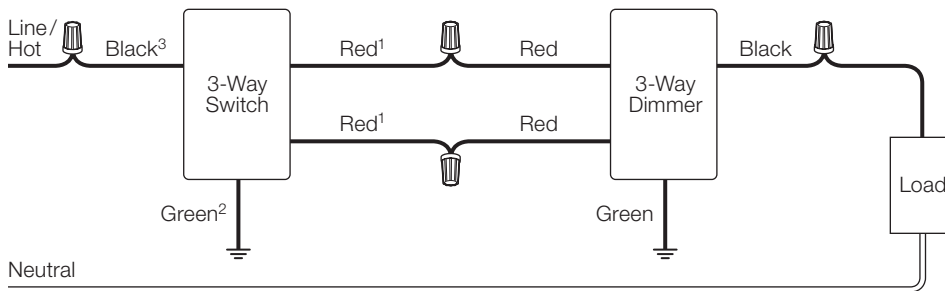
Wiring Diagrams: Multi-Location

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

¹ Wire or brass/gold screw terminal*

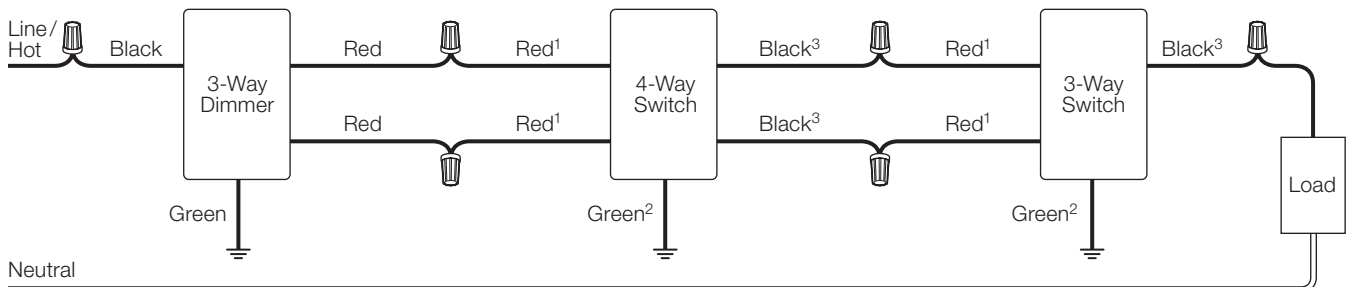
² Wire or green screw terminal*

³ Wire or copper/black screw terminal*

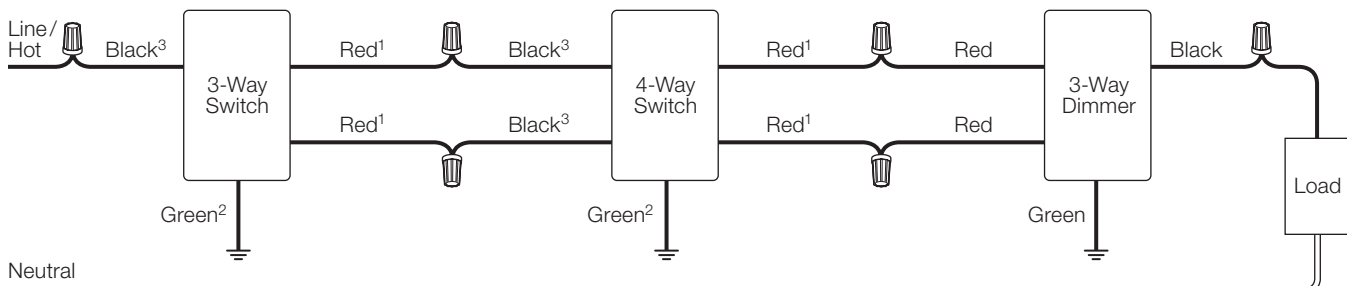
* Dimmers have wires; switches have screw terminals

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]

This diagram illustrates the wiring for a 3-way dimmer switch. The switch has three terminals: a common terminal and two traveler terminals. The common terminal is connected to the Line/Hot (Blue) wire. The two traveler terminals are connected to the Red and Black wires. The Red wire is connected to the White^b wire of the first dimming ballast. The Black wire is connected to the Orange or Brown^a wire of the first dimming ballast. The White^b wire of the second dimming ballast is connected to the White wire of the first dimming ballast. The Orange or Brown^a wire of the second dimming ballast is connected to the Orange or Brown^a wire of the first dimming ballast. The Green wire is connected to the ground. The Violet or Blue (capped) wire is connected to the common terminal of the 3-way dimmer switch. The Neutral wire is connected to the White wire of the first dimming ballast. The diagram also shows a connection to additional ballasts.

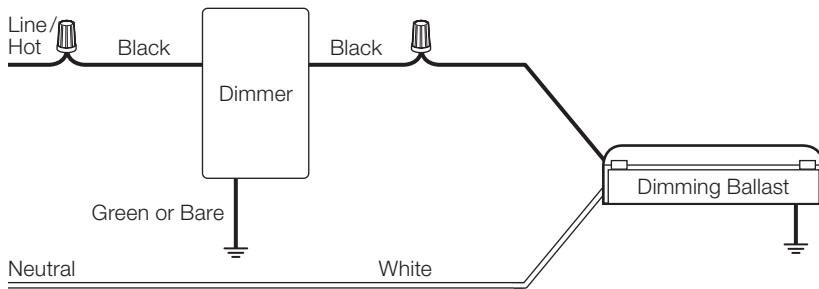
This diagram illustrates the wiring for a 3-way dimmer switch controlling two dimming ballasts. The system includes a 3-Way Switch, a 3-Way Dimmer, and two Dimming Ballasts. The wiring is as follows:

- Line/Hot:** Connected to the 3-Way Switch via a black wire (labeled Black³).
- Neutral:** A common neutral wire runs through the system.
- 3-Way Switch:**
 - Common terminal: Connected to the Line/Hot (Black³).
 - Traveler 1: Connected to the 3-Way Dimmer via a red wire (labeled Red¹).
 - Traveler 2: Connected to the 3-Way Dimmer via a red wire (labeled Red¹).
 - Ground: Connected to ground via a green wire (labeled Green²).
- 3-Way Dimmer:**
 - Common terminal: Connected to the 3-Way Switch via a blue wire.
 - Traveler 1: Connected to the 3-Way Switch via a red wire (labeled Red).
 - Traveler 2: Connected to the 3-Way Switch via a violet or blue wire.
 - Ground: Connected to ground via a green wire.
 - White: Connected to the common neutral wire.
- Dimming Ballasts:**
 - Top Ballast:**
 - Black: Connected to the 3-Way Dimmer via a red wire (labeled Red).
 - White^b: Connected to the 3-Way Dimmer via a yellow or orange wire.
 - Orange or Brown^a: Connected to the 3-Way Dimmer via a red wire (labeled Red).
 - Bottom Ballast:**
 - Black: Connected to the 3-Way Dimmer via a red wire (labeled Red).
 - White^b: Connected to the 3-Way Dimmer via a yellow or orange wire.
 - Orange or Brown^a: Connected to the 3-Way Dimmer via a red wire (labeled Red).
- Additional Connections:**
 - A connection point labeled "To additional ballasts" is shown on the common neutral wire.
 - Grounding symbols are present at the 3-Way Switch, 3-Way Dimmer, and both Dimming Ballasts.

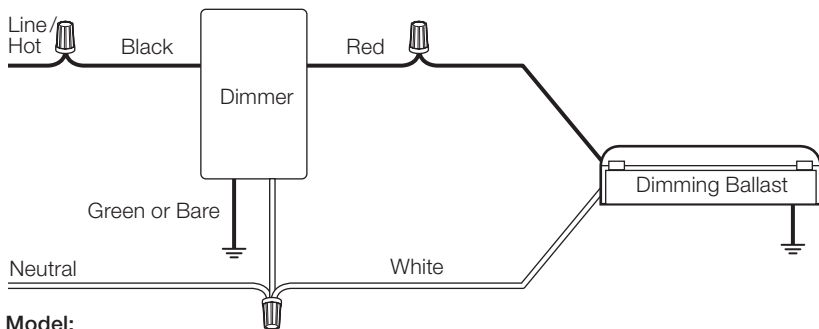
- * Dimmers have wires; switches have screw terminals

Wiring Diagrams: NTFTU- Controls

Single-Pole Control


Model:

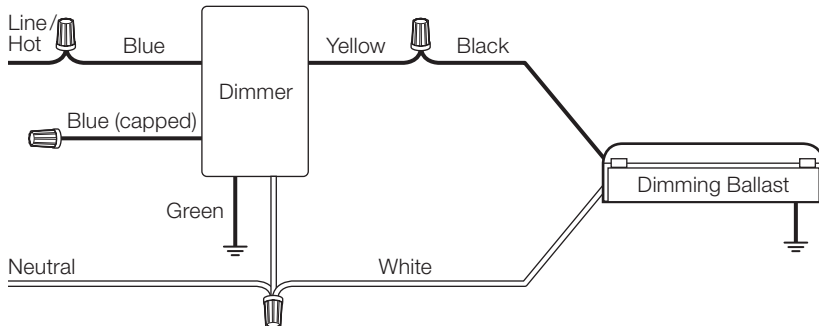
• NTFTU-5A-XX


Model:

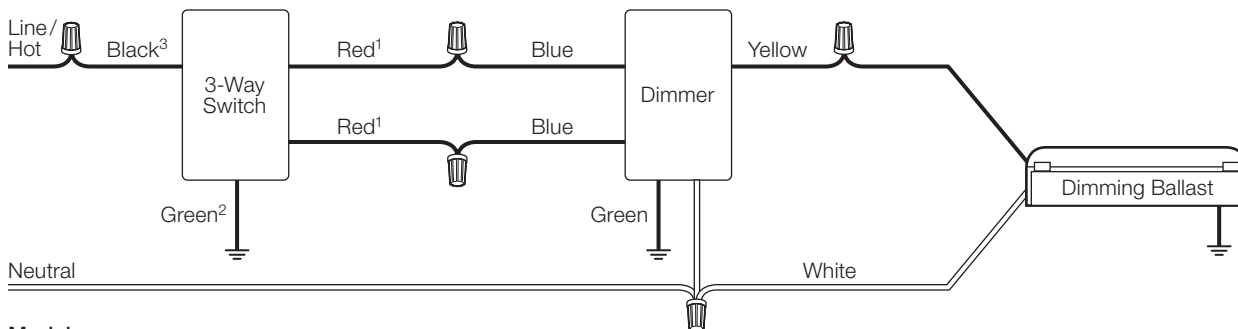
• NTFTU-5A-277-XX

3-Way Control

Single-Pole



Load Side


Model:

• NTFTU-103P-277-XX-CPW0196

Key

⏏ Ground

⏏ Wire connector

¹ Wire or brass/gold screw terminal*

² Wire or green screw terminal*

³ Wire or copper/black screw terminal*

* Dimmers have wires; switches have screw terminals

Job Name:

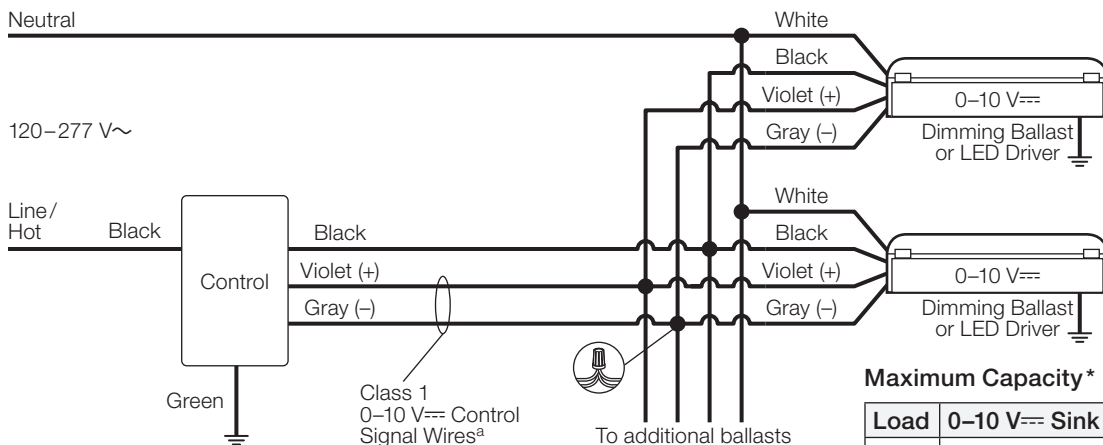
Model Numbers:

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 mm²).
- 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

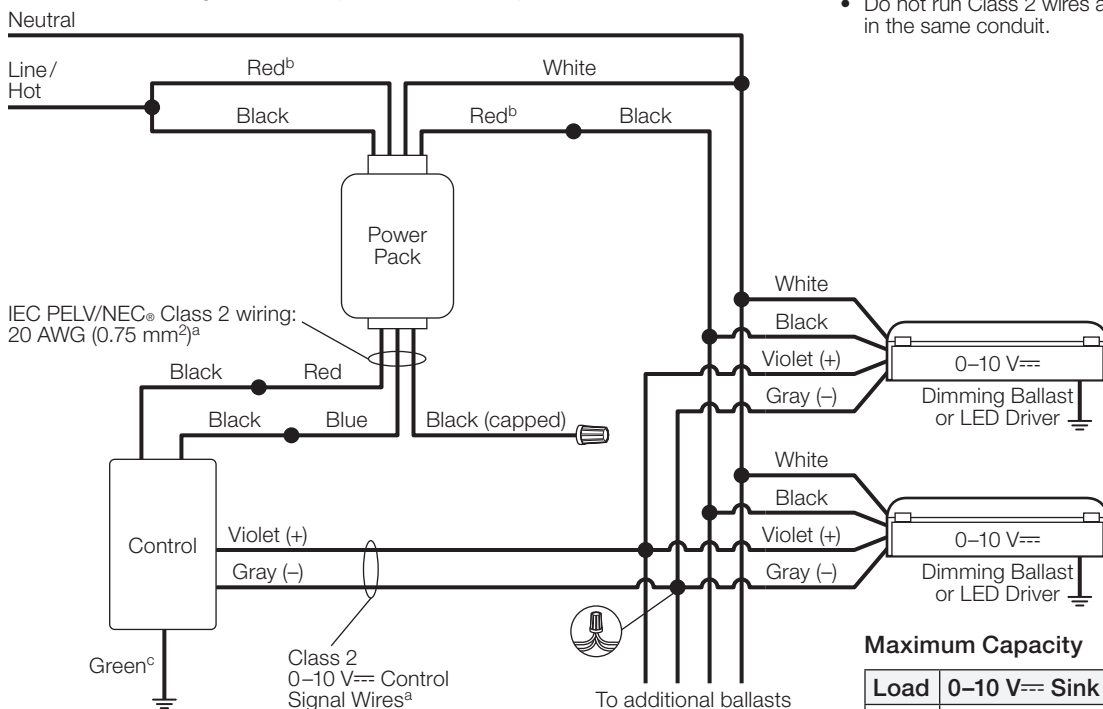
^a Do NOT connect to line voltage

^b 18 AWG (1.0 mm²) red wires are interchangeable. Connect to either line or load side

^c 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

LUTRON SPECIFICATION SUBMITTAL

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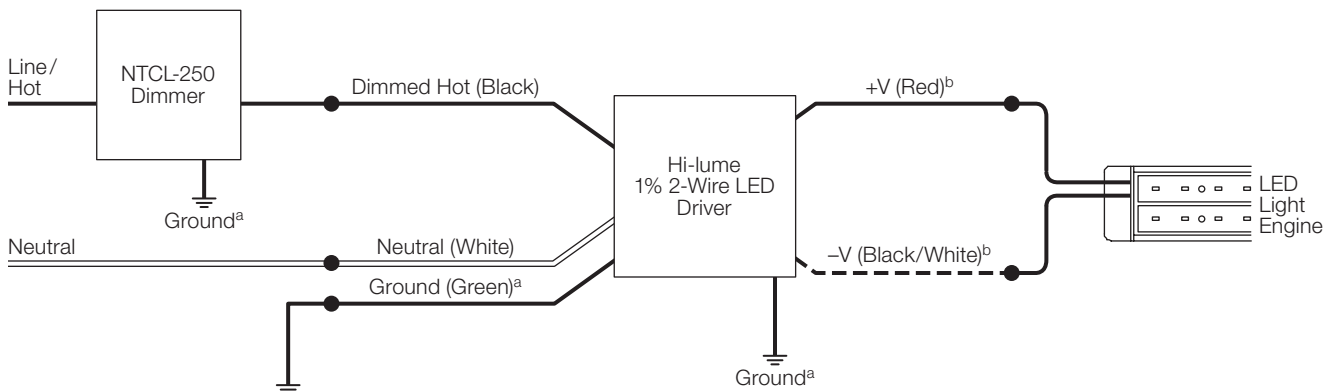
Job Name:

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

^a 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

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

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Job Name:

Model Numbers:

Job Number: