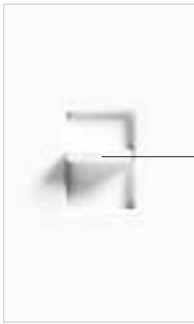


Thin-profile slide dimmer.



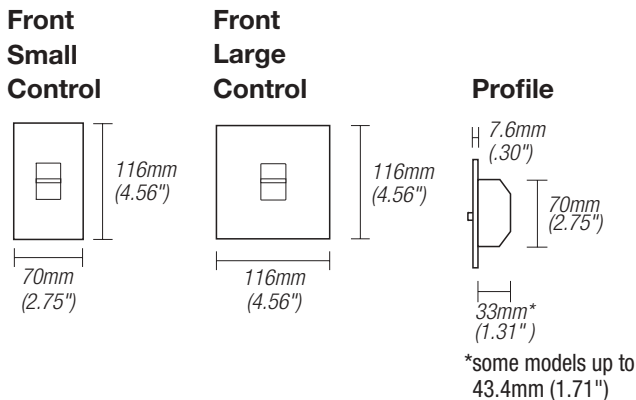
Select light level with slider; slide down to off

Slide-to-off Dimmer

PRODUCT FAMILY FEATURES

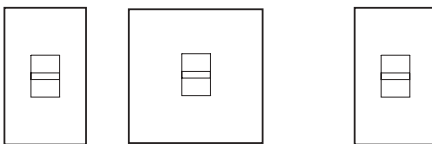
- Aesthetically pleasing linear-slide dimmer
- Linear-slide position directly corresponds to the light level perceived by the eye
- Heavy duty components for surge protection and long product life
- Multigang wallplates, personalized engraving, company logos, and custom color matching complete a coordinated look
- Precise color matching across all controls

DIMENSIONS



CONTROLS

Slide-to-Off Dimmers



Small Control

Large Control

Switch

SPECIFICATION SERIES STANDARD FEATURES

- Voltage compensation
- Superior RFI suppression
- Power-failure memory

Lutron controls are rated at 220-240 VAC, 50 Hz unless otherwise noted.

Description	Maximum Capacity	Model #
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DIMMERS

Incandescent		
<i>Slide-to-Off Dimmers¹</i>		
	SMALL CONTROL	
Single pole	600W	NT-600-AU-
Single pole	1000W	NT-1000-AU-
Single pole	1800W	NT-1800-AU-
Magnetic Low Voltage		
<i>Slide-to-Off Dimmers¹</i>		
	SMALL CONTROL	
Single pole	600VA (450W)	NTLV-600-AU-
Single pole	1000VA (800W)	NTLV-1000-AU-
	LARGE CONTROL	
Single pole	1500VA (1200W)	NTLV-1500-AU-
Fluorescent		
<i>Slide-to-Off Dimmer²</i>		
	SMALL CONTROL	
Single pole	8A	NTF-10-AU-

Note: Use with Lutron Hi-lume or Eco-10 (ECO-Series) line voltage control Electronic Dimming Ballasts only. Contact Lutron for 60Hz units.

LINEAR-SLIDE SWITCHES

General Purpose Switching of All Sources and Motor Loads		
<i>Linear-Slide Switch</i>		
	SMALL CONTROL	
1 or 2 way	16A	NT-2WS-AU-





T[☆] SWITCHBOXES

<i>Gangable Switch Box</i>		
	1-gang	241-218-

- 1 Control must be ganged without removing side sections.
- 2 Requires neutral wire connection.

JOB NAME	AREA CONTROLLED
LOCATION	JOB NUMBER
TITLE	PAGE NO.

STANDARD MULTIGANG WALLPLATES

Description	Model #
 <p>Single-gang wallplate is provided with Nova T[☆] product.</p>	
2-Gang	
 <p>FOR TWO DIMMERS OR SWITCHES 140mmW (5.50") x 116mmH (4.56")</p>	NT-SS-NFB-
3-Gang	
 <p>FOR THREE DIMMERS OR SWITCHES 210mmW (8.25") x 116mmH (4.56")</p>	NT-SSS-NFB-
4-Gang	
 <p>FOR FOUR DIMMERS OR SWITCHES 280mmW (11.00") x 116mmH (4.56")</p>	NT-SSSS-NFB-

STANDARD COLORS/FINISHES

Matte Finishes (Ships in 3-5 days)

Add color/finish suffix to model number to order.
Example: NT-600-AU-**WH**

WH	White
BE	Beige
IV	Ivory
GR	Gray
BR	Brown
BL	Black
TP	Taupe

SPECIAL ORDER MULTIGANG AND METAL WALLPLATES

Multigang and metal wallplates are available. When ordering product for use with metal wallplates, the product and wallplate must be ordered separately. See below for complete list of metal finishes.

Metal Finishes (Ships in 4-6 weeks)

SB	Satin Brass
BB	Bright Brass
BC	Bright Chrome

Special Metal Finishes

QB	Antique Brass
QZ	Antique Bronze
SC	Satin Chrome
SN	Satin Nickel
BN	Bright Nickel

Anodized Aluminum Finishes

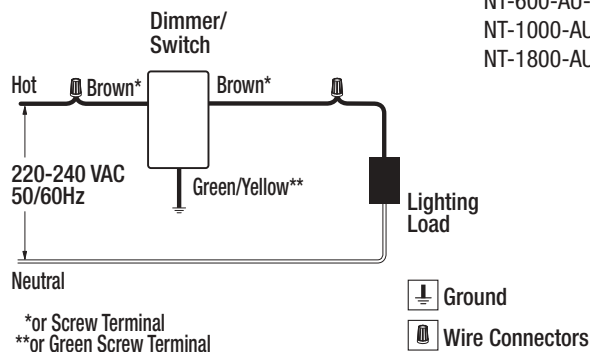
CLA	Clear Anodized Aluminum
BLA	Black Anodized Aluminum
BRA	Brass Anodized Aluminum

WIRING DIAGRAMS

Wiring Diagram 1 Single-Pole Wiring Incandescent

Model #

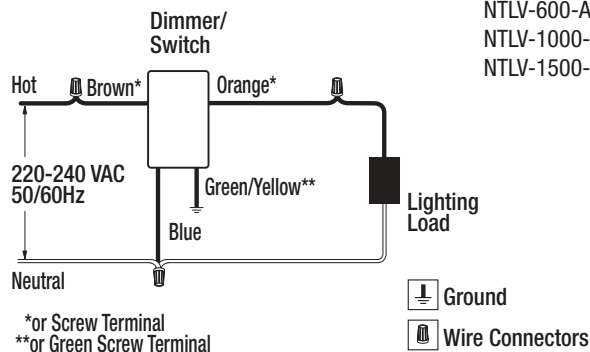
NT-600-AU-
NT-1000-AU-
NT-1800-AU-



Wiring Diagram 2 Single-Pole Wiring Magnetic Low Voltage

Model #

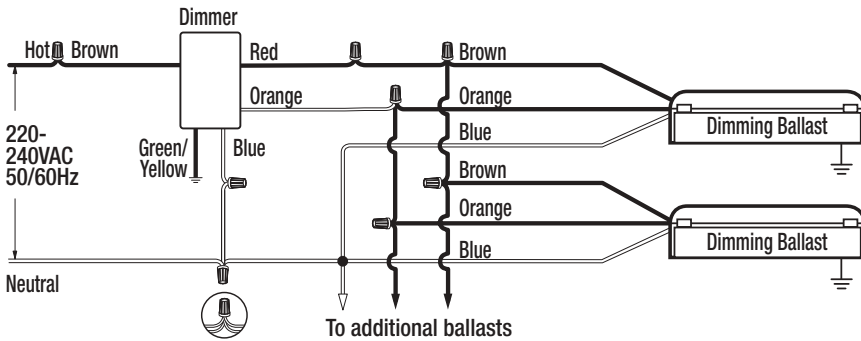
NTLV-600-AU-
NTLV-1000-AU-
NTLV-1500-AU-



**Wiring Diagram 2
Single-Pole Wiring**

Model #

NTF-10-AU -



Typical 4-way connection

- Ground
- Wire Connectors

Note:
Rapid-start lamp sockets are required.
Must burn in lamps at full light output for 100 hours to achieve optimum dimming performance and lamp life.

NOVA T[☆] CONTROLS AND ACCESSORIES

PART 1 – GENERAL

1.01 SUMMARY

- A. Scope: Provide, install and test all switches, dimmers and related devices as specified herein for the areas indicated on the drawings, specifications, and load schedules.
- B. Related Sections: Section 16580 (Ballasts), Section 16570 (Dimming Systems).

1.02 REFERENCES

- A. UL 20, UL 1472, IEEE, ISO 9001, ASTM D4674-89

1.03 SYSTEM DESCRIPTION AND OPERATION

- A. Permanently installed, wallbox mounted switches and dimmers
- B. Screwless, seamless wallplates

1.04 SUBMITTALS

- A. Submit manufacturer's standard catalog data giving all application, wiring, and installation information on basic components and wallplate kits. Provide test data and/or samples as required to demonstrate conformance with PART 2 of this specification.

1.05 QUALITY ASSURANCE

- A. Manufacturer shall have a minimum of 10 years continuous experience in manufacturing wallbox dimming products.
- B. Dimmers and switches shall be UL listed specifically for each required load (i.e., tungsten, magnetic low-voltage transformer, and fluorescent). Manufacturer shall provide declaration of conformity upon request. Universal load-type dimmers shall not be acceptable.
- C. Manufacturer shall maintain ISO 9001 certification and provide a copy of the certificate upon request.

1.06 WARRANTY

- A. All devices shall be covered by a minimum one-year warranty.

PART 2 – EQUIPMENT

2.01 ACCEPTABLE MANUFACTURERS

- A. Lutron Electronics Co., Inc.
- B. Unless otherwise noted, all basic components (dimmer, switch) and wallplate kits shall be provided by one manufacturer.

2.02 EQUIPMENT

- A. Controls Lutron Nova T[☆] Style
 - 1. Performance
 - a. Dimmers shall provide full-range, continuously variable control of light intensity. Dimmers shall provide a vertical slider allowing the light level to be set by the user. Dimmers shall use the vertical slider to turn the dimmer on and off.
 - b. Dimmer on/off function must be accomplished utilizing a mechanical air-gap switch to totally disconnect power from the load during "off" condition, no leakage current shall be present at the fixture(s).
 - c. Controls shall be capable of operating at the rated capacity; this includes modified capacities for ganging configurations which require the removal of fins. Operation at rated capacity shall be possible across the full ambient temperature range, without shortening design lifetime.
 - d. Controls shall operate in an ambient temperature range of 0°C (32°F) to 40°C (104°F).
 - e. Controls shall incorporate power-failure memory. Should power be interrupted and subsequently returned, the lights will come back on to the same levels set prior to the power interruption. Restoration to some other default level is not acceptable.
 - f. Controls shall not be susceptible to damage or loss of memory due to static discharge experienced during normal use.
 - g. Dimmer shall provide smooth and continuous Square Law dimming curve, for the full slider travel, on their rated load per The IESNA Lighting Handbook, 9th edition, p. 27-4.

- h. Dimmers shall meet the applicable requirements of UL20 and UL 1472, referring to the inclusion of a visible, accessible air-gap off switch and the limited short circuit test.
 - i. Slider shall be captured behind wallplate.
 - j. Controls shall be able to have their visible plastic parts replaced, for color changes in the field, without removing the body of the control from the wall and with requiring special tools.
 - k. Dimmers shall meet IEEE Std. C62.41-1980, tested to withstand voltage surges of up to 6000V and current surges of up to 200A.
 - l. Within rated capacity, dimmers shall be available for direct control of incandescent, magnetic low voltage, and fluorescent.
 - m. Dimmer shall include voltage compensation to compensate light output for variation in the AC line-voltage. Dimmers in which the light output is not held constant with varying AC line-voltage shall not be acceptable.
 - n. Contractors shall install all backboxes with a minimum wallbox depth of 63mm (2.5 inches).
2. Incandescent Dimmers
- a. Provide incandescent dimmers for direct control of up to 1800 Watts.
3. Magnetic Low Voltage (MLV) Transformer Dimmers
- a. Dimmers shall contain circuitry specifically designed to control and provide a symmetrical AC waveform to the input of magnetic low voltage transformers per UL 1472 section 5.11.
 - b. Provide MLV dimmers for direct control of up to 1500VA of magnetic low voltage load.
 - c. Dimmers shall not cause a magnetic low voltage transformer to operate above the transformer's rated operating current or temperature.
4. Fluorescent Dimming Ballast Dimmers
- a. Dimmers shall be designed to operate the following ballasts. Dimmers and ballasts shall be produced by the same manufacturer to ensure proper ballast/control compatibility:
 - 1) Hi-lume[®] Architectural Dimming Ballasts (1% 3-wire)
 - 2) Hi-lume[®] Compact[™] Lamp Dimming Ballasts (5% 3-wire)
 - 3) Eco-10[™] Lighting Management Dimming Ballasts (10% 3-wire)
5. Switches:
- a. Switches shall provide on/off control of any 240/277 VAC load up to 16A.

- B. Wallplates Lutron Nova T[☆] Style
- 1. Wallplates shall be manufactured from durable polycarbonate plastic with matte finish, and shall attach to the basic components without using exposed hardware or screws.
 - 2. Multigang wallplates shall provide a continuous, seamless cover for control and/or accessory combinations with no exposed hardware or screws. Custom wallplate configurations shall be available.
 - 3. Multigang wallplates shall include snap in auto-align adapter plate for proper device alignment and wallplate attachment.
 - 4. Control, accessory and wallplate profiles shall not exceed 6mm (.30") from wall surface to faceplate front surface.
 - 5. To ensure a precise color match between all plastic parts, color variation of any matte finish control or wallplate shall not exceed delta E of 1, CIE L*a*b* color units.
 - 6. Visible parts of any control or any wallplate shall exhibit ultraviolet stability when tested with multiple actinic light sources as defined in ASTM D4674-89.

2.03 SOURCE QUALITY CONTROL

- A. All dimming controls shall be 100% function tested at the time of manufacture. Statistical sampling plan shall not be acceptable.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. Contractor shall furnish all devices (dimmers, switches and wallplate kits), labor and other services necessary for the proper installation of the devices as indicated on the drawings and specified herein.
- B. Contractor shall be responsible for derating dimmer capacity if side sections are removed.
- C. Contractor shall run separate neutral wires in 220/380 VAC installations.
- D. Devices shall be installed utilizing manufacturer's recommended application, wiring and installation instructions.
- E. Contractor to provide seamless wallplate covers per specification 2.02 for all devices ganged in a common box. Contractor shall provide barriers within the box where required by code.

3.02 FIELD QUALITY CONTROL

- A. Twenty-four hours a day, seven days a week, global customer service and technical hotline available.
- B. Supplemental information shall be provided by manufacturers Internet site.