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 commer cial applications
- Intuitive operation; easy to use
- · Slide-to-off and pr eset models available
- Enclosed heat sink for aesthetically pleasing appearance
- Multi-gang alignment for quick and easy installation
- Full family of products for most lighting sour ces, plus matching accessories and wallplates
- Rated at 120 V ~ 60 Hz, unless noted otherwise
- Custom products (CPN) ar e 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 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	Code	Color	Code	Color
WH	White	GR	Gray	BE	Beige
ТР	Taupe	IV	lvory	SI	Sienna
AL	Almond	LA	Light Almond	BR	Brown
BL	Black				

Special Order

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

Metal Finishes

Code	Color		Code	Color
SB	3 Satin Brass		BB	Bright Brass
BC	Bright Chrome			

Special Metal Finishes

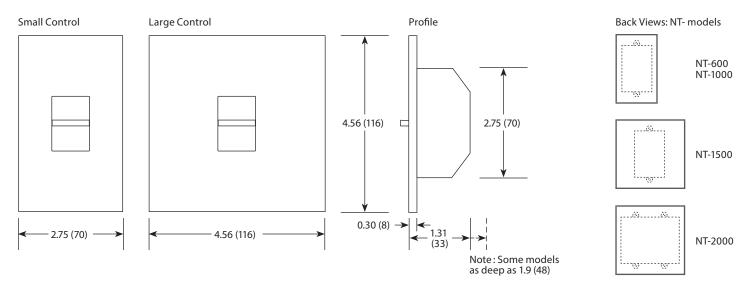
Code	Color		Code	Color
QB	Antique Brass		QZ	Antique Bronze
SC	Satin Chrome		SN	Satin Nickel
BN	Bright Nickel			

Anodized Aluminum Finishes

Code	Color	Code	Color	Code	Color
CLA	Clear	BLA	Black	BRA	Brass

Dimensions

Measurements shown as: in (mm)



Available Controls and Accessories

(Summary)

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

Preset Dimmers

Controls

Slide-to-Off Dimmers

|--|

Small

Control

Large

Control

Small Large Control Control

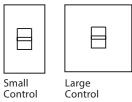
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Linear-Slide Switches

9	Small	

Small Control

Slide-to-Off Fan-Speed Controls



Control Specifications (continued)

Reverse-Phase Elect	ronic Low-Voltage (ELV) Dimmer: Slide-to-Off							
	Description	Maximum Capacity	Model Number					
Small Control	Dimmable LED /CFL; Single-pole 120 V ~ 60 Hz	250 W						
	Incandescent /Halogen Single-pole 120 V ~ 60 Hz	600 W	NTRP-250-XX					
	ELV with Halogen Single-pole 120 V ~ 60 Hz	600 W						
 When dimming LEDs or For recommended ELV tra www.lutron.com/Techn Not compatible with ma Dimmer is not compatible Minimum Load: 1 compared 	 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 E	lectronic Ballasts or LED Drivers: Slide-to-Off							
	Description	Maximum Capacity *	Model Number					
Small Control	Single-pole 0 –10 V- 120 – 277 V ~	Load 0-10 V - Sink	NTSTV-DV-XX					
		8 A 30 mA						
not exceed NEMA410 : manufacturer's specifi • Control has a high and	and drivers that provide a current source com standards for electronic ballast/driver loads of cation for 0 –10 V- sink currents. I low end trim to adjust the 0 –10 V- output rating is achieved first.	8 A steady-state current. Refer to LEE	hose inrush current does Odriver and ballast					
=) Fluorescent Dimme	rs for Tu-Wire Electronic Ballasts: Slide-to-Off							
	Description	Maximum Capacity	Model Number					
Small Control	Single-pole 120 V ~ 60 Hz	5 A	NTFTU-5A-XX					
	Single-pole 277 V ~ 60 Hz	5 A	NTFTU-5A-277-XX					
To determine the num current.	 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. 							
=D Fluorescent Dimme	rs for Advance 🔹 Mark X 🔹 VEZ series 277 V	~ Ballasts: Preset						
	Description	Maximum Capacity	Model Number					
Small Control	3-way 277 V ~ 60 Hz	3 A	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	r General Purpose: All Sources and Motor Load	s						
	Description	Maximum Capacity	Model Number					
Small Control	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					
No derating required.								

Single Units

Derating: Maximum Capacities in Multigang Installations*

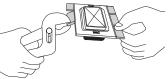
Middle Units

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.

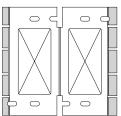
Mixing bulb types (using a combination of LED /CFL a nd incandescent/halogen bulbs) will also affect the maximum ratings, as shown in the charts below.

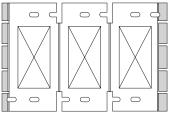
Example: If one set of side sections is removed and you have eight 9 W LED bulbs installed (Total LED Wattage = 72 W), you may add up to 500 W of incandescent or halogen lighting with the C•L control or 300 W with the Reverse-Phase control.

End Units



Do not remove outside sections (shaded areas below)





Each control has inside sections removed

Middle control has two side sections removed

Full capacity. No side sections removed	One side section removed	Two side sections removed		
Incandescent Controls		1		
600 W	500 W	300 W		
1000 W	900 W	700 W	1	
1500 W	1250 W	1000 W	1	
1950 W		_	1	
 NT-2000-XX controls (without removing sid) must be ganged		
C•L Controls				
O Maximum Allowable	Incandescent/Halo	+	Total LED /CF L 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	+	201 W – 250 W
 No derating is require 	ed for multigang inst	tallations if only LED bulbs	are	used or if no fins are broken.
Reverse-Phase Electron	ic Low-Voltage (ELV)) Controls		
G Maximum Allowable	Incandescent/Halo	gen Wattage	+	Total LED /CF L 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 require	d for multigang inst	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

Derating: Maximum Capacities in Multigang Installations*

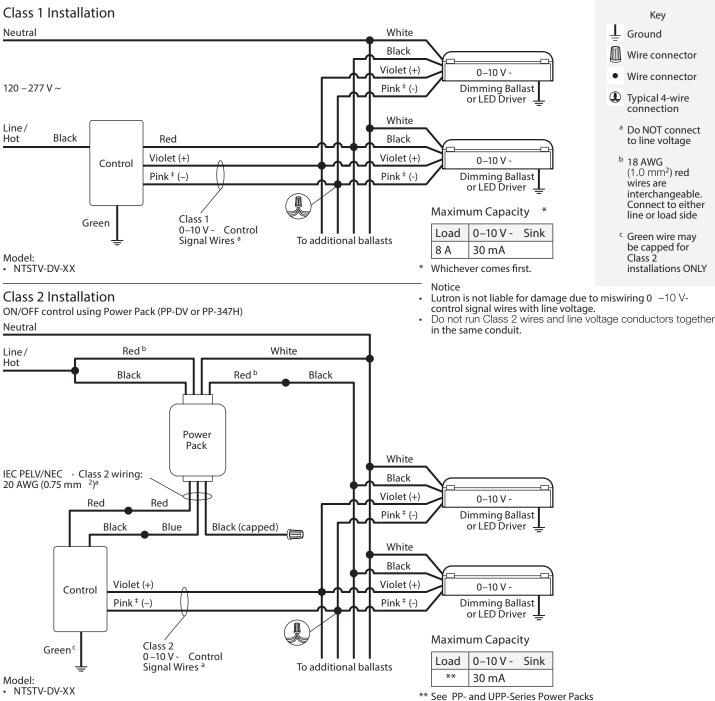
5		es in managang in				
Single Units Full capacity. No side sections removed	End Units One side section removed	Middle Units Two side sections removed				
Electronic Low-Voltage (ELV) Controls						
300 W	300 W	250 W				
600 W	500 W	400 W				
Permitted lamp watt	age for ELV controls.					
Magnetic Low-Voltage	(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 Ball	ast or LED Driver Co	ntrols				
6 A	No derating required					
8 A	No derating required					
16 A	No derating required					
Fluorescent Tu-Wire Co	ntrols					
3 A	No derating required					
5 A	4 A	3.3 A				
0–10 V - Electronic Ba	llast or LED Driver Co	ontrols				
Load 0–10 V - Sink	No dorating required					
8 A 30 mA	No derating required					
Quiet Fan-Speed Controls						
1.5 A	No derating require	derating required				
Fully Variable Fan-Speed Controls						
6 A	4.2 A	2.5 A				
12 A	10 A	8.3 A				

(continued)

 For more information on multigang installations, visit www.lutron.com/en-US/Service-Support/Pages/Technical/InstallationInstructions/Ganging-Derating/ GangingDerating.aspx

Wiring Diagrams: NTSTV- Controls

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



⁺ This wire/terminal may be gray on older products or in retrofit applications.

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