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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 \sim 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 \sim 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.

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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 \Rightarrow 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
TP	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	
SB	Satin Brass	
BC	Bright Chrome	

Code	Color
BB	Bright Brass

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

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Dimensions

Measurements shown as: in (mm)



Available Controls and Accessories (Summary)

Small

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

Controls

Slide-to-Off Dimmers

|--|

Large	

Control

Small Control

Preset Dimmers				

Large Control Control

Linear-S	Slic
Small	

de Switches

Control

Slide-to-Off Fan-Speed Controls



LUTRON SPECIFICATIO	Page	
Job Name:	Model Numbers:	
Job Number:		

Control Specifications

♀ Incandescent Dimm	ners: Slide-to-Off		
	Description	Maximum Capacity	Model Number
Small Control	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 \sim 60 Hz	1500 W	NT-1500-XX
	Single-pole 120 V \sim 60 Hz	1950 W	NT-2000-XX
The NT-2000-XX doesThe NT-2000-XX required	s not have removable side sections; it can be ires a 2-gang wallbox.	e ganged but must be kept intact.	
\bigcirc Incandescent Dimm	ners: Preset		
	Description	Maximum Capacity	Model Number
Small Control	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
 For 3-way or 4-way sv 	vitching, use NT-3PS-XX (3-way), NT-4PS-X>	(4-way), or other mechanical switc	hes.
C•L Dimmers: Slide-to	o-Off		
	Description	Maximum Capacity	Model Number
Small Control	Dimmable LED/CFL Single-pole 120 V \sim 60 Hz	250 W	NTCL-250-XX
	Incandescent/Halogen Single-pole 120 V \sim 60 Hz	1000 W	
	Hi-lume 1% 2-Wire LTE LED driver400 W (maximum of 10 driveSingle-pole 120 V60 Hz		
	Mixed bulb type Single-pole 120 V $\sim~60~{\rm Hz}$	See Derating: Maximum Capacities in Multigang Installations	
 For a complete list of r 1.844.LUTRON1. Some dimmable LEDs www.lutron.com/dimo For LED product select Features: Low-end adjustment t 	or CFLs, only bulbs marked or rated as dim recommended dimmable LEDs and CFLs p and CFLs require a minimum number of bu filed stion tool, visit www.lutron.com/ledtool o accommodate a wide range of bulbs. vanced Lutron dimming circuitry designed for	lease visit www.lutron.com/dimcflle	d. For questions call and the bulb list, visit
Flectronic Low-Volt	age (ELV) Dimmers: Slide-to-Off		
	Description	Maximum Capacity	Model Number
Small Control	Single-pole 120 V $\sim~$ 60 Hz	300 W	NTELV-300-XX
	Single-pole 120 V \sim 60 Hz	600 W	NTELV-600-XX
 Requires neutral wire For larger capacity EL interface. 	permitted lamp wattage. connection. V loads (up to 1000 W), use Nova T☆ fluores ncandescent/Halogen or 1 ELV transformer.		,

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Control Specifications (continued)

	Description	Maximum Capacity	Model Number
Small Control	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 Contro	bl Single-pole 120 V \sim 60 Hz	1500 VA / 1200 W	NTLV-1500-XX
Maximum capacity 277 V~ models rec	is permitted lamp wattage. Juire neutral wire connection.		
Magnetic Low-Vo	oltage (MLV) Dimmers: Preset		
	Description	Maximum Capacity	Model Number
Small Control	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
Large Contro	Single-pole/3-way/4-way 120 V \sim 60 Hz	1300 VA / 1200 VV	
	switching, use NT-3PS-XX (3-way), NT-4PS-X		
For 3-way or 4-way		(X (4-way), or other mechanica	al switches.
For 3-way or 4-way	switching, use NT-3PS-XX (3-way), NT-4PS-X	(X (4-way), or other mechanica	al switches.
For 3-way or 4-way	switching, use NT-3PS-XX (3-way), NT-4PS->	X (4-way), or other mechanica s or LED drivers: Slide-to-O	al switches.
For 3-way or 4-way □ Fluorescent Dim □ Small Control	switching, use NT-3PS-XX (3-way), NT-4PS-> mers for Lutron 3-wire fluorescent ballast Description Single-pole 120 V~ 60 Hz Single-pole 277 V~ 60 Hz	X (4-way), or other mechanica s or LED drivers: Slide-to-O Maximum Capacity	al switches. ff Model Number
For 3-way or 4-way Fluorescent Dim Small Control Use with Lutron 3-v For LED loads, plea No derating require To determine the nu current.	switching, use NT-3PS-XX (3-way), NT-4PS-> mers for Lutron 3-wire fluorescent ballast Description Single-pole 120 V~ 60 Hz Single-pole 277 V~ 60 Hz vire fluorescent ballasts or LED drivers only. se see the "Report Cards" at www.lutron.con d. umber of ballasts that can be controlled by No	 (X (4-way), or other mechanical s or LED drivers: Slide-to-Or Maximum Capacity 16 A 8 A n/ledtool for proper loading of ova T☆ fluorescent dimmer, div 	al switches. ff Model Number NTF-10-XX NTF-10-277-XX the dimmer.
For 3-way or 4-way Fluorescent Dim Small Control Use with Lutron 3-v For LED loads, plea No derating require To determine the nu current.	switching, use NT-3PS-XX (3-way), NT-4PS-> mers for Lutron 3-wire fluorescent ballast Description Single-pole 120 V~ 60 Hz Single-pole 277 V~ 60 Hz vire fluorescent ballasts or LED drivers only. se see the "Report Cards" at www.lutron.con d. umber of ballasts that can be controlled by Nor mers for Lutron 3-wire fluorescent ballast	 (X (4-way), or other mechanicals s or LED drivers: Slide-to-Or Maximum Capacity 16 A 8 A n/ledtool for proper loading of a Trat fluorescent dimmer, div s or LED Drivers: Preset 	al switches. ff Model Number NTF-10-XX NTF-10-277-XX the dimmer. vide the control capacity by the balla
For 3-way or 4-way Fluorescent Dim Small Control Use with Lutron 3-v For LED loads, plea No derating require To determine the nu current.	switching, use NT-3PS-XX (3-way), NT-4PS-> mers for Lutron 3-wire fluorescent ballast Description Single-pole 120 V~ 60 Hz Single-pole 277 V~ 60 Hz vire fluorescent ballasts or LED drivers only. se see the "Report Cards" at www.lutron.con d. umber of ballasts that can be controlled by No	 (X (4-way), or other mechanical s or LED drivers: Slide-to-Or Maximum Capacity 16 A 8 A n/ledtool for proper loading of ova T☆ fluorescent dimmer, div 	al switches. ff Model Number NTF-10-XX NTF-10-277-XX the dimmer.

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

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Control Specifications (continued)

6	Reverse-Phase Ele	ectronic Low-Voltage (ELV) Dimmer: Slide	e-to-Off		
		Description	Maximum Capacity	Model Number	
Small Control		Dimmable LED/CFL; Single-pole 120 V \sim 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		
 Wh For Wh No Din Min 	en dimming LEDs or recommended ELV tr ww.lutron.com/Techn compatible with ma nmer is not compatib	ce, use a bulb that is on the <u>Lutron LED Report</u> CFLs, only bulbs marked or rated as DIMMAE ransformers and compatible MR16 LED bulbs, pl icalDocumentLibrary/048559.pdf. Always follow gentic low-voltage (MLV) transformers or magr ble with bulbs rated only for forward-phase type batible CFL / LED bulb or 5 W Incandescent / H mendation.	BLE WITH REVERSE-PHASE OR UNIV ease see Lutron Application Note #559 the transformer and bulb manufacturer netic LED transformers/drivers e dimmers.	(ERSAL DIMMERS may be used. at instructions for allowable loading.	
0–10	V=== Dimmers for	Electronic 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	
		red for loads up to 8 A. May use Lutron pow	8 A 30 mA		
m • Co * Lii	anufacturer's specif ontrol has a high an mited by whichever	b) standards for electronic ballast/driver loads fication for 0–10 V sink currents. d low end trim to adjust the 0–10 V output rating is achieved first. hers for Tu-Wire Electronic Ballasts: Slide	t for optimal dimming performance.		
	1	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 Irrent.	ire line voltage control electronic dimming bander of ballasts that can be controlled by Nov ance® Mark X® and Sylvania Powersense® ba	va T☆ fluorescent dimmer, divide the		
=]]]	Fluorescent Dimm	hers for Advance $_{\ensuremath{\circledast}}$ Mark X $_{\ensuremath{\$}}$ VEZ series 277	$^{\prime}$ V \sim 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. 					
Line	ar-Slide Switches	for General Purpose: All Sources and Mo	otor Loads		
]	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	o derating required.				

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Control Specifications (continued)

Low-voltage Momentary Switch					
	Description	Maximum Capacity	Model Number		
Small Control	Up to 10 switches per power pack, 24 V==-/24 V $\sim~60~{\rm Hz}$	1 A	NTRCS-1-XX		
 For use with Lutron devices (power pack and wired occupancy sensors) only. No derating required. Not available in AL, LA, or SI. 					
💥 Fan-Speed Contr	ols: Quiet				
	Description	Maximum Capacity	Model Number		
Small Control	Single-pole, 3-speed 120 V~ 60 Hz	1.5 A	NTFSQ-XX		
For use with one ceilirNo derating required.	ng paddle fan.				
Fan-Speed Contro	ls: Fully Variable				
	Description	Maximum Capacity	Model Number		
Small Control	Single-pole, Adjustable minimum speed 120 V∼ 60 Hz	6 A	NTFS-6E-XX		
Large Control	Single-pole, Adjustable minimum speed 120 V~ 60 Hz		NTFS-12E-XX		
• For use with one or m	ore ceiling, ventilation, or exhaust fans. Do n	ot mix fan types on same control.	· · · · · · · · · · · · · · · · · · ·		

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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.

Single Units Full capacity. No side sections removed	End Units One side section removed	Middle Units Two side sections removed		
Incandescent Contro	ls			
600 W	500 W	300 W	1	
1000 W	900 W	700 W	1	
1500 W	1250 W	1000 W	1	
1950 W	_	_	1	
 NT-2000-XX controls without removing sid 		ity) must be ganged		
C•L Controls				
♀ Maximum Allowab	le Incandescent/Ha	alogen Wattage	+	(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 0	+	201 W – 250 W
 No derating is requir 	ed for multigang ins	tallations if only LED bulb	s ar	re used or if no fins are broken.
Reverse-Phase Elect	ronic Low-Voltage	(ELV) Controls		
♀ Maximum Allowab	le Incandescent/Ha	logen 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 requir	ed for multigang ins	tallations if only LED bulb	s ar	re 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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 \bigcirc

Each control has inside sections removed

Middle control has two side sections removed

Derating: Maximum Capacities in Multigang Installations* (continued)

5		J	
Single Units Full capacity. No side sections removed	End Units One side section removed	Middle Units Image: Boot State St	
Electronic Low-Volta	ge (ELV) Controls		
300 W	300 W 250 W		
600 W	500 W 400 W		
 Permitted lamp watt 	age for ELV controls	S.	
Magnetic Low-Voltag	e (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 watt 	age for MLV contro	ls.	
Fluorescent 3-Wire B	allast or LED Drive	er 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=== Electronic E	Ballast or LED Driv	er Controls	
Load 0–10 V=== Sink 8 A 30 mA	No derating required		
Quiet Fan-Speed Cor	ntrols		
1.5 A	No derating required		
Fully Variable Fan-Sp	eed 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

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Wiring Diagrams: Single Location









Single-Pole Control with Neutral



- NTELV-600-XX**
- NTLV-600-277-XXNTLV-1000-277-XX

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



NTFS-6E-XX

• NTFS-12E-XX

** Switched full-voltage only



NTFS-12E-XX

** Switched full-voltage only

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	•	

Wire connector ¹ Wire or brass/ gold screw terminal* ² Wire or green screw terminal*

Key

L Ground

 ³ Wire or copper/ black screw terminal*
 * Dimmers have

* Dimmers have wires; switches have screw terminals

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Wiring Diagrams: Multi-Location



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Wiring Diagrams: NTF- Controls



NTF-103P-XX

• NTF-103P-277-XX

*=======		
Job Name:	Model Numbers:	
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Wiring Diagrams: NTFTU- Controls



 Job Name:
 Model Numbers:

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 AWG (0.75 mm²).
- 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 required (local code may apply).
- For application with excessive electrical noise, 0–10 V=== wires should be run in separate conduit from the mains.



Wiring Diagrams: NTCL- Controls





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