LED Dimming Driver Hi-lume® A-Series Constant Voltage Driver (UL Listed) Architectural Dimming

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UL Listed Hi-lume_® A-Series **Constant Voltage Driver Overview**

The UL Listed Hi-lume® A-Series Constant Voltage Driver is a high-performance LED driver that provides smooth, continuous 1% dimming for 12 V=== and 24 V--- constant voltage LED sources up to 40 W. The UL listing ensures a safe and reliable installation because the driver is pre-packaged with its own specialized wiring and mounting enclosure.

Features

- UL Listed for United States and Canada
- Continuous, flicker-free dimming from 100% to 1%
- 4 in (102 mm) square, metal junction box included to provide a UL Listed wiring compartment
- Guaranteed compatibility with these Lutron® systems:
 - All EcoSystem_® compatible products
 - GRAFIK Systems
 - HomeWorks_® QS
 - Maestro Wireless
 - Quantum®
 - RadioRA_® 2

- Select wallbox products
- Lutron® wallbox 3-Wire fluorescent controls and interfaces

For a complete list of controls, see charts in the Wiring section:

- LTE models (pages 5 and 6)
- L3D models (pages 7-9)

Note: L3D models for commercial spaces only.



Hi-lume_® A-Series Driver Model LTEA4U1UKL-AV120

- 100% performance-tested at factory
- Protected from miswires of input power to EcoSystem_® control inputs
- A rated lifetime of 50,000 hours @ $t_c = 65 \text{ °C}$
- FCC Part 15 compliant for commercial and residential applications at 120 V \sim (LTE models only)
- FCC Part 15 compliant for commercial applications at 120 V \sim and 277 V \sim (L3D models only)

Page

- RoHS Compliant
- For more information please go to: www.lutron.com/Hilumel FD

LUTRON SPECIFICATION SUBMITTAL

		0 -
Job Name:	Model Numbers:	
Job Number:		

369789b 2 04.29.2014

Specifications

Performance

- Dimming Range: 100% to 1%
- Operating Voltage
 - LTE models: 120 V \sim at 50/60 Hz
 - − L3D models: 120−277 V~ at 50/60 Hz (for commercial space only)
- Output: 12 V---- and 24 V--- constant voltage Note: Not intended for use with MR-16 lamps
- Output: 5-40 W
- A rated lifetime of 50,000 hours @ $t_c = 65 \text{ °C}$
- Patented thermal foldback protection
- LEDs turn on to any dimmed level without going to full brightness
- Nonvolatile memory restores all driver settings after power failure
- Power Factor: >0.90 for loads greater than 20 W
- Total Harmonic Distortion (THD): <20% for loads greater than 20 W
- Inrush Current: <2 A
- Inrush Current Limiting Circuitry: eliminates circuit breaker tripping, switch arcing and relay failure
- Output is open-circuit protected
- Output is short-circuit protected
- Turn-on time: ≤1 second
- PWM Dimming Frequency: 550 Hz

Environmental

- Sound Rating: Inaudible in 27 dB ambient
- Relative Humidity: Maximum 90% non-condensing
- Operating ambient temperature
- $t_a = 32 104 \text{ °F} (0 40 \text{ °C})$

Regulatory Approvals

- Meets ANSI C62.41 category A surge protection standards up to and including 4 kV
- FCC Part 15 compliant for commercial and residential applications at 120 V \sim (LTE models only)
- FCC Part 15 compliant for commercial applications at 120 V~ and 277 V~ (L3D models only)
- Manufacturing facilities employ ESD reduction practices that comply with the requirements of ANSI/ESD S20.20
- Lutron_® Quality Systems registered to ISO 9001.2008
- UL 8750-listed
- Class 2 output

Driver Wiring and Mounting

- Driver is grounded by green ground wire connection on the enclosure or by ground lug terminal in the junction box
- Driver and junction box must be grounded in accordance with local and national electrical codes
- All wire connections must be made in the junction box to maintain UL listing
- 4 in (102 mm) square junction box is 1.5 in (38 mm) deep with a 22.0 cubic in (360.5 cubic cm) capacity and complies with NEMA_® OS 1-2008 Figure 112
- Driver is pre-wired with 6 in (152 mm), 18 AWG (0.75 mm²) solid copper leads in all terminal blocks
- For 277~ V applications, a suitable barrier should be installed between the input and Class 2 wiring per local and national electrical wiring codes
- Maximum driver-to-LED light engine wire length for Constant Voltage Drivers:

Page

Mire Course	Maximum Lead Length		
wire Gauge	12 V	24 V	
18 AWG (0.75 mm ²)	10 ft (3 m)	15 ft (4.5 m)	
16 AWG (1.5 mm ²)	15 ft (4.5 m)	25 ft (7.5 m)	
14 AWG (2.5 mm ²)	25 ft (7.5 m)	40 ft (12 m)	
12 AWG (4.0 mm ²)	40 ft (12 m)	60 ft (18 m)	

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Job Name:	Model Numbers:	
Job Number:		

369789b 3 04.29.2014

Models Available

		Model ¹	Input Voltage (V~)	Input Current (mA)	Power Factor ²	Output Power (W)	Output Voltage (V===)
2-Wire	For 24 V=== Constant Voltage LED Loads	LTE A4U1UKL-CV240	120	380	0.99	5-40	24.0
Control ³	For 12 V=== Constant Voltage LED Loads	LTE A4U1UKL-AV120	120	400	0.98	5-40	12.0
For 24 V			120	370	0.99	5-40	24.0
3-Wire or EcoSystem _® Control ^{4,5}	LED Loads	L3D A4010KL-CV240	277	170	0.96	5-40	24.0
	For 12 V=== Constant Voltage LED Loads		120	390	0.99	5-40	12.0
		LSD A4010KL-AV120	277	170	0.95	5-40	12.0

Note for OEMs: Other models available; refer to UL Listed LED Driver Specification Submittals for more details: Lutron® P/N 369767 and P/N 369768.

¹ Not intended for use with MR-16 lamps.

² At max. output power.

 $^{\rm 3}~$ For wiring options, see Wiring section, pages 5 and 6.

⁴ For wiring options, see *Wiring* section, pages 7-9.

⁵ For commercial application only.

LUTRON SPECIFICATION SUBMITTAL

LUTRON SPECIFICATION SUBMITTAL		Page
Job Name:	Model Numbers:	
Job Number:		

KL Enclosure Dimensions

369789b 4 04.29.2014





KL enclosure includes a 4 in (102 mm) square junction box which complies with NEMA® OS 1-2008 Figure 112.

Knockouts

- Sides
 - 8 locations: 0.5 in (13 mm)
 - 4 locations: 0.5/0.75 in (13/19 mm)
- Bottom
 - 2 locations: 0.5 in (13 mm)
 - 2 locations: 0.5/0.75 in (13/19 mm)

WEDTRON ® SPECIFICATION SUBMITTAL		Page
Job Name:	Model Numbers:	
Job Number:		

LED Dimming Driver Hi-lume® A-Series Constant Voltage Driver (UL Listed) Architectural Dimming

369789b 5 04.29.2014

Wiring

LTE 2-Wire Forward Phase Models: Controls Requiring Neutral

Note: Driver is pre-wired with 6 in (152 mm) solid copper leads of 18 AWG (0.75 mm²) in all terminal blocks. Colors shown correspond to wires on driver.

Wiring Diagram



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.

² For maximum driver-to-LED light engine wire length, see charts in *Driver Wiring and Mounting* section.

Compatible Controls: Lutron® Neutral-Wire Dimmers

Guaranteed performance specifications with the controls listed in the chart below.

For assistance selecting controls, contact our LED Center of Excellence at 1.877.346.5338 or LEDs@lutron.com

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Broduct	Dout Number	Low End Catting/Load Type Cattings	Drivers per Control		
Product	Part Number	Low-End Setting/Load-Type Setting	A: Not Ganged	B: End of Gang	C: Middle of Gang
Maestro Wireless® dimmer	MRF2-6ND-120-	Trim low-end per Advanced Programming Mode App Note (Lutron₀ P/N 048370)	1-8	1-8	1-8
RadioRA® 2 adaptive dimmer	RRD-6NA-	Hi-lume® A-Series LTE LED Driver 2-Wire	1-8	1-8	1-8
HomeWorks® QS adaptive dimmer	HQRD-6NA-	LED Lutron _® A-Series 2-Wire	1-8	1-8	1–8
HomeWorks® QS 600 W dimmer	HQRD-6ND-	LED Lutron® A-Series 2-Wire	1-8	1-8	1-8
Stanza® dimmer	SZ-6ND-	Trim low-end per Dimmer Installation Guide	1–8	1–8	1–8
RadioRA⊚ 2 1000 W dimmer	RRD-10ND-	Set Device type to "INC/MLV Neutral Dimmer"; Set High-End Trim to 99%; Set Low-End Trim to 35%	1-13	1-13	1–13
HomeWorks® QS 1000 W dimmer	HQRD-10ND-	LED Lutron® A-Series 2-Wire	1–13	1–13	1–13

Setting the low-end trim and load type is necessary to ensure optimal performance and 1% dimming capability. Note: For information about Legacy Product use in existing control application, contact LEDs@lutron.com

CITRON, SPECIFICATION SUBMITTAL

LUTRON ® SPECIFICATIO	N SUBMITTAL	Page
Job Name:	Model Numbers:	
Job Number:		

LED Dimming Driver Hi-lume® A-Series Constant Voltage Driver (UL Listed) Architectural Dimming

369789b 6 04.29.2014

Page

Wiring (continued)

LTE 2-Wire Forward Phase Models: Controls Requiring Neutral (continued)

Note: Driver is pre-wired with 6 in (152 mm) solid copper leads of 18 AWG (0.75 mm²) in all terminal blocks. Colors shown correspond to wires on driver.

Wiring Diagram



¹ 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.

² For maximum driver-to-LED light engine wire length, see charts in *Driver Wiring and Mounting* section.

Compatible Controls: Lutron® Dimming Modules/Panels

Guaranteed performance specifications with the controls listed in the chart below.

For assistance selecting controls, contact our LED Center of Excellence at 1.877.346.5338 or LEDs@lutron.com

Product	Part Number	Drivers per Control	Low-End Setting/Load-Type Setting*
HomeWorks® QS wallbox power module	HQRJ-WPM-6D-120-	1–10 (per output); 26 total per module	LED Lutron _® A-Series 2-Wire
GRAFIK Eye₀ QS control unit	QSGR-, QSGRJ-	1–10 (per output); 26 total per unit	Set load type to "Fluorescent Module"
GRAFIK Eye₀ 3000 control unit	GRX-3100-, GRX-3500-	1–10 (per output); 26 total per unit	Set load type to "GRX-FDBI or GRX-TVI"
RPM-4U module (LCP, HomeWorks® QS,	HW-RPM-4U-120,	1–26 (per output);	LED Lutron® A-Series 2-Wire
GRAFIK Systems™, Quantum®)	LP-RPM-4U-120	26 total per module	Set load type to "2-1"
RPM-4A module (LCP, HomeWorks® QS,	HW-RPM-4A-120,	1–13 (per output);	LED Lutron _® A-Series 2-Wire
GRAFIK Systems™, Quantum®)	'stems™, Quantum®) LP-RPM-4A-120 26 total per module		Set load type to "2-1"
GP dimming panels	Various	1-26	Set load type to "2-1"

* Setting the low-end trim and load type is necessary to ensure optimal performance and 1% dimming capability.

		9-
Job Name:	Model Numbers:	
Job Number		
Job Number:		

LED Dimming Driver Hi-lume® A-Series Constant Voltage Driver (UL Listed) Architectural Dimming

369789b 7 04.29.2014

Page

Wiring (continued)

L3D Models: 3-Wire Controls (Third wire required for control signal)

Note: Driver is pre-wired with 6 in (152 mm) solid copper leads of 18 AWG (0.75 mm²) in all terminal blocks. Colors shown correspond to wires on driver.

Wiring Diagram



- ¹ Purple wires must be capped off separately if dimmed hot (orange) is being used.
- ² For 277 V~ control applications, the 277 V~ wiring and Class 2 wiring should be separated by a barrier in accordance with local and national electrical codes.
- ³ 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.
- ⁴ For maximum driver-to-LED light engine wire length, see charts in *Driver Wiring and Mounting* section.

Compatible Controls: Lutron® 3-Wire Dimmers

Guaranteed performance specifications with the controls listed in the chart below.

For assistance selecting controls, contact our LED Center of Excellence at 1.877.346.5338 or LEDs@lutron.com

Dreduct	Part	Number	Drivers per Control*	
Product	120 V \sim	$_{ m 277~V}{\sim}$	120 V \sim	277 V \sim
Nove The dimmor	NTF-10-	NTF-10-277-	1-41	1-44
	NTF-103P-	NTF-103P-277-	1-20	1-33
Nove dimmor	NF-10-	NF-10-277-	1-41	1-44
Nova® dimmer	NF-103P-	NF-103P-277-	1-20	1-33
Skylark _® dimmer	SF-10P-	SF-12P-277-	1-20	1–33
	SF-103P-	SF-12P-277-3-	1-20	1-33
Dive dimmer	DVF-103P-	DVF-103P-277-	1-20	1-33
Diva® dimmer	DVSCF-103P-	DVSCF-103P-277-	1-20	1-33
Lyneo _® Lx dimmer	LXF-103PL-	LXF-103PL-277-	1-20	1-20
Ariadni _® dimmer	AYF-103P-	AYF-103P-277-	1-20	1-44

No derating required in multi-gang applications provided that driver count does not exceed quantity listed. Note: For information about Legacy Product use in existing control application, contact LEDs@lutron.com

		- 5 -
Job Name:	Model Numbers:	
Job Number		
JOD Number:		

LED Dimming Driver Hi-lume® A-Series Constant Voltage Driver (UL Listed) Architectural Dimming

369789b 8 04.29.2014

Page

Wiring (continued)

L3D Models: 3-Wire Controls (Third wire required for control signal) (continued)

Note: Driver is pre-wired with 6 in (152 mm) solid copper leads of 18 AWG (0.75 mm²) in all terminal blocks. Colors shown correspond to wires on driver.

Wiring Diagram



- ¹ Purple wires must be capped off separately if dimmed hot (orange) is being used.
- ² For 277 V~ control applications, the 277 V~ wiring and Class 2 wiring should be separated by a barrier in accordance with local and national electrical codes.
- ³ 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.
- ⁴ For maximum driver-to-LED light engine wire length, see charts in *Driver Wiring and Mounting* section.

Compatible Controls: Lutron® 3-Wire Dimmers, Modules, and Panels

Guaranteed performance specifications with the controls listed in the chart below.

For assistance selecting controls, contact our LED Center of Excellence at 1.877.346.5338 or LEDs@lutron.com

Draduat	Part Number		Drivers per Control*	
Product	120 V \sim	277 V \sim	120 V \sim	277 V \sim
Vierti _® dimmer	VT	F-6A-	1–15	1–33
Maaatra dimmar	MAF-6AM-	MAF-6AM-277-	1–15	1–33
Maestro® dimmer	MSCF-6AM-	MSCF-6AM-277-	1–15	1–33
Maestro Wireless® dimmer	MRF2-F6AN-DV-		1–15	1–33
RadioRA _® 2 dimmer	RRD-F6AN-DV-		1–15	1–33
HomeWorks® QS dimmer	HQRD-F6AN-DV-		1–15	1–33
Interfaces	PHPM-3F-120		1-41	_
			1-41	1-88
GP dimming panels	Various		1-41	1–88

* No derating required in multi-gang applications provided that fixture-count does not exceed quantity listed.

[†] For use with 3-Wire controls, Commercial Systems applications, RadioRA_® 2 Systems, or other Home Systems applications. Note: For information about Legacy Product use in existing control application, contact LEDs@lutron.com

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Job Name:	Model Numbers:	
Job Number:		

369789b 9 04.29.2014

Page

Wiring (continued)

L3D Models: EcoSystem® Digital Controls

Note: Driver is pre-wired with 6 in (152 mm) solid copper leads of 18 AWG (0.75 mm²) in all terminal blocks. Colors shown correspond to wires on driver.

Wiring Diagram



- ¹ For 277 V~ control applications, the 277~ V wiring and Class 2 wiring should be separated by a barrier in accordance with local and national electric codes.
- ² Dimmed hot (orange) wire must be capped off separately if EcoSystem® control is used.
- ³ Enclosure 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.
- ⁴ For maximum driver-to-LED light engine wire length, see charts in **Driver Wiring and Mounting** section.

Compatible Controls: Lutron® EcoSystem® Digital Controls

Guaranteed performance specifications with the controls listed in the chart below.

For assistance selecting controls, contact our LED Center of Excellence at 1.877.346.5338 or LEDs@lutron.com

Draduat	Part Number		Drivere per Control	
Floduct	120 V \sim	277 V \sim	Drivers per Control	
PowPak® Dimming Module with EcoSystem®	RMJ-ECC)32-DV-B	32 per EcoSystem® link	
Energi Savr Node™ with EcoSystem⊛ unit	QSN-11 QSN-2	ECO-S, ECO-S	64 per EcoSystem _® link	
GRAFIK Eye® QS with EcoSystem® unit	QSGRJ-, QSGR-	—	64 per EcoSystem _® link	
Quantum _® Light Management Hub	QP2-, QP3-, QP4-	_	64 per EcoSystem _® link	
Homeworks® QS DIN Rail Power Module with EcoSystem®	LQSE-2ECO-D	_	64 per EcoSystem® link	

LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:	
Job Number:		

Architectural Dimming

369789b 10 04 29 2014

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EcoSystem_® Digital Link (L3D Models only)

Overview

- The EcoSystem_® Digital Link wiring (E1 and E2) connects digital ballasts and drivers together to form a lighting control system
- Sensors do not directly connect to Hi-Lume_® A-Series LED drivers
- E1 and E2 (EcoSystem_® digital link wires) are polarity-insensitive and can be wired in any topology
- An Energi Savr Node™ with EcoSystem® unit, GRAFIK Eye® QS with EcoSystem® control unit, PowPak® dimming module with EcoSystem®, or Quantum® system provides power for the EcoSystem® Digital Link and supports system programming*
- All EcoSystem® Digital Link programming is completed by using the Energi Savr App for Apple iPad, iPod Touch, or iPhone mobile digital devices, GRAFIK Eye® QS with EcoSystem® control unit, PowPak® dimming module with EcoSystem®, or Quantum® system

Wiring

- Driver EcoSystem_® Digital Link terminals accept only one 18 to 16 AWG (0.75 to 1.5 mm²) solid copper wire per terminal
- Make sure that the supply breaker to the Digital Driver and EcoSystem_® Digital Link Supply is OFF when wiring
- Connect the two conductors to the two Digital Driver terminals E1 and E2 as shown
- Using two different colors for E1 and E2 will reduce confusion when wiring several drivers together
- The EcoSystem® Digital Link may be wired Class 1 or Class 2. Consult applicable electrical codes for proper wiring practices



To the EcoSystem® Digital Bus and additional drivers and/or ballasts

Notes

- The EcoSystem_® Digital Link Supply does not have to be located at the end of the Digital Link
- EcoSystem_® Digital Link length is limited by the wire gauge used for E1 and E2 as follows:

Wire Gauge	Digital Link Length (max)
12 AWG	2200 ft
14 AWG	1400 ft
16 AWG	900 ft
18 AWG	550 ft
Wire Size	Digital Link Length (max)
4.0 mm ²	Digital Link Length (max) 825 m
Wire Size 4.0 mm ² 2.5 mm ²	Digital Link Length (max) 825 m 515 m
Wire Size 4.0 mm² 2.5 mm² 1.5 mm²	Digital Link Length (max) 825 m 515 m 310 m
Wire Size 4.0 mm² 2.5 mm² 1.5 mm² 1.0 mm²	Digital Link Length (max) 825 m 515 m 310 m 205 m

PowPake dimming module with EcoSysteme provides power for the EcoSysteme Digital Link and can support 32 digital ballasts, LED drivers, or EcoSysteme Modules, 6 Wireless Occupancy Sensors, 1 Wireless Daylight Sensor, and 9 Picoe Wireless Controllers.

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Job Name:	Model Numbers:	
Job Number:		

369789b 11 04.29.2014

Electricians and Contractors

Driver Leads

Maximum driver-to-LED light engine wire length for **Constant Voltage Drivers:**

Wire Course	Maximum Lead Length		
wire Gauge	12 V	24 V	
18 AWG (0.75 mm ²)	10 ft (3 m)	15 ft (4.5 m)	
16 AWG (1.5 mm ²)	15 ft (4.5 m)	25 ft (7.5 m)	
14 AWG (2.5 mm ²)	25 ft (7.5 m)	40 ft (12 m)	
12 AWG (4.0 mm ²)	40 ft (12 m)	60 ft (18 m)	

Wiring and Grounding

Driver and junction box must be grounded.

Drivers and junction box must be installed per national and local electrical codes.

LED Load Replacement

Because these are Class 2 rated drivers, the LED load can be changed while the driver is installed and powered.

Maximum Driver Operating Temperature

For 50,000 hour lifetime, enclosure temperature (t_c) must not exceed 65 °C.

Facilities Managers

Service

Warranty

For warranty information, please visit http://www.lutron.com/BallastDriverWarranty

Replacement Parts

When ordering Lutron® replacement parts, please provide the full model number. Consult Lutron Technical Support if you have any questions.

Further Information

For further information, please visit us at www.lutron.com/hilumeLED or contact our LED Control Center of Excellence at 1.877.346.5338 or LEDs@lutron.com

STRON SPECIFICATION SUBMITTAL

LUTRON SPECIFICATION SUBMITTAL		Page
Job Name:	Model Numbers:	
Job Number:		

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Maestro Sensors

Lutron's Maestro Dimmer and Switch with occupancy and vacancy sensors are lighting controls with passive infrared sensors that automatically control the lights in an area. These sensors detect the heat from occupants moving within an area to determine when the space is occupied.

The Dimmer with Sensor combines a Maestro 600 W incandescent/halogen dimmer with an occupancy or vacancy sensor.

The Switch with Sensor combines a Maestro switch with an occupancy or vacancy sensor.

Family Features

- Passive infrared motion detection with exclusive Lutron XCT™ Technology for fine motion detection
- 180° sensor field-of-view
- Up to 30 ft x 30 ft (900 ft²) major motion coverage and 20 ft x 20 ft (400 ft²) minor motion coverage
- Occupancy/vacancy version can be set to auto-on/auto-off or manual-on/auto-off
- Vacancy version available to meet CA title 24 requirements

Dimmer with sensor:



Model Number *	Description	Sensor Operation	Maximum Capacity
UMS-OP600M-XX	Occupancy/vacancy single-pole/multi-location	Auto-on/auto-off or manual-on/auto-off	600 W incandescent/ halogen
UMS-VP600M-XX	Vacancy single-pole/ multi-location	Manual-on/auto-off	600 W incandescent/ halogen

- Adjustable timeout 1, 3, 5, 15, or 30 minutes
- Optional off warning dims the lights by 50%, 30 seconds before the light turns off
- High-low sensitivity adjustment
- Standard Maestro dimmer features: locked preset, fade-to-on, and fade-to-off
- Works with up to 9 companion dimmers (UMA-R-XX) *

Switch with sensor:

Model Number *	Description	Sensor Operation	Maximum Capacity
UMS-OPS5AM-XX	Occupancy/vacancy single- pole/multi-location 120 V~; neutral wire required	Auto-on/auto-off or manual-on/ auto-off	5 A lighting
UMS-VPS5AM-XX	Vacancy single-pole/multi- location 120 V~; neutral wire required	Manual-on/auto- off	5 A lighting
UMS-OPS6M-DV-XX	Occupancy/vacancy single- pole/multi-location 120-277 V~ spec grade electronic switch; no neutral wire required	Auto-on/auto-off or manual-on/ auto-off	6 A lighting 3 A Fan (120 V \sim only)
UMS-VPS6M-DV-XX	Vacancy single-pole/multi- location 120-277 V \sim spec grade electronic switch; no neutral wire required	Manual-on/auto- off	6 A lighting 3 A Fan (120 V \sim only)

• Adjustable timeout - 1, 5, 15, or 30 minutes

- High-low sensitivity adjustment
- Switch lighting loads: incandescent, halogen, MLV, ELV, and non-dim fluorescent
- Works with up to 9 companion switches (UMA-AS-XX* or UMA-AS-277-XX*)
- * XX in model number represents color/finish code

ITEM SPECIFICATION SUBMITTAL

LUIRON , SPECIFICATIO	N SUBMITTAL	Page
Job Name:	Model Numbers:	
Job Number:		

369-462a 2 05.31.11

Colors and Finishes

Gloss Finishes



Due to printing limitations, colors and finishes shown cannot be guaranteed to perfectly match actual product colors.

SUTRON SPECIFICATION SUBMITTAL

LUTRON SPECIFICATIC	N SUBMITTAL	Page
Job Name:	Model Numbers:	
Lab. Nousebau		

369-462a 3 05.31.11

Load Type and Capacity

Control	Voltage	Load	Minimum Maximum Load			Neutral	
		Туре	Load	Not Ganged	End of Gang	Middle of Gang	Connection Required
UMS-OP600M UMS-VP600M	120 V~	Incand.1	40 W	600 W	500 W	400 W	NO
UMS-OPS5AM UMS-VPS5AM	120 V~	Lighting ²	5 W	5 A	4 A	3.2 A	YES
UMS-OPS6M-DV UMS-VPS6M-DV	120 - 277 V∼	Lighting ²	25 W	6 A	6 A	6 A	NO
	120 V~	Fan	0.4 A	3 A	3 A	3 A	NO

1 Dimmer Load Type: designed for use with permanently installed incandescent or tungsten halogen only. Do not install dimmers to control receptacles or motor-operated appliances.

2 Switch Load Type: designed for use with permanently installed lighting loads.

LUTRON SPECIFICATION SUBMITTAL

Page Job Name: Model Numbers: Job Number:

369-462a 4 05.31.11

Specifications

Regulatory Approvals

• UL Listed and CUL Listed.

Power

Operating voltage:

120 V∼ 60 Hz

120-277 V~ 50/60 Hz (-OPS6M-DV and -VPS6M-DV) * dimmer only

Key Design Features

Dimmer

- On a single-tap, lights fade ON or OFF.
- On a double-tap, lights go to full ON.
- When ON, press and hold to engage up to 60-second fade to OFF.
- Light levels can be fine-tuned by pressing and holding the dimming rocker until the desired light level is reached.

Switch

- On a single-tap, lights turn ON or OFF.
- Two-wire switches available.

Environment

• Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C), 0%-90% humidity, non-condensing. Indoor use only.

Warranty

1 Year Limited Warranty.

Timeout Options

- 1 Minute
- 3 Minutes*
- 5 Minutes
- 15 Minutes
- 30 Minutes

Sensitivity Options

- High sensitivity
- Low sensitivity

Auto-On Options (occupancy/vacancy version)

- "Enabled" Auto-On
- "Disabled" Manual-On

Ambient Light Detection Options (-OPS6M-DV):

- Disabled: Lights turn on regardless of light level in the room.
- Enabled with High Light Level: Prevents lights from turning on automatically when there is a high amount of ambient light.
- Enabled with Medium Light Level: Prevents lights from turning on automatically when there is a medium amount of ambient light.
- Enabled with Low Light Level: Prevents lights from turning on automatically when there is a low amount of ambient light.

Off While Occupied (-OPS6M-DV only)

- When Switch is manually turned off, the Sensor will not turn the lights back on automatically while the room is occupied.
- The Auto-on feature returns to normal operation after the timeout duration has expired.
- When this feature is disabled, after being manually turned off, the Auto-on feature will return to normal operation after 25 seconds.

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Job Name:	Model Numbers:	
Job Number:		

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Range Diagrams





Sensor Placement and Operation

- The Sensor's ability to detect motion requires line-of-sight of room occupants. The Sensor must have an unobstructed view of the room.
- Hot objects and moving air currents can affect the Sensor's performance.
- The Sensor's performance depends on a temperature differential between the ambient room temperature and that of room occupants. Warmer rooms may reduce the Sensor's ability to detect occupants.

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