PROJECT: NOTES:



Customer Care (714) 312-5080 customercare@magnitudeinc.com

120-277V

24VDC

CLASS 2

SELV

DIM

# JB Series | VersaDrive 0-10V Wireless Node Ready

**Specification Sheet** 

Up to 672 Watts, Multi-Channel, Constant Voltage LED Drivers with 0-10V Dimming and Aux Out

### **Key Features**

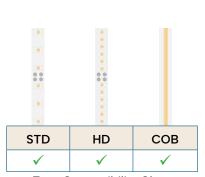
- Lutron Athena AWN sensors factory installed or field installed.
- Also compatible with other auxiliary powered wireless nodes.
- 22VDC Aux Output (powers accessories that operate between 12VDC and 24VDC)
- PWM Output for consistent performance with different types of LED tape and flicker-free dimming down to 1%
- · Drivers installed & pre-wired, saving time in the field
- Reduces installation time & provides easy maintenance access
- · Covered & ventilated enclosures
- Recessed mountable fits between standard wall studs
- Assembly is UL 2108 Listed, Class 2, CSA C22.2 No. 250.2

#### **Specification Overview**

- 0-10V Dimming
- Multi-Channel output (96W per Channel)
- All drivers are home runs to line voltage compartment
- Universal input voltage 120 to 277VAC
- Class 2, Constant Voltage 24VDC output
- Multiple 1-1/8" (3/4" trade size) knockouts and seven 0.87" (1/2" trade size) knockouts on cover
- 5-year warranty







Tape Compatibility Chart

ENCLOSURE DETAILS						
Dimensions	Material	Finish	Environmental			
Single Box (2-3CH): 14.0"W x 16.9"H x 4.2"D (357 x 429 x 107mm)	Stamped Steel	Powder Coat	Dry Location			
Double Box (4-7CH): 14.0"W x 33.7"H x 4.2"D (357 x 856 x 107mm)	Stamped Steel	Powder Coat	Dry Location			

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# JB-Series | VersaDrive 0-10V Wireless Node Ready Specification Sheet

## **ORDERING INFORMATION**

JB-Series   VersaDrive 0-10V • Lutron Athena Wireless Node						
Model Channels		Driver	# of AWN*			
JBWR				VA01096R24DC		
JBWR	Wireless Ready	2	2-Channel	VersaDrive 0-10V Dimmable	-AWN1	1 pre-wired AWN sensor
		3	3-Channel	with 22VDC Aux Out, 96W, 120V-277V input	-AWN2	2 pre-wired AWN sensors
		4	4-Channel	24VDC output	-AWN3	3 pre-wired AWN sensors
		5	5-Channel	Driver meets Lutron AWN	-AWN4	4 pre-wired AWN sensors
		6	6-Channel	requirements:	-AWN5	5 pre-wired AWN sensors
		7	7-Channel	120-277VAC input	-AWN6	6 pre-wired AWN sensors
0-10V Dimming meets ASNI 137.1C for electronic off		-AWN7	7 pre-wired AWN sensors			

<sup>\*</sup> When ordering, include layout of driver channels and Athena Wireless Node zones

JB-Series   VersaDrive 0-10V • Wireless Node Ready						
Use for	Use for field installation of Lutron AWN sensors or other wireless nodes					
Model Chann		Channels	Driver			
	JBWR			VA01096R24DC		
JBWR	JB Wireless Ready	2	2-Channel	VersaDrive 0-10V Dimmable with 22VDC Aux Out,		
		3	3-Channel	96W, 120V-277V input, 24VDC output		
		4	4-Channel	Driver meets Lutron AWN requirements:		
		5	5-Channel	120-277VAC input 0-10V Dimming meets ASNI 137.1C for electronic off		
		6	6-Channel	0-10 V Diffilling meets ASNI 137.1C for electronic off		
		7	7-Channel			



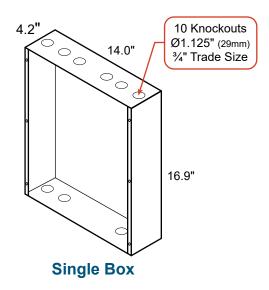
# JB-Series | VersaDrive 0-10V Wireless Node Ready Specification Sheet

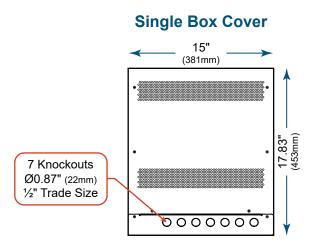
## **SPECIFICATIONS**

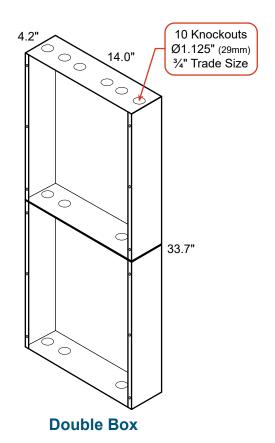
Input Voltage Range Input Voltage Range Input Frequency Input Current Input Terminal Wire Gauge Range Input Terminal Wire Gauge Range Output (Per Channel) Output Voltage Max Load Output Current @ Maximum Load A.OA Output Dimming Method Output Terminal Wire Gauge Range Input Terminal Wire Gauge Range Input Current @ Maximum Load Input Current @ Input Current Linear Input Current @ Input Current Linear Input Current Compliance Input Onlov Ansi Cla7.1 Input Current Limit Input In	Input	
Input Frequency Input Current Input Terminal Wire Gauge Range Input Terminal Wire Gauge Range Input Terminal Wire Gauge Range Input Current Input Terminal Wire Gauge Range Input Voltage Input Voltage Input Voltage Input Current @ Maximum Load Input Dimming Method Input Input Input Voltage Input	•	100 to 277\/00 ± 10%
Input Current  Efficiency  B4% @120V, 0.51A @ 277V  Efficiency  Power Factor  > 0.94 @ Max Load  Input Terminal Wire Gauge Range  Output (Per Channel)  Output Voltage  Max Load  Output Current @ Maximum Load  Output Dimming Method  Output Terminal Wire Gauge Range  12 to 26 gauge  Output Terminal Wire Gauge Range  12 to 26 gauge  Output Dimming Method  Output Terminal Wire Gauge Range  12 to 26 gauge  Auxiliary Output Voltage  12 to 26 gauge  22VDC (powers accessories that operate between 12VDC and 24VDC)  Environmental  Enclosure Rating  Operating Temperature  Dry Location  Operating Temperature  -30°C to 50°C / (-22°F to 122°F)  Dimming  Output Dimming Method  O-10V  Minimum Dimming Level  Minimum Load for Dimming  BW per channel  Dimming Curve  Compliance  O-10V ANSI C137.1  Protection  Over Voltage Protection  Ves / Auto-Recovery  Overload Protection  Ves / Current Limit  Short Circuit Protection  Yes / Hiccup Mode Auto-Recovery  Approval Markings & Certifications		
Efficiency  Power Factor  Powe	. ,	22, 22.12
Power Factor   > 0.94 @ Max Load   Input Terminal Wire Gauge Range   12 to 26 gauge    Output (Per Channel)  Output Voltage   24VDC Constant Voltage   Max Load   96W   Output Current @ Maximum Load   4.0A   Output Dimming Method   PWM   Output Terminal Wire Gauge Range   12 to 26 gauge   Auxiliary Output Voltage   22VDC (powers accessories that operate between 12VDC and 24VDC)  Environmental   Enclosure Rating   Dry Location   Operating Temperature   -30°C to 50°C / (-22°F to 122°F)  Dimming   Output Dimming Method   0-10V   Minimum Dimming Level   1% w/ Dim to Off   Minimum Load for Dimming   8W per channel   Dimming Curve   Linear   Compliance   0-10V ANSI C137.1    Protection   Over Voltage Protection   Yes   Over Temperature Protection   Yes / Auto-Recovery   Overload Protection   Yes / Hiccup Mode Auto-Recovery   Approval Markings & Certifications	•	
Input Terminal Wire Gauge Range  Output (Per Channel)  Output Voltage  Max Load  Output Current @ Maximum Load  Output Dimming Method  Output Terminal Wire Gauge Range  Auxiliary Output Voltage  Environmental  Enclosure Rating  Operating Temperature  Dimming  Output Dimming Method  Output Dimming Method  Ory Location  Operating Temperature  Dimming  Output Dimming Method  Minimum Dimming Level  Minimum Load for Dimming  Dimming  Output Curre  Compliance  O-10V ANSI C137.1  Protection  Over Voltage Protection  Ves / Auto-Recovery  Overload Protection  Ves / Hiccup Mode Auto-Recovery  Approval Markings & Certifications	·	
Output (Per Channel) Output Voltage  Max Load Output Current @ Maximum Load Output Dimming Method Output Terminal Wire Gauge Range Auxiliary Output Voltage  Environmental Enclosure Rating Operating Temperature Dimming Output Dimming Method Output Tomming Method Output Terminal Wire Gauge Range Auxiliary Output Voltage  Environmental Enclosure Rating Operating Temperature  Dry Location Operating Temperature  -30°C to 50°C / (-22°F to 122°F)  Dimming Output Dimming Method O-10V Minimum Dimming Level Minimum Load for Dimming BW per channel Linear Compliance O-10V ANSI C137.1  Protection Over Voltage Protection Over Voltage Protection Over Temperature Protection Ves / Auto-Recovery Overload Protection Yes / Hiccup Mode Auto-Recovery Approval Markings & Certifications		
Output Voltage 96W Output Current @ Maximum Load 4.0A Output Dimming Method PWM Output Terminal Wire Gauge Range 12 to 26 gauge Auxiliary Output Voltage 22VDC (powers accessories that operate between 12VDC and 24VDC)  Environmental Enclosure Rating Dry Location Operating Temperature -30°C to 50°C / (-22°F to 122°F)  Dimming Output Dimming Method 0-10V Minimum Dimming Level 1% w/ Dim to Off Minimum Load for Dimming 8W per channel Dimming Curve Linear Compliance 0-10V ANSI C137.1  Protection Over Voltage Protection Yes Over Temperature Protection Yes / Auto-Recovery Overload Protection Yes / Hiccup Mode Auto-Recovery Approval Markings & Certifications		12 to 26 gauge
Max Load Output Current @ Maximum Load Output Dimming Method PWM Output Terminal Wire Gauge Range Auxiliary Output Voltage Province Rating Operating Temperature Dimming Output Dimming Method Output Terminal Wire Gauge Range Auxiliary Output Voltage  Enclosure Rating Operating Temperature Dimming Output Dimming Method Minimum Dimming Level Minimum Load for Dimming Dimming Output Output Dimming Protection Over Voltage Protection Over Voltage Protection Ves / Auto-Recovery Overload Protection Yes / Hiccup Mode Auto-Recovery Approval Markings & Certifications	Output (Per Channel)	
Output Current @ Maximum Load Output Dimming Method PWM Output Terminal Wire Gauge Range Auxiliary Output Voltage  Puriconmental  Enclosure Rating Operating Temperature  Dimming Output Dimming Method Output Dimming Method Operating Temperature  Dimming Output Dimming Method Minimum Dimming Level Minimum Load for Dimming Dimming Curve Compliance  Protection Over Voltage Protection Over Temperature Protection Ves / Hiccup Mode Auto-Recovery Approval Markings & Certifications	Output Voltage	24VDC Constant Voltage
Output Dimming Method Output Terminal Wire Gauge Range Auxiliary Output Voltage  PWM  12 to 26 gauge  22VDC (powers accessories that operate between 12VDC and 24VDC)  Environmental  Enclosure Rating Operating Temperature  Output Dimming  Output Dimming Method  Minimum Dimming Level Minimum Load for Dimming  Dimming  Output Dimming  Wy per channel  Linear  Compliance  O-10V ANSI C137.1  Protection  Over Voltage Protection  Ves  Over Temperature Protection  Ves / Auto-Recovery  Overload Protection  Yes / Hiccup Mode Auto-Recovery  Approval Markings & Certifications	Max Load	96W
Output Terminal Wire Gauge Range Auxiliary Output Voltage  22VDC (powers accessories that operate between 12VDC and 24VDC)  Environmental  Enclosure Rating Operating Temperature  Output Dimming Output Dimming Method Minimum Dimming Level Minimum Load for Dimming  Dimming Output Curve Linear Compliance O-10V ANSI C137.1  Protection  Over Voltage Protection Over Temperature Protection Short Circuit Protection Auxiliary Output Operating Surger Current Limit Short Circuit Protection  Yes / Hiccup Mode Auto-Recovery Approval Markings & Certifications	Output Current @ Maximum Load	4.0A
Auxiliary Output Voltage  22VDC (powers accessories that operate between 12VDC and 24VDC)  Environmental  Enclosure Rating  Operating Temperature  Dimming  Output Dimming Method  Minimum Dimming Level  Minimum Load for Dimming  Dimming Curve  Compliance  O-10V ANSI C137.1  Protection  Over Voltage Protection  Over Temperature Protection  Over Overload Protection  Yes / Current Limit  Short Circuit Protection  Yes / Hiccup Mode Auto-Recovery  Approval Markings & Certifications	Output Dimming Method	PWM
Environmental  Enclosure Rating Dry Location Operating Temperature -30°C to 50°C / (-22°F to 122°F)  Dimming Output Dimming Method 0-10V Minimum Dimming Level 1% w/ Dim to Off Minimum Load for Dimming 8W per channel Dimming Curve Linear Compliance 0-10V ANSI C137.1  Protection Over Voltage Protection Yes / Auto-Recovery Overload Protection Yes / Hiccup Mode Auto-Recovery Approval Markings & Certifications	Output Terminal Wire Gauge Range	12 to 26 gauge
Enclosure Rating Operating Temperature Operating Temperature -30°C to 50°C / (-22°F to 122°F)  Dimming Output Dimming Method O-10V Minimum Dimming Level Minimum Load for Dimming BW per channel Linear Compliance O-10V ANSI C137.1  Protection Over Voltage Protection Over Voltage Protection Ves / Auto-Recovery Overload Protection Yes / Current Limit Short Circuit Protection Yes / Hiccup Mode Auto-Recovery Approval Markings & Certifications	Auxiliary Output Voltage	
Operating Temperature  -30°C to 50°C / (-22°F to 122°F)  Dimming Output Dimming Method  0-10V  Minimum Dimming Level 1% w/ Dim to Off Minimum Load for Dimming 8W per channel Dimming Curve Linear Compliance 0-10V ANSI C137.1  Protection Over Voltage Protection Over Voltage Protection  Over Temperature Protection Ves / Auto-Recovery Overload Protection Yes / Current Limit Short Circuit Protection Approval Markings & Certifications	Environmental	
Dimming Output Dimming Method  Minimum Dimming Level  Minimum Load for Dimming  Dimming Curve  Compliance  Compliance  O-10V  Minimum Load for Dimming  BW per channel  Linear  O-10V ANSI C137.1  Protection  Over Voltage Protection  Over Voltage Protection  Over Temperature Protection  Over Temperature Protection  Yes / Auto-Recovery  Overload Protection  Yes / Current Limit  Short Circuit Protection  Approval Markings & Certifications	Enclosure Rating	Dry Location
Output Dimming Method  Minimum Dimming Level  Minimum Load for Dimming  Dimming Curve  Compliance  O-10V ANSI C137.1  Protection  Over Voltage Protection  Over Temperature Protection  Overload Protection  Short Circuit Protection  Approval Markings & Certifications	Operating Temperature	-30°C to 50°C / (-22°F to 122°F)
Minimum Dimming Level Minimum Load for Dimming Bimming Curve Linear Compliance O-10V ANSI C137.1  Protection Over Voltage Protection Over Temperature Protection Overload Protection Short Circuit Protection Approval Markings & Certifications	Dimming	
Minimum Load for Dimming  Dimming Curve  Compliance  O-10V ANSI C137.1  Protection  Over Voltage Protection  Over Temperature Protection  Overload Protection  Short Circuit Protection  Yes / Hiccup Mode Auto-Recovery  Approval Markings & Certifications	Output Dimming Method	0-10V
Dimming Curve Compliance 0-10V ANSI C137.1  Protection Over Voltage Protection Over Temperature Protection Overload Protection Yes / Auto-Recovery Overload Protection Yes / Current Limit Short Circuit Protection Yes / Hiccup Mode Auto-Recovery Approval Markings & Certifications	Minimum Dimming Level	1% w/ Dim to Off
Compliance 0-10V ANSI C137.1  Protection  Over Voltage Protection Yes Over Temperature Protection Yes / Auto-Recovery Overload Protection Yes / Current Limit Short Circuit Protection Yes / Hiccup Mode Auto-Recovery  Approval Markings & Certifications	Minimum Load for Dimming	8W per channel
Protection Over Voltage Protection Over Temperature Protection Overload Protection Overload Protection Short Circuit Protection Approval Markings & Certifications  Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Dimming Curve	Linear
Over Voltage Protection  Over Temperature Protection  Overload Protection  Overload Protection  Short Circuit Protection  Approval Markings & Certifications  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Y	Compliance	0-10V ANSI C137.1
Over Temperature Protection  Overload Protection  Short Circuit Protection  Approval Markings & Certifications  Yes / Auto-Recovery  Yes / Current Limit  Yes / Hiccup Mode Auto-Recovery	Protection	
Overload Protection  Short Circuit Protection  Approval Markings & Certifications  Yes / Current Limit  Yes / Hiccup Mode Auto-Recovery	Over Voltage Protection	Yes
Short Circuit Protection Yes / Hiccup Mode Auto-Recovery  Approval Markings & Certifications	Over Temperature Protection	Yes / Auto-Recovery
Approval Markings & Certifications	Overload Protection	Yes / Current Limit
Approval Markings & Certifications	Short Circuit Protection	Yes / Hiccup Mode Auto-Recovery
	Approval Markings & Certifications	
Certifications Class 2	Listing	UL2108 (pending), CSA C22.2 No. 250.2

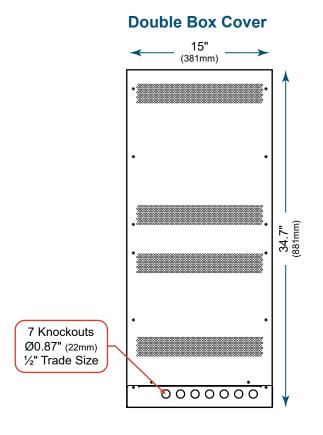


## **MECHANICAL DIAGRAMS**





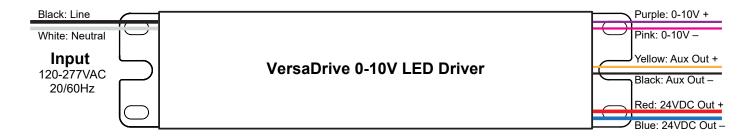






## JB-Series | VersaDrive 0-10V Wireless Node Ready Specification Sheet

## **WIRING DIAGRAMS**



#### 22VDC Aux Out

Operates sensors & accessories that operate between 12VDC and 22VDC. Yellow wire is Positive (+), Black wire is Negative (-). Auxiliary output is independent of driver and can be used to power sensors/accessories regardless of the driver output circuit.

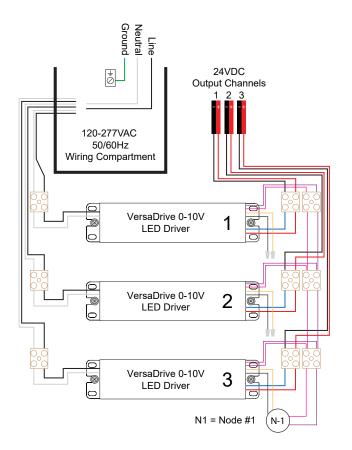
#### 0-10V Dimming

Factory wiring of 0–10V signal is daisy chained for one 0–10V Wireless sensor in small box (2–3 Drivers) or two 0–10V Wireless sensors in large box (4–7 driver)

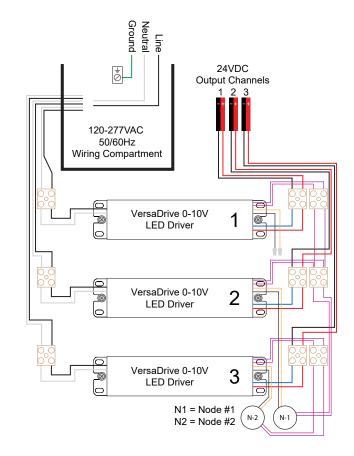
#### Nodes & Sensors

Installer can connect Minimum one driver with single 0–10V wireless sensor and Maximum 4 drivers with single 0–10V wireless sensor.

## **Small Box with Single 0-10V Sensor**



## Small Box with Two 0-10V Sensors





## **WIRING DIAGRAM**

## Large Box with Two 0-10V Sensors

