

# JBZT-SERIES | E-SERIES

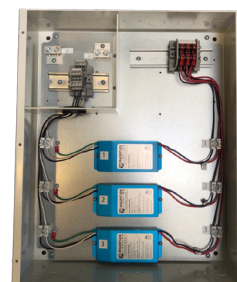
## Constant Voltage Electronic LED Driver

### Phase-Cut | Zone Multi-Channel Dimming

## Specification Sheet

The JUNCTION BOX ZONE (JBZT) SERIES delivers a multi-channel, specification grade solution for Class 2 Magnitude electronic LED drivers making it the perfect product for multi-output residential and commercial lighting applications. Available in surface or recessed mount, the high-quality metal junction box includes multiple 1 $\frac{1}{8}$ " knock-outs and comes pre-wired for quick and easy installation. The JBZT-SERIES is constructed with a high voltage compartment and utilizes DIN rail terminal blocks to support independent channel outputs.

The JBZT | E-SERIES is available in 2 to 8 channel configurations. The E-SERIES is an electronic Class 2 dimmable LED driver that features auto reset, over current and short circuit protection as well as an efficiency over 90% resulting in low operating case temperature. The driver is phase dimmable down to 1% with leading edge TRIAC dimmers.



2 to 3 Channels



4 to 8 Channels

**Installation:** Integrated junction box with multiple 1 $\frac{1}{8}$ " knockouts

**Driver Type:** Class 2 multi-channel

**Dimming:** Phase-cut dimmable down to 1% with leading edge TRIAC dimmer

**Channel Dimming:** Individual zone dimming across all channels

**Input Voltage:** Universal 120VAC, 50/60Hz

**Output Voltage:** 12 VDC or 24 VDC

**Environmental:** Dry

**Listing:** UL Listed

**Certifications:** UL2108 CSA C22.2 No. 250.0-08

**Warranty:** 5 year

120VAC 12 / 24VDC

CLASS 2 SELV TYPE HL



DIM DOWN TO 1%



E-SERIES is also available in:

- E-SERIES UL with Junction Boxes
- E-SERIES UL without Junction Boxes
- EZJ E-SERIES

Please refer to [www.magnitudeinc.com](http://www.magnitudeinc.com) for more details.

## ORDERING GUIDE

Type	No. of Channels	Driver Series	Dimming Type	Max Power Per Channel	Driver Type	Output	Mounting	Finish
JBZT — JB Zone	2 — 2 channel	E — E-Series	MLV-ELV Phase	60 — 60W	R — Recognized	12 — 12VDC	R — Recessed	W — White
	3 — 3 channel			96 — 96W		24 — 24VDC	S — Surface	
	4 — 4 channel							
	5 — 5 channel							
	6 — 6 channel							
	7 — 7 channel							
	8 — 8 channel							

SPECIFICATIONS		
MAX LOAD	60W	96W
<b>INPUT</b>		
Input Voltage Range	120VAC $\pm$ 10%	120VAC $\pm$ 10%
Input Frequency	50 / 60Hz	50 / 60Hz
Input Current	0.61A Max per Channel	0.85A Max per Channel
Efficiency	>90% Max	>90% Max
Power Factor	0.95	0.91
Input Terminal Wire Gauge Range	12 to 26 gauge	12 to 26 gauge
<b>OUTPUT (Per Channel)</b>		
Max Load	60W	96W
Output Voltage @ Max Load	12.0 VDC	24.0 VDC
Output Current @ Max Load	4.2A	4.1A
Output Terminal Wire Gauge Range	12 to 26 gauge	12 to 26 gauge
<b>ENVIRONMENTAL</b>		
Operating Temperature	-30°C to +50°C (-22°F to 122°F)	-30°C to +50°C (-22°F to 122°F)
<b>DIMMING</b>		
Minimum Dimming Level	1%	1%
<b>PROTECTION</b>		
Circuit Breaker	Over Voltage Auto-Reset Short Circuit	Over Voltage Auto-Reset Short Circuit
<b>APPROVAL MARKINGS</b>		
Certificates / Approval Signs	UL2108	UL2108

2 to 3 Channels		
	Surface Mount	Recessed Mount
Length	16.85" (427.99mm)	17.83" (453.0mm)
Width	14" (355.6mm)	15" (381.0mm)
Depth	4.17" (106.0mm)	4.17" (106.0mm)

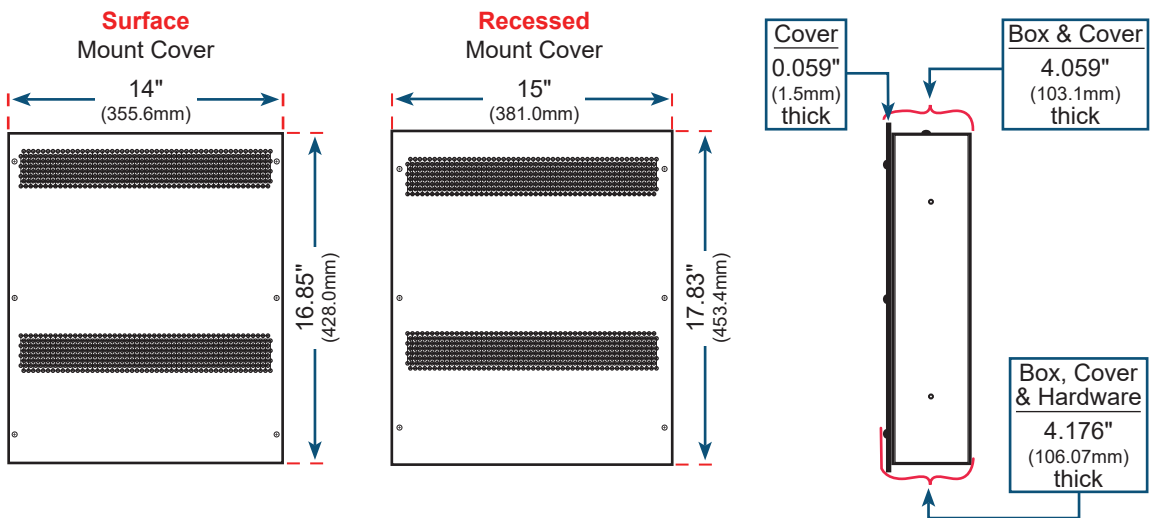
4 to 8 Channels		
	Surface Mount	Recessed Mount
Length	33.70" (855.98mm)	34.70" (881.0mm)
Width	14" (355.6mm)	15" (381.0mm)
Depth	4.17" (106.0mm)	4.17" (106.0mm)

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Phase-Cut | Zone Multi-Channel Dimming

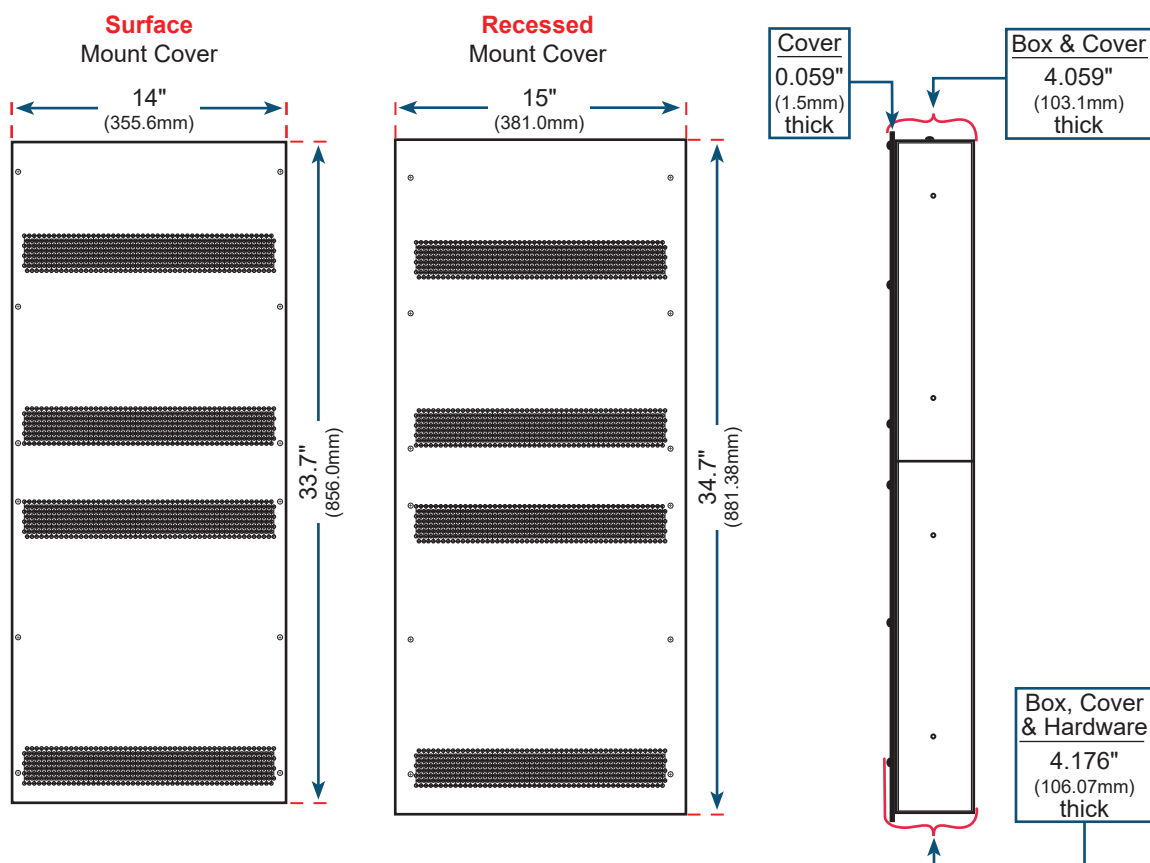
Specification Sheet

MECHANICAL DIAGRAMS

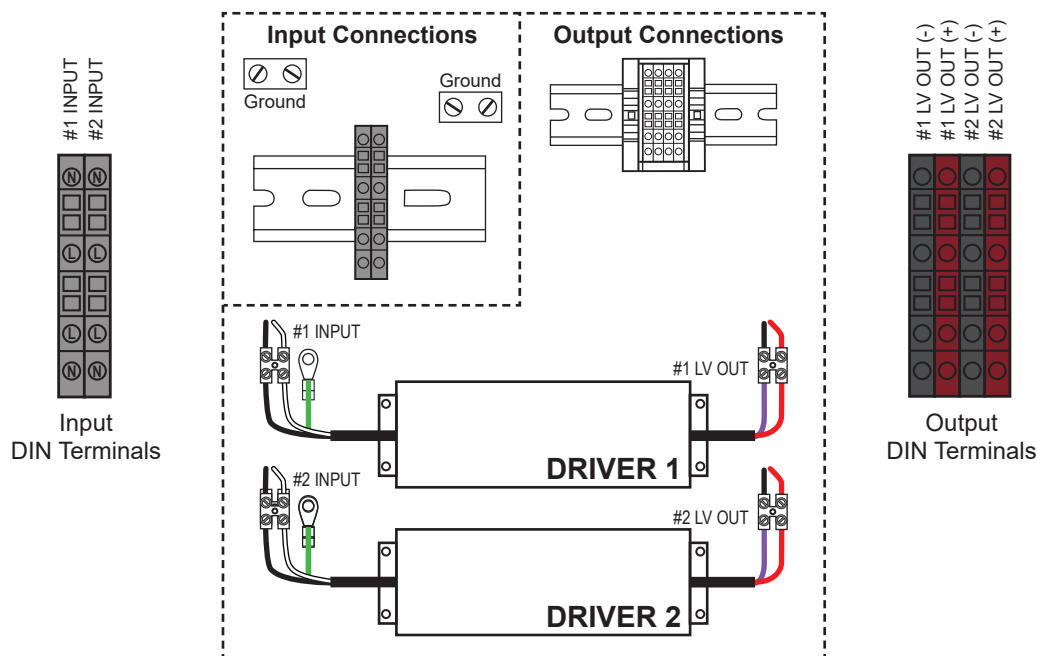
2 to 3 Channels



4 to 8 Channels



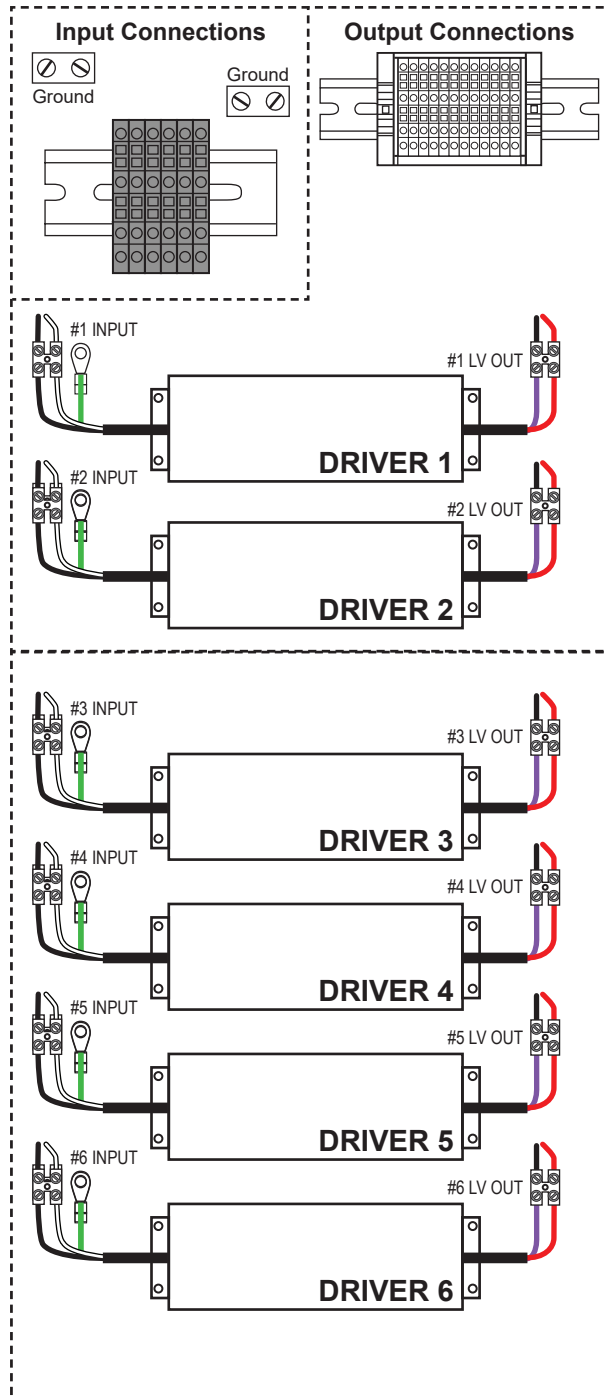
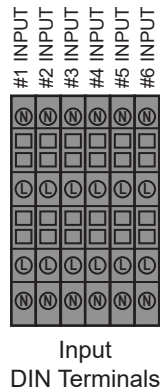
## WIRING DIAGRAM | 2 TO 3 CHANNELS



## NOTES

- Wiring diagram is typical for 3 channel version
- Input and output terminal blocks accept 12 to 26 gauge wire
- Output connections from driver for 12 volt is **blue** and 24 volt is **purple**

**WIRING DIAGRAM | 4 TO 8 CHANNELS**



**NOTES**

- Wiring diagram for 6 channel shown, typical for 4 to 8 channel versions
- Input and output terminal blocks accept 12 to 26 gauge wire
- Output connections from driver for 12 volt is **blue** and 24 volt is **purple**