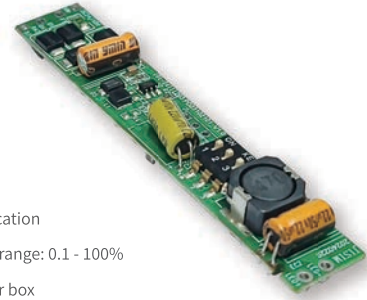


## Product introduction

JISIM JD3136 is a constant-current LED intelligent dimming driver. It is a product specifically designed for DC magnetic track lights. It supports DALI dimming function, and its customized dimming curve makes the eyes more comfortable. It is suitable for magnetic lights. When combined with an intelligent control system, it is widely used in high-end places such as smart homes, smart hotels, smart commercial lighting, smart offices, and smart buildings.

## Product Features

- Support DALI-2 DT6 dimming mode
- Dedicated to magnetic track lights, No polarity of input
- Compliance with CE, DALI-2 and other certifications
- IP20 protection grade, indoor use
- Nominal life-time up to 50000h, 5-year warranty
- Standby power input < 0.5W, meets the requirements of ErP certification
- No high-frequency noise, smooth dimming, Flicker-free, Dimming range: 0.1 - 100%
- Ultra-small size, high efficiency, compatible with shorter size power box
- The multi-level current can be set by the DIP switch, and the maximum output power is 37.8W.
- Intelligent LED hot-plug protection function SELV and Class III design, suitable for use inside of the luminaire



## Technical Specifications

(All parameters not specially mentioned are measured at 230VAC input, full load and 25°C of ambient temperature)

Model	JD3136			Features	Output Type	constant-current	
Input	DC Voltage Range	24-48V			Dimming Interface	DALI-2 DT6(IEC62386-101-102-207)+PushDim	
	Rated Voltage	24Vdc/48Vdc			Output Feature	Non-Isolation	
	Input Frequency	0Hz			IP Rating	IP20 (With shell)	
	Input Current	≤0.8A/24Vdc(at full load) ≤0.85A/48Vdc(at full load)			Insulation Rating	Class III light fixtures	
	Input Power	Max.40.5W			No Load Output Voltage	≤48Vdc	
	Efficiency	≥93%(at full load)		Rated voltage	3-18V@Vin=24Vdc,3-42V@Vin=48Vdc		
Environment	Working Temperature	ta:-20°C~45°C		Output	Output Current Range	550-900mA	
	Working Humidity	20~95%RH(No Condensation)			Output Power Range	1.65-16.2W@Vin=24Vdc,1.65-37.8W@Vin=48Vdc	
	Storage Temperature/Humidity	-20~85°C/10~95%RH			Dimming Range	0.1~100%	
	Life Time	>50000h@ta=45°C			Ripple Current	<5%	
					Voltage Accuracy	±5%	
ErP	Power Consumption	Stanby Power Consumption	<0.5W (PWM Off)		PWM Frequency	1000Hz	
	Flicker/ Stroboscopic Effect	IEEE1789	Meet IEEE Std1789-2015				
		CIESVM	Pst≤1, SVM≤0.4				
	DF	Phase Factor	DF≥0.9				
Protection	Overload Protection	Hiccup Mode (Auto-Recovery after Elimination)					
	Open Circuit Protection	≤48Vdc					
	Stort Circuit Protection	Hiccup Mode (Auto-Recovery after Elimination)					
Test Equipment		AC Source	PS-61005	Withstand Voltage Tester	TH9302D	Other	
		DC Electronic Load	IT8512A+	Thermostatic Humidity Chamber	HT-H-802		
		Spectrum Analyzer	KH3932	Ntelligent Electrical Parameter Meter	PF9800	LED Load	
		Surge Generator	SUG61005TB(7.5KV)-2216	Oscilloscope	TBS1102B		
		Stroboscope	LANSHU-201B	Digital Wattmeter	PM2818C		

## LED Current Settings

DC24V

Number	Output				Switch Position		
	Current (mA)	Voltage (VDC)	NO Load Output Voltage (VDC)	Power (W)	1	2	3
*1	550	3-18	24	9.9	/	/	/
2	600	3-18		10.8	ON	/	/
3	650	3-18		11.7	/	ON	/
4	700	3-18		12.6	ON	ON	/
5	750	3-18		13.5	/	/	ON
6	800	3-18		14.4	ON	/	ON
7	850	3-18		15.3	/	ON	ON
8	900	3-18		16.2	ON	ON	ON

\* Factory default.

1. Please disconnect the AC input before adjusting the output current via the DIP switch, If not, it may damage the lighting fixture.

2. No Overload, The output power should be less than or equal to 16.2W.

## DC Track Light DALI-2 DT6 Dimmable LED Driver

DC48V ➤

Number	Output				Switch Position		
	Current (mA)	Voltage (VDC)	NO Load Output Voltage (VDC)	Power (W)	1	2	3
*1	550	3-42	48	23.1	/	/	/
2	600	3-42		25.2	ON	/	/
3	650	3-42		27.3	/	ON	/
4	700	3-42		29.4	ON	ON	/
5	750	3-42		31.5	/	/	ON
6	800	3-42		33.6	ON	/	ON
7	850	3-42		35.7	/	ON	ON
8	900	3-42		37.8	ON	ON	ON

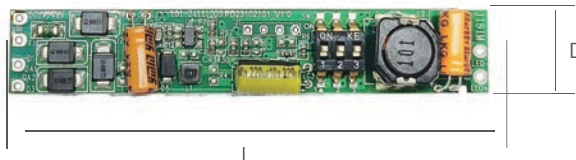
◀ \* Factory default.

◀ 1. Please disconnect the AC input before adjusting the output current via the DIP switch, If not, it may damage the lighting fixture.

◀ 2. No Overload, The output power should be less than or equal to 37.8W.

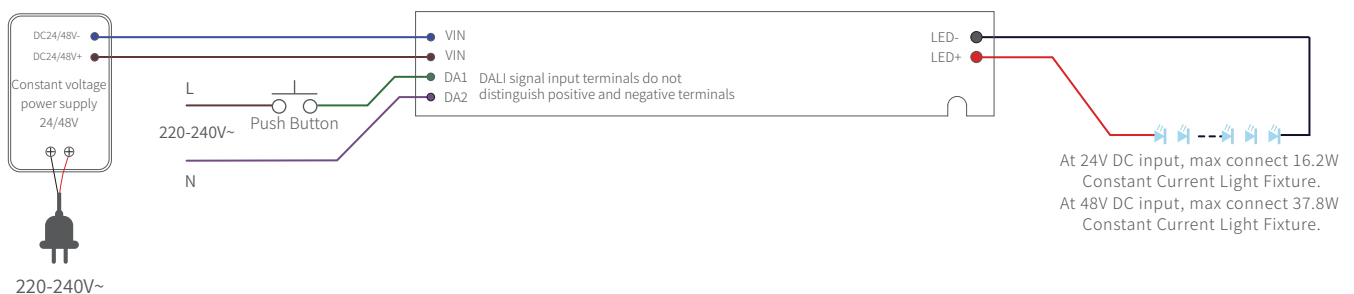
## 2D Diagram

Length (L)	Width (D)	Heigh(H)	Weight(W)
76.5mm	13mm	8mm	7±5g



## Wiring Diagram

## PushDim Application Wiring Diagram ➤

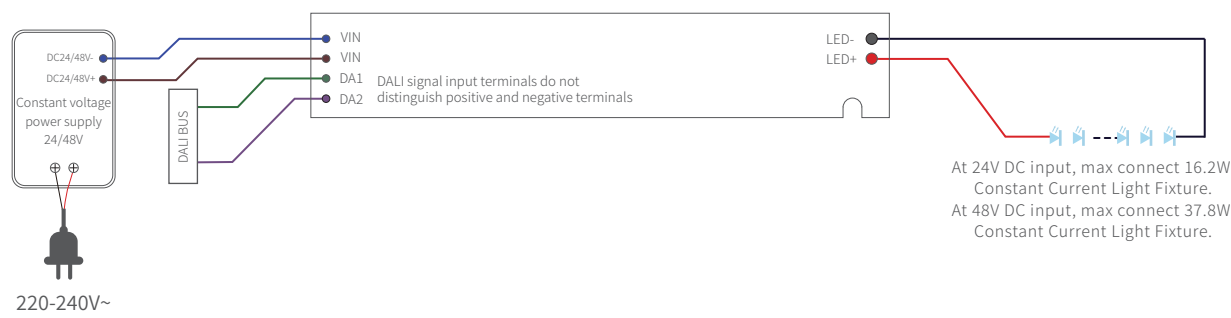


◦ Push function ◦

Long press: Adjust brightness, short press: Turn on/off.

DC Track Light DALI-2 DT6 Dimmable LED Driver

DALI Application Wiring Diagram ➤



◦ Remark ◦

- The two DALI control lines polarity-reversible.

➤ Default setting brightness is 100%.

➤ The default is logarithmic dimming curve.

➤ Max.64 DALI drivers per DALI control line.

➤ The current consumption of the DALI interface is less than 2mA.

➤ The maximum distance length of the DALI control line is 200m at 2x1.0mm.

➤ DALI bus can be wired together with any mains voltage cables, but separate wiring is recommended.
- Max. 64 DALI drivers per DALI control line. DALI protocol includes Max.16 scene groups and 16 scenes.

➤ The configuration parameters of the driver can be set through the DALI configuration tool or DALI application controller during installation, such as setting device address, group address, power-on level, bus-failure level, scene level, fade time, dimming curve, etc.

Installation Instructions

◦ Connection instructions ◦

1. Before wiring, carefully check the labels at the input, output, and signal points.
2. All connections must be as short as possible to ensure good EMI performance.
3. The driver output does not support hot swap.
4. Incorrect wiring can damage the LED.
5. The driver should be installed in a dry, acid-free, oil-free, fat-free environment
6. The installation ambient temperature of the drive shall not exceed the value of  $t_a$  at any time.
7. Max. length of output wires is 0.5 m.
8. Please be careful not to damage the electronics during assembly.
9. All electronic components shall not be squeezed after assembly.

Packaging Image



◀ Small Carton Packaging



◀ Large Carton Packaging

## DC Track Light DALI-2 DT6 Dimmable LED Driver

## Packaging Size

Packaging Details	Carton Size	Packing Units	Weight
Small Carton Packaging	350 x 197 x 167mm	210pcs	2.92kg
Large Carton Packaging	420 x 360 x 365mm	840pcs	12.59kg

## Packaging instructions:

14 products are installed on each layer. Each small box contains 15 layers, with a total of 210 products. Each large box holds 4 small boxes.

## Cautions

- ▶ This product is used as a component in conjunction with a lighting fixture. Due to the influence of EMC from the lighting fixture and wiring, customers should perform EMC testing to confirm the entire product set.
- ▶ No operation with power on. Installation and debugging should be performed by qualified professionals. Please read the product manual carefully before installation.
- ▶ This product can be installed inside the luminaire for use, but the internal temperature of the luminaire must be strictly controlled to not exceed 60°C. Exceeding this temperature may adversely affect the service life of the luminaire.
- ▶ This product is not waterproof and should be avoided from direct sunlight and rain. If it is installed outdoors, please use a waterproof case.
- ▶ Good heat dissipation conditions are beneficial to the product's lifetime. Please install the product in a suitable environment, and strictly prohibit using double-sided tape to attach the casing or circuit board.
- ▶ Please check the parameters of the LED driver to ensure they meet the application requirements of the lighting fixture.
- ▶ Please install according to the standard wire gauge specified in the manual to avoid malfunctions caused by inappropriate wiring.
- ▶ Before powering on, please ensure that the wiring is correct to prevent damage to the driver or lighting fixture caused by incorrect wiring.
- ▶ If a malfunction occurs, please do not attempt to repair it yourself; if you have any questions, please contact the manufacturer.
- ▶ The manual is for reference only. Please refer to the actual product. Any changes to this product will not be notified separately.
- ▶ For more information, please send an email to [fei.l@jisim-tech.com](mailto:fei.l@jisim-tech.com).

## Warranty Terms

- ▶ The product is warranted for 5 years. (The life and MTBF of the product are for reference only, and do not represent a warranty statement.)
- ▶ During the warranty period, if any quality issues arise, JISIM will provide free repair or replacement services.

## Non-Warranty Terms

The following situations are not covered by the free warranty or replacement service:

- ▶ The warranty period has expired.
- ▶ Damage caused by human factors such as overvoltage, overload, or improper operation.
- ▶ Deformation or damage to the exterior appearance.
- ▶ Damage caused by natural disasters or other irresistible human factors.
- ▶ The warranty label has been torn off or removed.
- ▶ No contract or invoice proof is provided.



## Notice:

1. Repair or replacement provided is the only remedy for customers. JISIM is not liable for any incidental or consequential damage unless it is within the law.
2. JISIM has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.