Smart LED Driver Design and Quality EASEIC of USA

SPEC SHEET

LND118

Smart F-Dim Dali DRIVFR

18W 3-62V 180-900mA Dali Dim LND118 613118



SELV RoHS

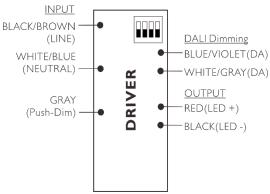
Features

- Multilevel current output, Constant current output 180-900mA
- Multi-power driver supplied with dip-switch for the selection of the output current
- DALI digital dimming control interface, compatible with standard (IEC 62386) DALI interfaces.
- Memory function for sets or light groups. Recall of stored functions.
- Dimming range from 0 100%, LED start at 0.1% possible.
- PUSH-Dim, dimming and switching via push-button with memory function.
- Universal AC input (90~265Vac)
- Designed for LED lighting applications
- UL Class 2 output, Class 2 protection against electric shock for direct or indirect contact
- Supplied with terminal cover and cable retainer.
- Driver can be secured with slot for screws.
- Can be switched on and off on secondary circuit for power LED.
- Protections: Short circuit , Over voltage, Over Current
- 5 year warranty

Benefits

- Enables design of low profile and compact fixtures
- Helps to maximize energy savings and allows application specific light levels
- Supports majority of available dimming solutions

Wire Diagram



Note:

Install in accordance with National and Local Electrical Codes.

Use 16-24 AWG solid copper wire rated >=300V/85°C.

Strip wire 3/8".

Please pay special attention to wiring installation guidelines, Wrong wiring will cause damage to the LED driver.

Before connection the power, make sure you have access to the LED load.





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Electrical Specifications

Ordering Information					
Туре	LND118				
Order Code	613118				
Full product name	Smart 18W 3-62V 180-900mA Dali Dim				
Input Information					
Line Voltage	100-240Vac_rms				
Line Current	0.22A@100VAC 0.18A@120VAC 0.10A@230VAC				
Line Frequency	50/60Hz				
Min, Mains Voltage operational	90[min]				
Max, Mains Voltage operational	265[max]				
THD(total)	<20%				
Power Factor(PF)	>0.92				
Input Power (Max.)	21.8W				
Efficiency @Max Load and 70°C case	87%@100VAC 87%@120VAC 88%@230VAC				
Inrush Current(Typ.)	Cold Start 55A(twidth=270us measured at 50% lpeak) at 230VAC				
Leakage Current(Typ.)	<0.5mA/230VAC				
Output Information					
Output Power	18W(See Output current settings table)				
Output voltage	3V to 62V				
Output Constant Current	180-90mA ±5%(See Output current settings table)				
Maximum open circuit voltage	<60V				
Output Current Ripple (ripple=peak to peak)	2% of nominal output voltage (whichever is greater),measured at 20Mh: bandwidth with 0.1 uf ceramic capacitor in parallel with 10uf electrolytic capacito connected at the end of the output connector.				
Protections	Over Current, Over Voltage,				
	Short Circuit and Open Circuit Protection for LED+ and LED-				
Ambient Temp Range	-20°C to +50°C, 20-95% RH non-condensing				
Max Case Temperature(Tc)	75°C for Life & 85°C for UL Safety				
Dimming Features					
 Dimming Interface	DALI(IEC62386), Push-Dim, On/off Dim				
DALI Dimming Specifications	Sink Current <2mA				
Dimming range	0-100%				
Environment & Approbation					
Environmental Protection Rating	UL damp and dry				
Agency Approbations	UL8750,UL1310, CSA-C22.2 No.250.0-08,ENEC EN61347-1,EN61347-2-13 independent, EN62384,TUV EN60950-1				
Electromagnetic Compliance	FCC Title 47 Part 15 Class A Compliance to EN55015,EN61000-3-2 Class C(@100% Load);en6100-3-3 Compliance to EN61000-4-2,3,4,5,6,8,11;EN61547,EN55024, light industry level(surge 2KV), criteria A				
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All the specifications are typical and at 25 $^{\circ}\!\mathcal{C}$ Tcase unless specified otherwise



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Output Current Settings

LND118, Constant Current output 180-900mA.

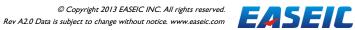
Multi-power driver supplied with dip-switch for the selection of the output current.

Factory defau	Ilt setting is 180)mA.					
LND118			DIP-Switch Settings				
Pout Max.	Vout DC	lout DC	I	2	3	4	
IIW	3-62V	180mA					
15W	3-62V	250mA	ON				
18W	3-52V	350mA		ON			
18W	3-45V	400mA			ON		
18W	3-40V	450mA				ON	
18W	3-35V	520mA	ON			ON	
18W	3-33V	550mA		ON	ON		
18W	3-30V	600mA		ON		ON	
18W	3-28V	650mA			ON	ON	
18W	3-26V	700mA	ON	ON		ON	
18W	3-22V	820mA		ON	ON	ON	
18W	3-20V	900mA	ON	ON	ON	ON	

Suggested max. number of the LNX units that can be connected to a MCB@230VAC

МСВ	BIO	B16	C10	C16
LND118	18	26	28	38

Note: These calculated values are based on MCB S201 series manufactured by ABB



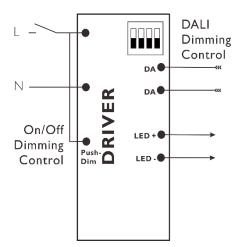


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Dimming Control Wiring Diagrams

> On/Off sectional dimming control



LNA, LND Series LED dimming driver support segmented dimming, sectional dimming only need to use the standard ON / OFF wall switch can easily start without rewiring.

According to the following steps:

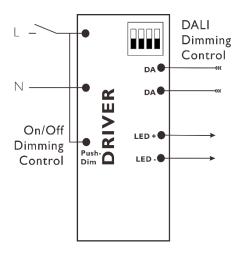
- According to the requirements of sectional dimming LED driver wiring, confirm before power ON / OFF wall switch in the ON state;
- ♦ There are 30%, 60% and 100% in three segments dimming state, dimming depends on the number of state power, it will turn cycle.
 ∧ Risk of short circuit.



Push-Dim can only port L (AC) short circuit,

does not allow Push-DIM port N (AC) short circuited.

Push-dim 0-100% dimming control



By pressing the push button for less than one second the LEDs turn on or off. By pressing the push button for more than one second the light intensity of the LEDs is dimmed according to the following modalities:

- If the light intensity is not at maximum, by pressing the key there will be an increase of this to maximum or to the corresponding level at the moment the key is released;
- A further pressure on the key inverts the dimming direction to the minimum value or to the corresponding level at the moment the key is released;
- If light intensity is at maximum by pressing the key there will be a decrease to the minimum value or to the corresponding level at the moment the key is released.

Total length of PUSH cables <20m. Factory dimming setting at 100%.



Note: Only use self-reset push button without indicator light. Risk of short circuit. The self-reset button can only be linked between the Push-dim and the L(AC).

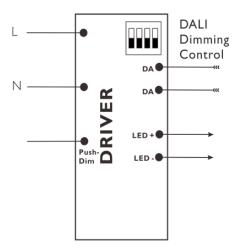
Do Not connect the self-reset button to the $\ensuremath{\mathsf{N}}(\ensuremath{\mathsf{AC}})$



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> DALI interface dimming control



LND series of LED dimming driver, in line with DALI protocol specification IEC62386, acceptable compliance with ON / OFF, scenes and dimming DALI controller instruction norms issued.

Each DALI subnets can only have a maximum of 64 DALI slave devices (DALI LED dimming drivers).

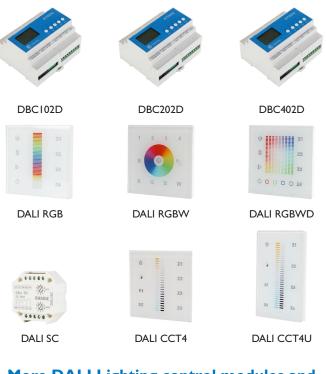
Each DALI LED dimming drivers will consume 2mA control terminal of the current.

DALI connections of up to 300 m can be made with any 2 wire 0.5 - 1.5 mm2 mains rated cable.

DALI cable must be mains-rated and the maximum voltage drop along the length of the cable must not exceed 2V.

In rare instances where the environment may be electrically noisy, due to adjacent circuits carrying high switching currents, we recommend a 2 wire twisted pair screened and sheathed cable.

DALI Interface Lighting Controller



More DALI Lighting control modules and details , please browse www.easeic.com

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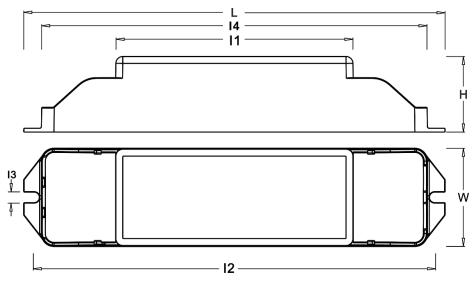


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Mechanical Specifications

Mechanical Drawing:



Dimensions

	In.	mm
Case Length(L)	6.6	167
Case Width(W)	1.5	39
Case Height(H)	1.2	30
Mounting Holes(II)	3.8	95
Mounting Holes(12)	6.3	160
Mounting Holes(13)	0.18	4.5
Mounting Holes(I4)	6.0	154
Overall Length	6.6	167



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