

# LED Driver DALI Series

## Introduction

The DALI series led driver provides the best compromise between an attractive price and qualified performance.

With a focus on application-related functions, the LED Driver range offers good quality and performance that ensures reliable operation of LED module.

## Features:

- Independent fixed output LED Driver
- Constant current
- Specific, optimized output current and voltage
- Output power dim, 8-60W
- Whole range are featured with flicker free performance
- Idea circuit design overcome luminarie flickering with voltage fluctuation.
- For luminaires of protection class I and protection class II
- Temperature protection as per EN / IEC61347
- Small, super compact dimensions
- DALI signal: 16 bit Manchester Code Speed 1 % to 100 %



Part No: 430268



Part No: 430269

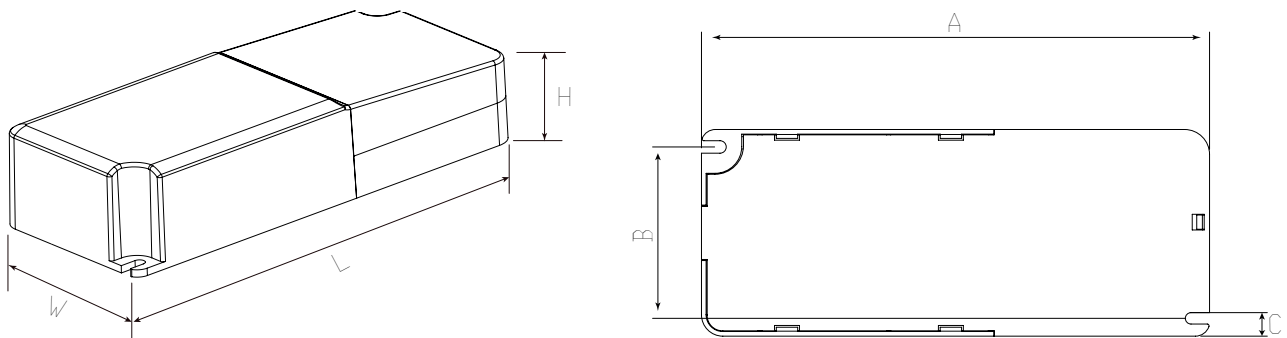


Part No: 430270

## Datasheet

Driver Datasheet (Dali-dimmable)				
Code		430268	430269	430270
	Input Power	8-22W	24-45W	45-60W
	Input Voltage	180-265V		
	Rated Input Voltage(V)	200-240V		
	Frequency	50/60HZ		
	Input Current	≤0.14A	≤0.28A	≤0.37A
	Rated Input Current	≤0.13A	≤0.25A	≤0.34A
	Power Factor (typ)	0.9		
	Total Harmonic Distortion(THD)	<20% @230V		
	Efficiency (typ)	≥86%	≥88%	≥90%
	Inrush Current (Typ.)	15.1A/113uS	16A/214uS	24.2A/326uS
	Max Circuit Breaker	Please refer to" Circuit breaker Specification"		
	Leakage Current	<0.5mA/240V		
	No Load Wattage	<0.5w @230v		
Output	Output Voltage Range	30-40V		
	Rated Output Current	200-550mA	600-1050mA	1050-1500mA
	Line Regulation	±5%		
	Open Circuit Voltage (max)	50V		
	Setup time(note1)	<1s @230V		
	Flickering Index(IEEEStd 1789)	3%(NO RISK)	6%(NO RISK)	6%(NO RISK)
Protection	Short Circuit Protection	Constant current limiting, recovers automatically after fault condition is removed		
	Over Voltage Protection	Shut down o/p voltage		
	Over Temperature Protection	Shut down o/p voltage, recovers automatically after temperature goes down		
Safety & EMC	Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13, IEC/EN62384 independent,GB19510.14,GB19510.1 approved		
	Withstand Voltage	I/P-O/P:3.75KVac,<5mA 60S; I/P-FG:1.6KVac,<5mA 60S; O/P-FG:0.5KVac,<5mA 60S		
	Isolation Resistance	I/P-O/P: 500VDC, ≥100M Ω		
	Surge	IEC/EN61000-4-5(L-N:0.5KV, )	IEC/EN61000-4-5(L-N:1KV, )	
	EMC Emission	IEC/EN55015, IEC/EN61000-3-2		
	EMC Immunity	IEC/EN61000-4-2,3,4,5,6,8,11; IEC/EN61547		
Other	Dimension	143*58*30mm(L*W*H)	144*80*32mm(L*W*H)	156*80*32mm(L*W*H)
	Weight	0.125Kg	0.19Kg	0.245Kg

## Dimensions



Dimension(mm)						
Code	L	W	H	A	B	C
430268	143	58	30	132.2	48.1	3.2
430269	144	80	32	133.4	69.4	3.2
430270	156	80	32	145.7	68.3	3.2

## Circuit Breaker Specification

Circuit Breaker Specification								
Code	B10	B13	B16	B20	C10	C13	C16	C20
	10	13	16	20	10	13	16	20
430268	21	27	33	41	34	44	55	68
430269	21	27	33	41	21	35	43	53
430270	19	24	30	38	20	25	31	39

## Dip Switch Table

Code	Vout	Po Max	Io	1	2	3
430268	30-40V	22W	550mA	ON	ON	ON
	30-40V	20W	500mA	-	ON	ON
	30-40V	18W	450mA	ON	-	ON
	30-40V	16W	400mA	-	-	ON
	30-40V	14W	350mA	ON	ON	-
	30-40V	12W	300mA	-	ON	-
	30-40V	10W	250mA	ON	-	-
	30-40V	8W	200mA	-	-	-
Code	Vout	Po Max	Io	1	2	3
430269	30-40V	42W	1050mA	ON	ON	ON
	30-40V	38W	950mA	-	ON	ON
	30-40V	36W	900mA	ON	-	ON
	30-40V	34W	850mA	ON	ON	-
	30-40V	32W	800mA	-	-	ON
	30-40V	30W	750mA	-	ON	-
	30-40V	28W	700mA	ON	-	-
	30-40V	24W	600mA	-	-	-
Code	Vout	Po Max	Io	1	2	3
430270	30-40V	60W	1500mA	ON	ON	ON
	30-40V	56W	1400mA	-	ON	ON
	30-40V	54W	1350mA	ON	-	ON
	30-40V	52W	1300mA	ON	ON	-
	30-40V	50W	1250mA	-	-	ON
	30-40V	48W	1200mA	-	ON	-
	30-40V	46W	1150mA	ON	-	-
	30-40V	42W	1050mA	-	-	-

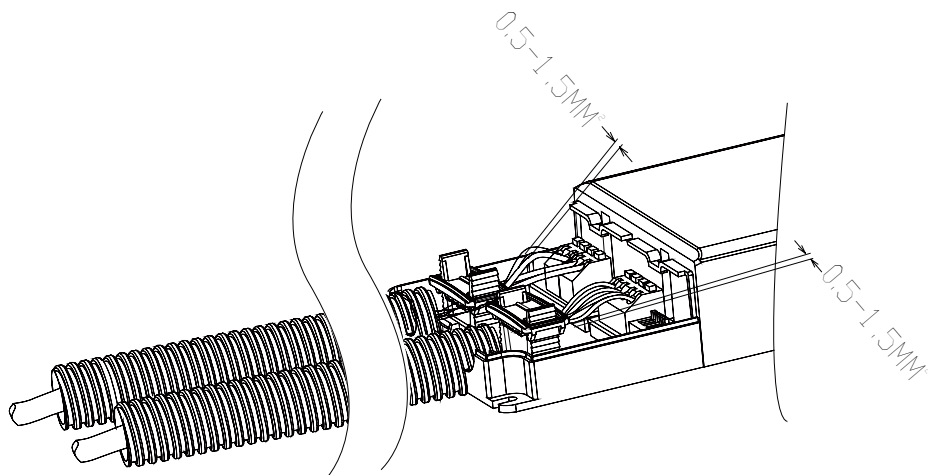
## Circuit Diagram

### No-load operation

In case of open circuit, protection will be activated, there will be 50V output voltage.

### Glow wire test

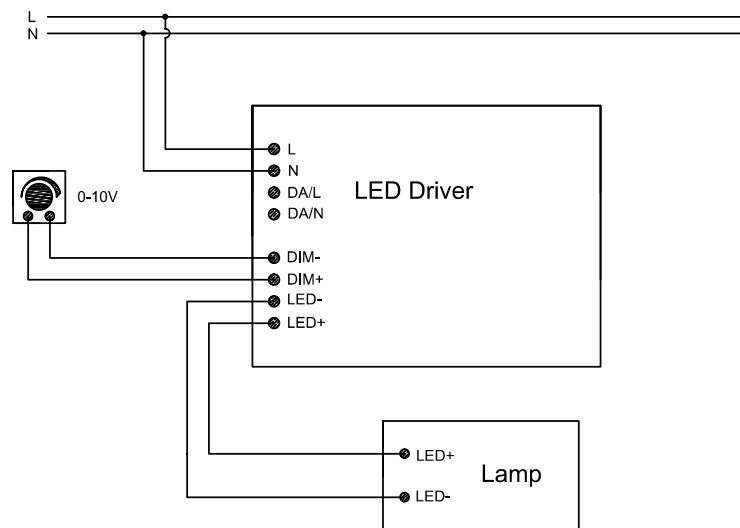
According to EN 61347-1 with increased temperature of 960°C passed.



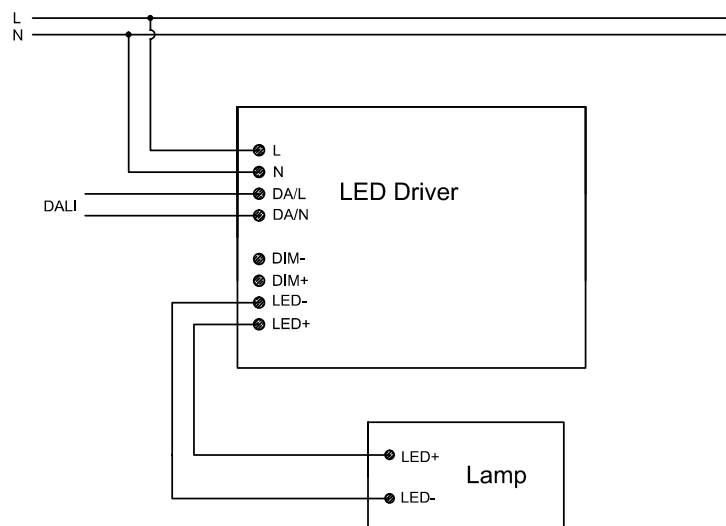
Technical Helpline: +44 (0)1507 328031

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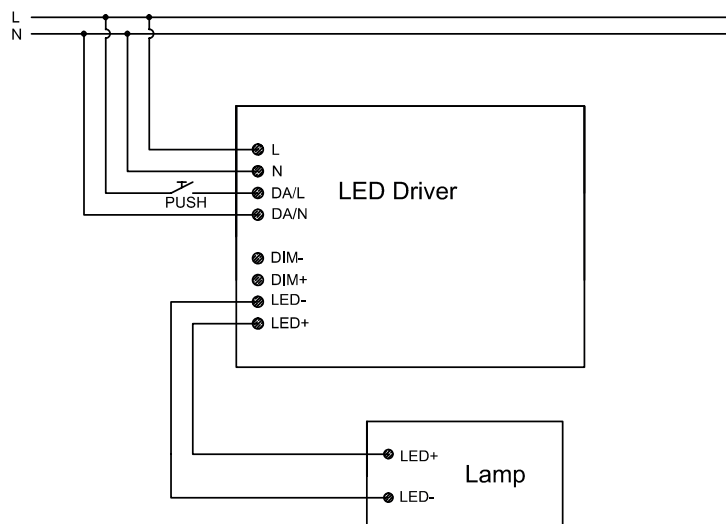
**0-10V Dimming Connection**



**Dali Dimming Connection**




**Push Dimming Connection**



## Push Dim Function

The DALI and SwitchDim functions are automatically selected according to the voltage connected to DALI dimming connection.

**1). DALI Dimming:** The Driver will control the output based on DALI, 5V 

### 2). Switch / Push Way:

Short Press: Press the button quickly and let go, the button will turn the light on/off.

Long Press: Press the reset button and keep it there for more than 10 seconds.

### 3). SwitchDim Function:

Dimming	1s-3s Long press 1s-3s	Long press the reset switch, the lamp will enter into the dimming status, if the previous dimming is bright, then the next dimming will go down. After releasing the reset button, dimming will stop and maintain the current illumination. Dimming range 1%-100%, after power on, the first long press defaults to bright. If the brightness is the maximum brightness, for the first long press, the brightness will go down.
Synchronize all lamp	10s Long press 10s	In the same Switchdim system, if there has any inconsistent for all lamps, long press 10s to turn on all lamps and light the same brightness (50%)
Change fade time	Long press 20s	The fade time affects the dimming speed. The smaller the fade time, the faster the dimming speed. The fade time defaults 3s, when long press 20s, the fade time will be 6s and keep output 100% brightness (when long press to 10s, all lamps will be synchronized and light up 50%); Long press 20s again, the fade change time will change into 3s, the brightness will remain 100% bright if not release the button.