















### Product Description

HED8025 is a DALI-2 DT8 dimmable & color tunable LED driver, with maximum power output of 25W. It comes with Switch-Dim interface by using Push switch (retractive switch). It is ideal for direct projects or new luminaire design for lighting manufactures.




### Features

-  DALI-2 with DALI feedback
-  Switch-Dim (Push switch)
-  PWM 1KHz (1-100%)
-  Insulated terminal cover with cord restraint
-  Active PFC design
-  Logarithmic Dimming
-  Linear Dimming
-  Configurable constant current (CC) output via DIP switches
-  Permanent setting memory, protected against loss of power
-  Loop-in & loop-out terminal for efficient installation
-  Short-circuit Protection
-  Open-circuit Protection
-  Overload Protection
-  5-year warranty, designed for long lifetime up to 50,000 hours

### Output Configuration

HED8025, 1x25W

750mA	● ● ● ●
700mA	○ ● ● ●
600mA	○ ○ ● ●
500mA	● ○ ○ ●
350mA	○ ● ○ ○
300mA	● ○ ○ ○
250mA	○ ○ ○ ○
	1 2 3 4



 Warning: Please make sure the correct current is selected before starting the driver!

## Technical Specifications

Input	
Mains Voltage	220~240VAC 50/60Hz
Mains Current	0.135~0.12A
Power Factor	0.9
Max. Efficiency	88%

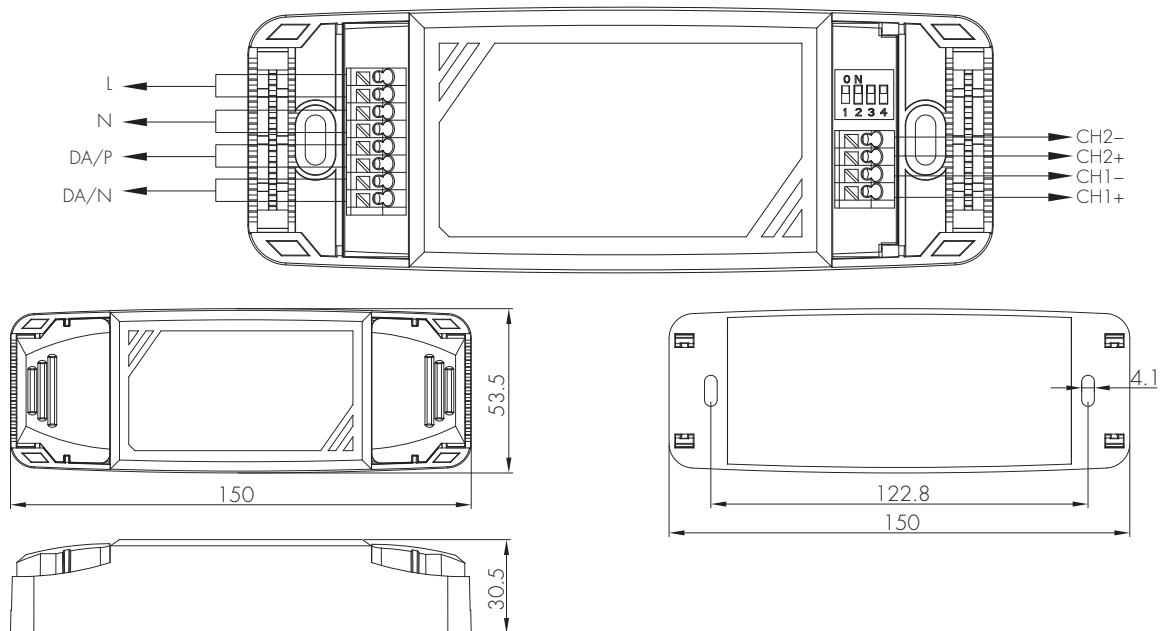
Output	
Ripple Current	<3%
Uout Max.	60V
Turn-on Time	<0.5s
Dimming Interface	Switch-Dim/DALI
Stand-by power	<1W

Max. output power/current/voltage range	
HED8025	2-13W/ 250mA /10-52V
	3-16W/ 300mA /10-52V
	4-18W/ 350mA /10-52V
	5-25W/ 500mA /10-50V
	6-25W/ 600mA /10-42V
	7-25W/ 700mA /10-35V
	8-23W/ 750mA /10-30V

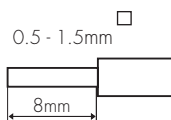
Environment	
Operation Temp.	-20 ~ +45°C
Case Temp. (Max.)	80°C
IP Rating	IP20

Safety and EMC	
EMC Standard	EN55015, EN61547, EN6100-2/3, EN300328, EN301489-1/-17, EN62479
Safety Standard	EN61347-1, EN61347-2-13
Dielectric strength	Input→output: 3000VAC / 5mA / 1min
Abnormal protection	Output short-circuit protection Overload Protection Open-circuit Protection

## Mechanical Structure & Dimensions



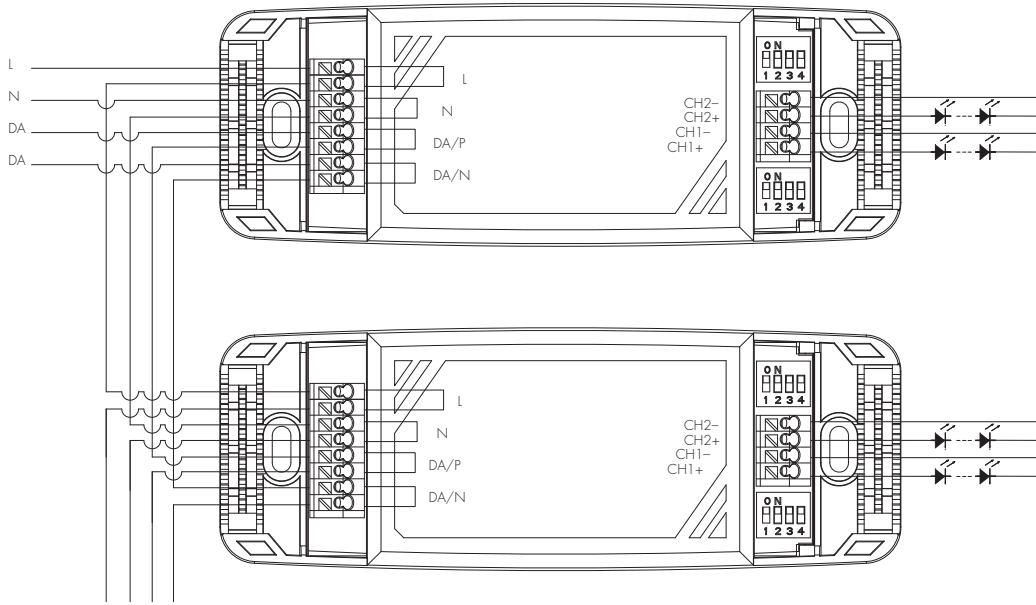
## Wire Preparation



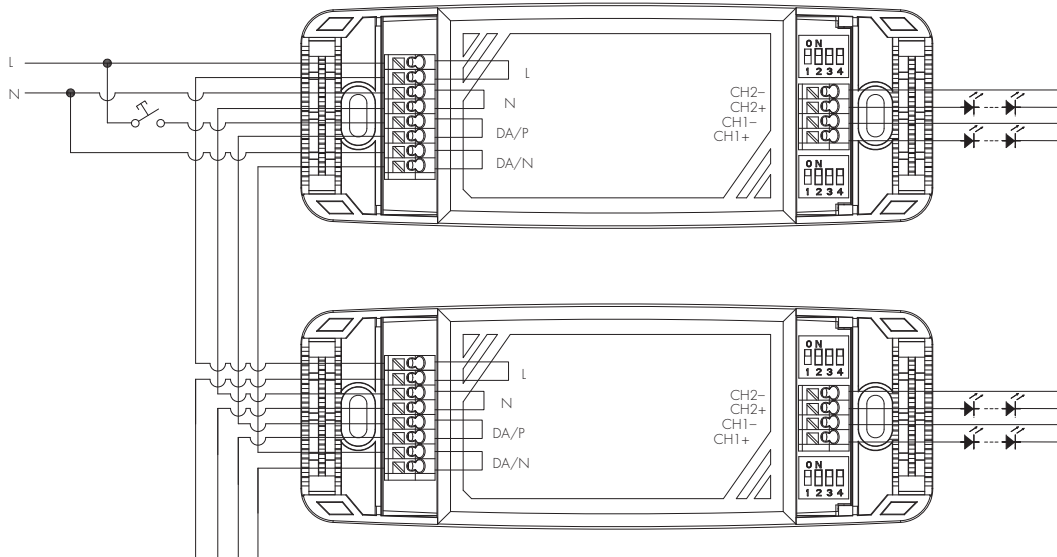
To make or release the wire from the terminal, use a screwdriver to push down the button.

# Wiring Diagram

## Wiring Diagram For DALI



## Wiring Diagram For Switch-Dim



## Loading and In-rush Current

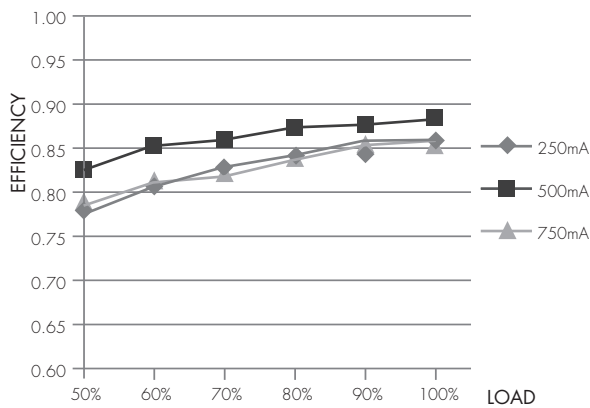
Model	HED8025
In-rush Current (I <sub>max.</sub> )	25.8A
Pulse Time	70 μs

## Circuit Breaker Information

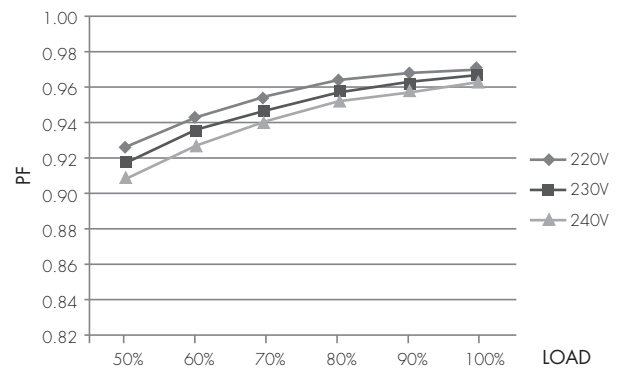
Automatic circuit breaker type	B16A	B10A	B13A	B20A	B25A
HED8025	73	46	59	92	115

The data above is calculated according to the formula: Maximum Amount =  $16 / (P_n / 230)$ . In order to provide a more reliable reference in real application, the data have been revised to take 60% of the number calculated, i.e.  $16 / (P_n / 230) \times 60\%$ . Please kindly take note that the calculation is based on ABB circuit breaker series S200. Actual values may differ due to different types of circuit breaker used and installation environment.

## Performance Characteristics

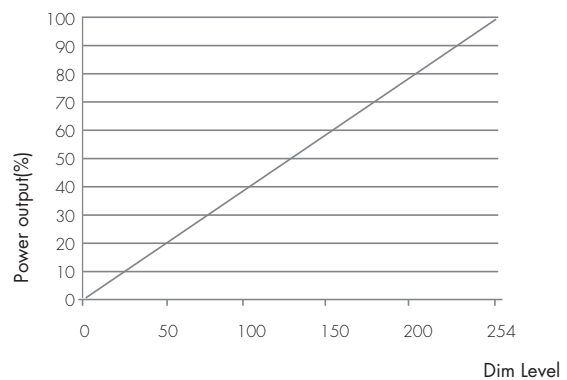
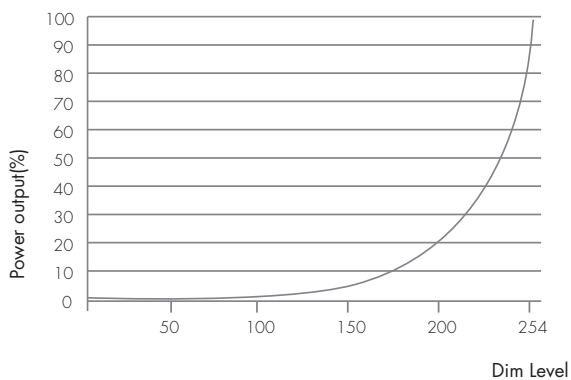


\* Typical Efficiency vs Load

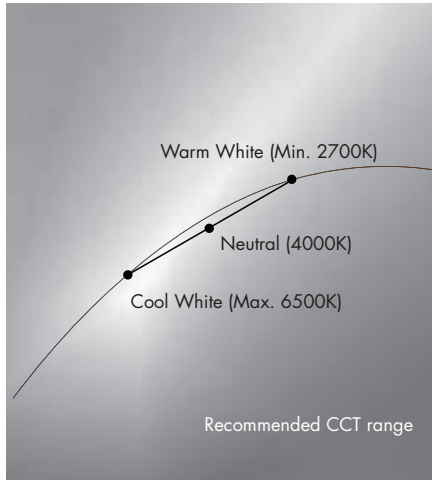


\* Typical Power Factor vs Load

## Dimming Characteristics



## Linear Colour Tuning Profile



## Manual Control via Push-DIM

### \* Colour Tuning

Switch Action

Step 1: Short press (3 times within 3 seconds)

Step 2: Short press (>1 second)

Response

Light starts tuning

Set the desired colour

### \* On/off control and brightness adjustment

Switch Action

Short press (<0.4 second)

Note: short press has to be longer than 0.1s, or it will be invalid.

Long press (>0.4 second)

Response

Toggle light on / off

Toggle dim light / increase/decrease brightness

### Synchronization

Switch Action

Long press (>1.5 seconds)

Response

All lights will dim down to minimum level and CCT is neutral colour.

\* We recommend the number of drivers connected to a switch does not exceed 25 pieces. The maximum length of the wires from push to driver should be no more than 20 meters.

## Additional Information / Documents

1. Regarding precautions for LED driver installation and operation, please kindly refer to [www.hytronik.com/download ->knowledge ->LED Drivers - Precautions for Product Installation and Operation](http://www.hytronik.com/download->knowledge->LED%20Drivers%20-%20Precautions%20for%20Product%20Installation%20and%20Operation)
2. Data sheet is subject to change without notice. Please always refer to the most recent release on [www.hytronik.com/products/bluetooth technology ->Bluetooth Drivers](http://www.hytronik.com/products/bluetooth%20technology->Bluetooth%20Drivers)
3. Regarding Hytronik standard guarantee policy, please refer to [www.hytronik.com/download ->knowledge ->Hytronik Standard Guarantee Policy](http://www.hytronik.com/download->knowledge->Hytronik%20Standard%20Guarantee%20Policy)