

## DALI-2 Constant Current LED Driver for Track System

### HED5040

Tunable White & Constant Current



### Product Description

HED5040 is a DALI-2 dimmable LED driver for the track system, with 3-phase dial and maximum power output of 40W. The installation only requires simple insertion into the track. HED5040 has a DALI-2 dimming interface, is ideal for both direct track light projects and new luminaires designed for lighting manufacturers.



### Hardware Features

Flicker free (1-100%)

Tunable white

Active PFC design

Logarithmic Dimming

Linear Dimming

Configurable constant current (CC) output via DIP switch

Open-circuit Protection

Short-circuit Protection

Overload Protection

5-year warranty

### Technical Specifications

Input	
Mains Voltage	220~240VAC 50/60Hz
Mains Current	0.215~0.195A
Power Factor	0.95
Max. Efficiency	88%
Psb/Pno	<0.5W

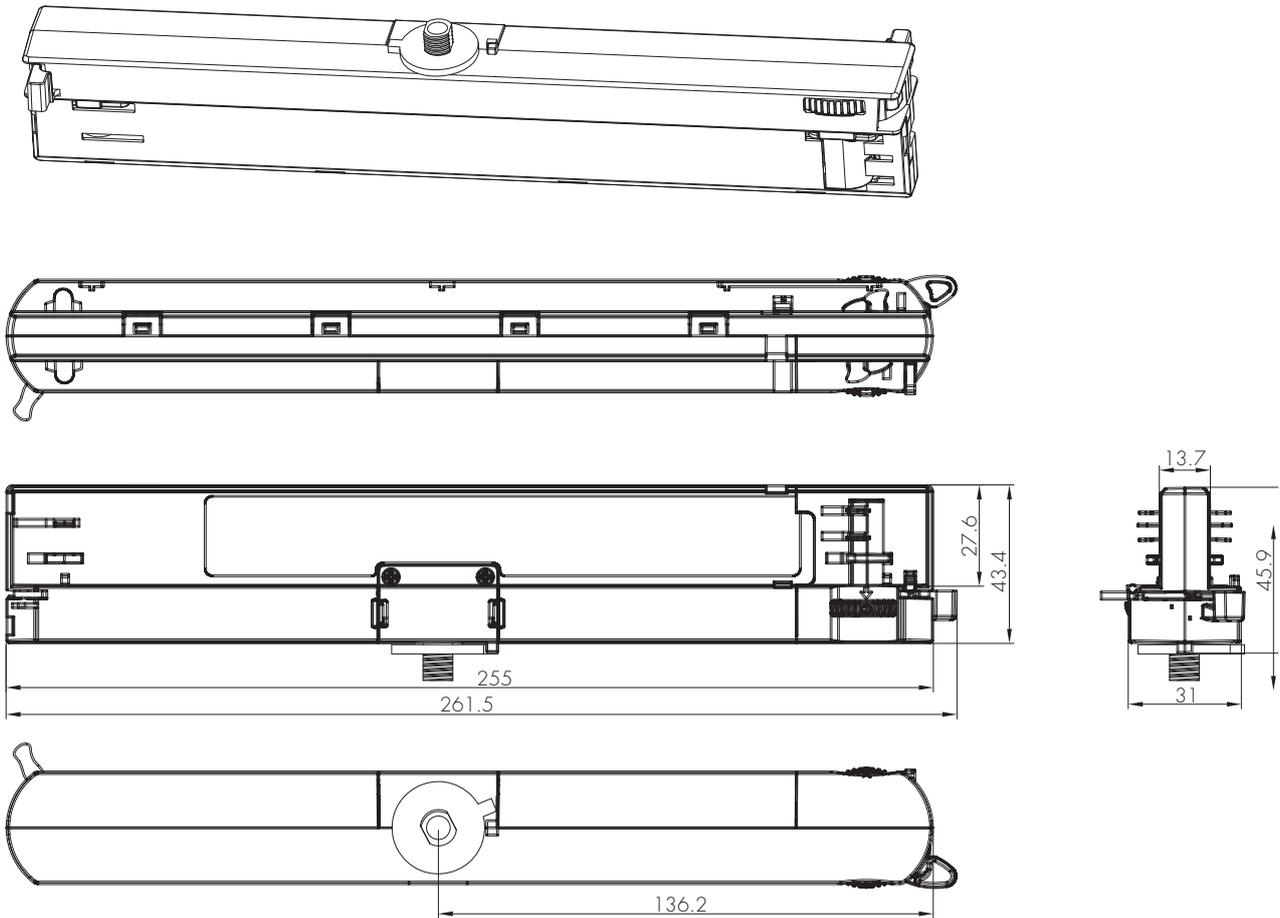
Output	
Output Current	350mA~1050mA
Output Voltage	6~42V
Uout Max.	60VDC

Environment	
Operation Temp.	-10 ~ +35°C
Case Temp. (Max.)	85°C
Storage temperature	-40°C ~ +70°C
Relative humidity	10~ 90%
IP Rating	IP20

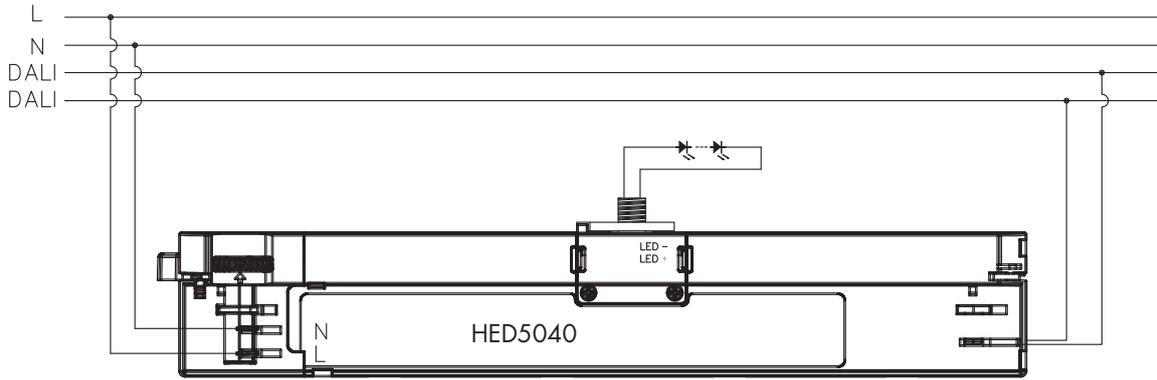
Safety and EMC	
EMC Standard	EN55015, EN61547, EN61000-3-2/-3-3
Safety Standard	EN62493, EN61347-1, EN61347-2-13
Certification	CE, RED, RCM, UKCA
Abnormal protection	Output short-circuit protection Overload Protection Open-circuit Protection

Max. output power/current/voltage range	
HED5040	2-15W/ 350mA /6-42VDC
	2.5-17W/400mA/6-42VDC
	2.5-19W/450mA/6-42VDC
	3-21W/500mA/6-42VDC
	3-23W/550mA/6-42VDC
	3.5-25W/600mA/6-42VDC
	4-27W/650mA/6-42VDC
	4-29W/700mA/6-42VDC
	4.5-32W/750mA/6-42VDC
	5-34W/800mA/6-42VDC
	5-36W/850mA/6-42VDC
	5.5-38W/900mA/6-42VDC
	6-40W/950mA/6-42VDC
6-40W/1000mA/6-40VDC	
6-41W/1050mA/6-39VDC	

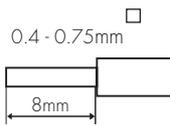
## Mechanical Structure & Dimensions



## Wiring Diagram



## Wire Preparation



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

## Output Configuration

1050mA	●	●	●	●
1000mA	●	●	●	○
950mA	●	●	○	●
900mA	●	●	○	○
850mA	●	○	●	●
800mA	●	○	●	○
750mA	●	○	○	●
700mA	●	○	○	○
650mA	○	●	●	●
600mA	○	●	●	○
550mA	○	●	○	●
500mA	○	●	○	○
450mA	○	○	●	●
400mA	○	○	○	●
350mA	○	○	○	○
	1	2	3	4



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

## Loading and In-rush Current

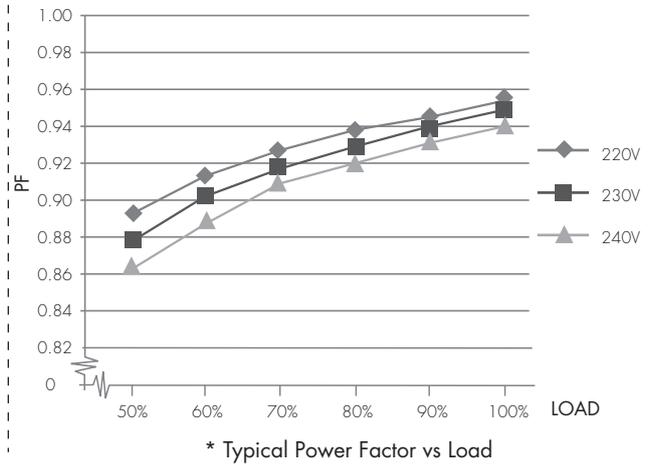
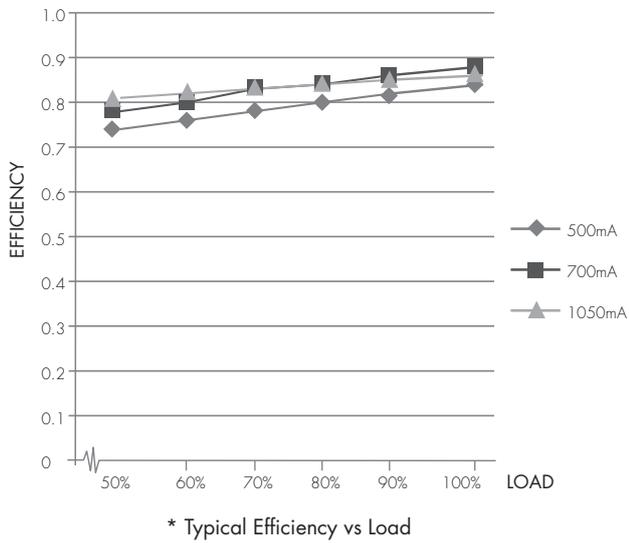
Model	HED5040
In-rush Current (I <sub>max.</sub> )	7.5A
Pulse Time	30 μs

## Circuit Breaker Information

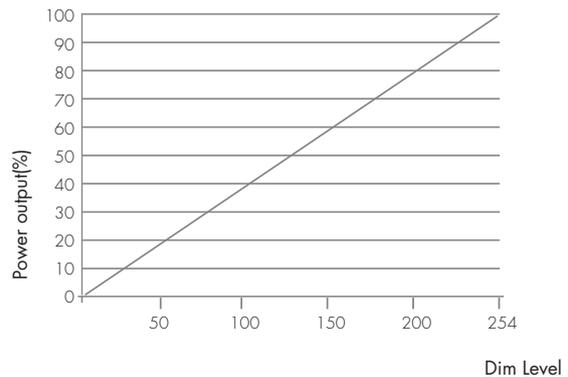
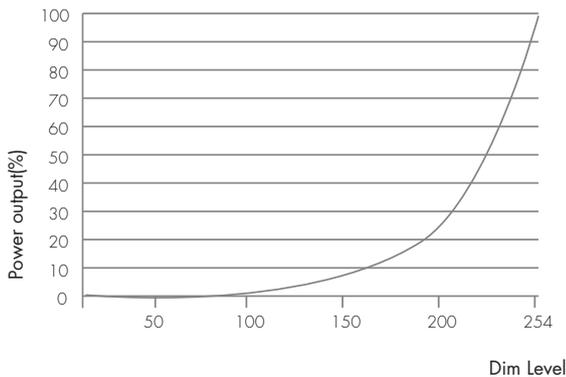
Automatic circuit breaker type	B16A	B10A	B13A	B20A	B25A
HED5040	47	29	38	58	73

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



## Dimming Characteristics



## 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. 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)