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LED LICHTTECHNIK
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EGP20D-1HMC-0

Summary

EGP20D-1HMC-0 is a 20W AC/DC constant current mode output LED driver featuring the multiple levels selectable by DIP switch and complies with DALI standard protocol IEC 62386. EGP20D-1HMC-0 can be connected to DALI main controller or Touch DIM to a chieve a smooth dimming effect.

Product Features

·Single channel output, output current level selectable by DIP S.W.
·Meet DALI Protocol IEC 62386
·Support Touch-DIM function
·High efficiency up to 86 %
·Built-in active PFC function
·Dimming effect smooth, no flicker
·Protections: Short circuit, over load,
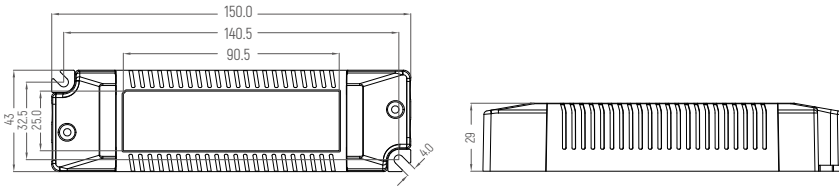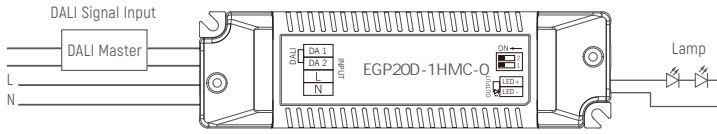·Suitable for indoor LED lighting application, such as down light, panel light, and so on

DALI 2

Application

| Downlight | Panel Light | Spotlight | Ceiling Light | Decorative Light | Floor Light | Flood Light |

Technical Paramaters

Model	EGP20D-1HMC-0	
Input	Efficiency	>86%@230VAC,Full load
	Voltage	220VAC-240VAC
	Frequency Range(Hz)	50/60Hz
	Power Factor	≥0.95@230VAC,Full load
	THD(full load)	<10%@230VAC, Full load
	AC Current(max)	0.12Amax@230VAC
	Standby power	<0.5W
	Inrush Current(max)	Cold start,18A(twidth=14us measured at 50% Ipeak)@230VAC
Output	Current(mA)/Voltage (VDC) Power(W)	350mA/9-40VDC/14W 500mA/9-40VDC/20W 550mA/9-36VDC/19.8W 700mA/9-28VDC/19.6W
	Ripple Current	<3%
	Channel	1
	Current Tolerance	±5%
	No load output voltage	50V Max
	Turn on delay Time	<1.5s, at230Vac
Function	Dimming Type	DALI /Touch DIM
	Dimming Range	1%-100% Dimming to off
Protection	Short Circuit	Close output, recovers automatically after fault removed
	Over Load	When the output voltage is exceeded, the output current decreases and, recovers automatically when the load is reduced.
Others	Working Temp.	-20°C~50°C
	Storage Temp., Humidity	-40°C~85°C, 20-90%RH
	tc	90°C
	Material	PC
	IP Rating	IP20
	Lifetime	50,000h@tc:80°C
	Warranty Condition	2 Years
	Switch Cycle	>100,000 tims
	Packing(weight)	Net weight: 125g±5%/PCS; 50PCS/Carton; 6.65kg±5%/Carton; Carton Size: 319*254*136mm(L*W*H)
	Dimension	150*43*29mm （L*W*H）

Current Selection Table

		1 2			
ON OFF		350mA	500mA	550mA	700mA
		9-40V	9-40V	9-36V	9-28V

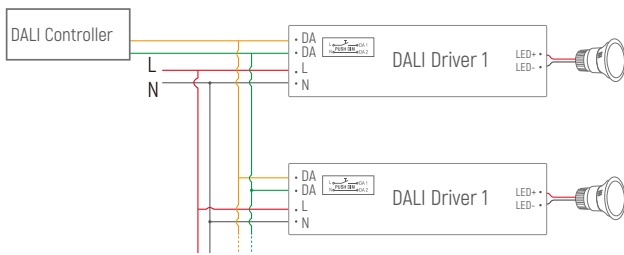Remark: Function default setting is: 350mA (@switch are all OFF state)
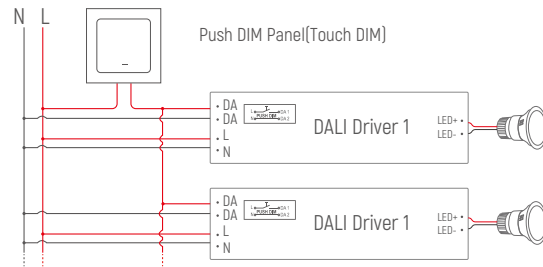
Dimension(mm)

DALI Wiring

DALI Diagram
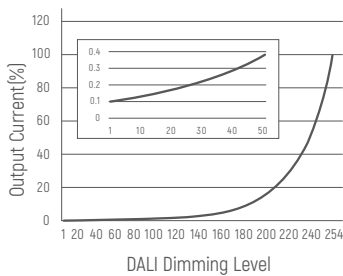

Push DIM(Touch DIM) Diagram

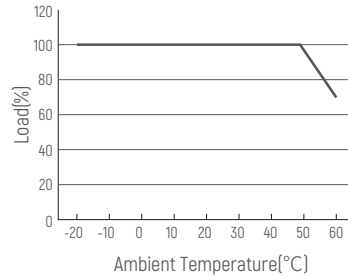Remark: Only use open push button without indicator light. Maximum cable length between each Unit: 20 meters.

Push DIM Function

1. Press the Push DIM（Touch DIM）switch for 8s or more,the driver can be controlled via Push DIM switch.

2. Short press the Push DIM（Touch DIM）switch (<0.5s) to control the lamp on or off.

3. Long press the Push DIM（Touch DIM) switch (>0.5s) to dim the brightness of light. The dimming direction will change every time after pressing switch.

4. Double-click the Push DIM（Touch DIM）switch (<0.3s), then all lamps connected on the device will be set maximum brightness.

5. The brightness adjustment range is 1%-100%, and the light can be turned off through short pressing when doing the adjustment with long pressing Push DIM（Touch DIM）switch.

6. With the Power off memory function, the power-down state will be recovered when power on again.

Dimming Curve

DALI Dimming Level

Derating Curve

Ambient Temperature(°C)

Cautions

1.This product should be installed by qualified personnel.

2.This product is non waterproof, need to avoid sun and rain.In case of outdoor use, please ensure it is mounted in a water proof enclosure.

3.Good heat dissipation conditions extend product life. Please install the product in a well-ventilated environment.

4.Please make sure LED power supply output voltage, current is used to meet the product requirements.

5.Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.

6.Due to safety concerns, PVC or rubber cord of 0.75- 1.5mm² is recommended for input and output terminal(s)(excluding signal terminals). Flat power cord is not suitable.Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.

7.In case of malfunction, do not repair it yourself.

※ The contents of this manual are updated without prior notice. If the function of the product you are using is inconsistent with the instructions, the function of the product shall prevail.Please contact us if you have any questions .