LCP40AD-1H24V



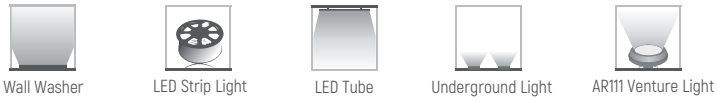
Summary

LCP40AD-1H24V is a constant Voltage output mode LED driver. Support DALI dimming function, Touch DIM (Push DIM) function, 0/1-10V Dimming function. The output and dimming circuit are also completely in accordance with the new regulations with isolation to ensure the users and luminaire system during installation.

Product Features

·Single channel output
·Support DALI-2 dimming function, Touch DIM (Push DIM) function, 0/1-10V Dimming function
·Dimming range: 0.1-100%, Dimming effect smooth, no flicker
·Protections: Short circuit, Over load
·Suitable for indoor LED lighting application

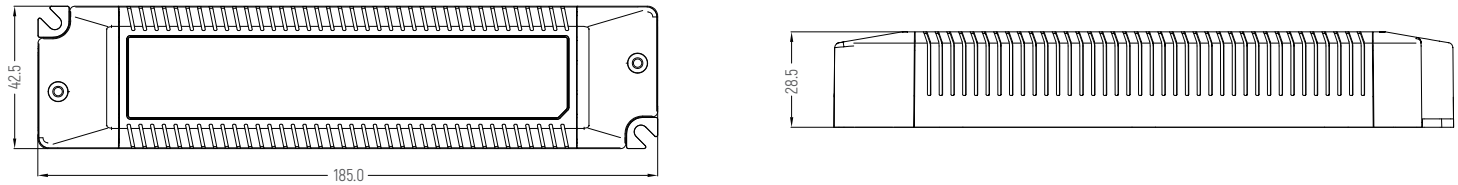
Application



Technical Paramaters

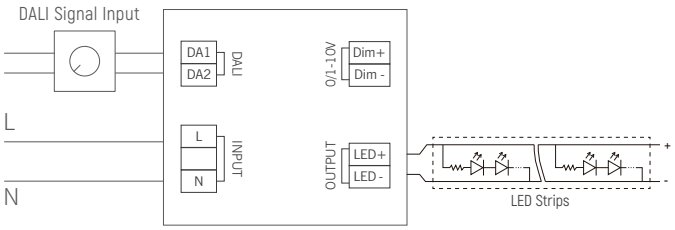
Model	LCP40AD-1H24V	
Input	Efficiency	≥85%@230VAC, Full load
	Voltage	220VAC-240VAC
	Frequency Range(Hz)	50/60Hz
	Power Factor	>0.95@230VAC, Full load
	THD(full load)	<10%@230VAC
	AC Current(max)	≤0.27Amax@230VAC
	Standby power	<1W
	Inrush Current(max)	Cold start, <30A@230VAC
Output	Current/Voltage/Power	1.65A/24V/40W
	Ripple Current	<3%
	Channel	1
	Voltage Tolerance	±5%
	Turn on delay Time	<0.5s, at 230Vac
Function	Dimming Type	DALI/Touch DIM/1-10V/Adjustable resistance /PWM
	Dimming Range	0.1%-100% Dimming to off
Protection	Short Circuit	Connect the LED power positive output and LED negative output terminal, together
	Over Load	When the output voltage is exceeded, the output current decreases and, recovers automatically when the load is reduced.
Safety & EMC	Surge	L-N>1KV
	Withstand Voltage	I/P-O/P: 3750VAC/1min/10mA; I/P-E: 1875VAC/1min/10mA
	DALI Standard	IEC 62386-101: 2014, IEC 62386-102: 2014; IEC 62386-207: 2009, DALI 2.0
	Safety Standards	EN61347-1, EN61347-2-13
	EMC Eission	EN55015, EN61000-3-2, EN61000-3-3
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547
Others	Working Temp., Humidity	-20°C~50°C, 20-50%RH
	Storage Temp., Humidity	-40°C~85°C, 5-70%RH
	Tc	90°C
	Material	PC
	IP Rating	IP20
	Lifetime	50,000h@tc:80°C
	Warranty Condition	5 Years
	Switch Cycle	>25,000 tims
	Pack Information	Net weight: 151g±5%/PCS; 50PCS/Carton; 8.05kg±5%/Carton; Carton Size: 430*306*168mm(L*W*H)
	Dimension	185*42.5*28.5mm(L*W*H)

Dimension(mm)

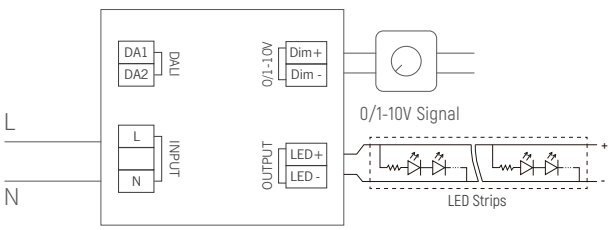


Wring Diagram

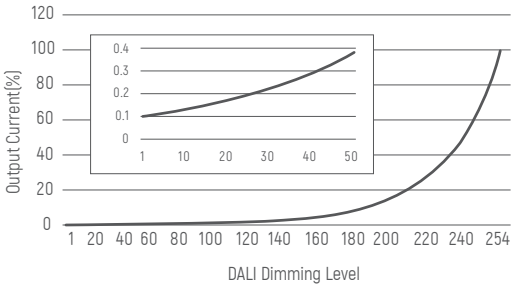
DALI

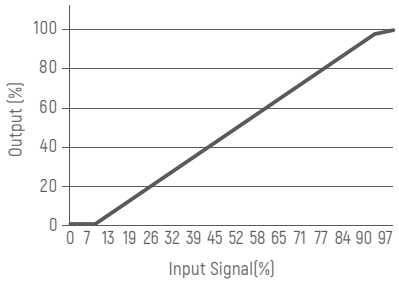


0/1-10V

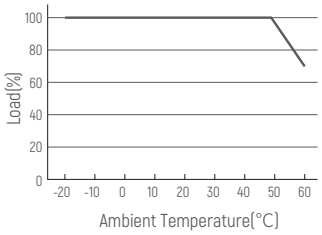


Dimming Curve

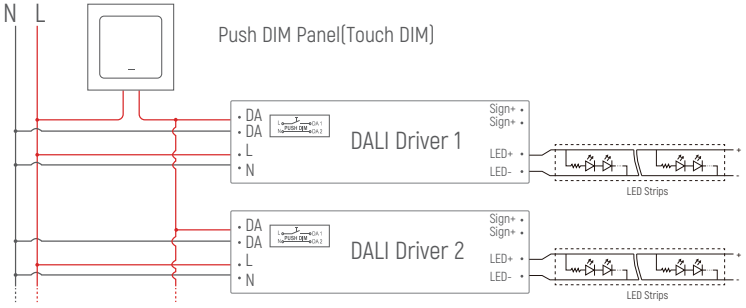




Derating Curve



Touch DIM(Push 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 Touch DIM (Push DIM) switch for 8s or more,the driver can be controlled via Push DIM switch.
2. Short press the Touch DIM (Push DIM) switch (<0.5s) to control the lamp on or off.
3. Long press the Touch DIM (Push DIM) switch (>0.5s) to dim the brightness of light. The dimming direction will change every time after pressing switch.
4. Double-click the Touch DIM (Push 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 switch.
6. With the Power off memory function, the power-down state will be recovered when power on again.

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 0.75-2.5mm2 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.