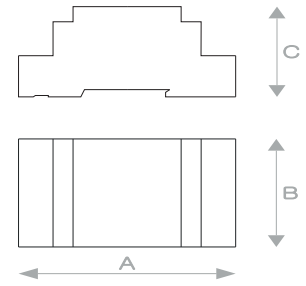# LEF
Energy Transformation

INSTRUCTIONS
Code: LECV1248D4CH
4 CHANNELS DIMMING INTERFACE 12-24-48Vdc

Brightness regulator for LED modules 12-24-48Vdc
Brightness adjustment through:
-DALI signal
MASTER function through DMX512 digital signal
Device for independent mounting
DIN rail plastic case (4 modules)
Electric class protection II
Protection degree IP20

CODICE CODE	TENSIONE DI INGRESSO INPUT VOLTAGE (Vdc)	TENSIONE DI USCITA OUTPUT VOLTAGE (Vdc)	CORRENTE DI USCITA PER CANALE OUTPUT POWER BY CHANNEL (A)				POTENZA DI USCITA PER CANALE OUTPUT POWER BY CHANNEL (W)			COMANDO COMMAND	USCITA DI SEGNALE SIGNAL OUTPUT BY CHANNEL	CC CV	PESO WEIGHT (g)	DIMENSIONI DIMENSIONS (mm)			
			CH1	CH2	CH3	CH4	@12Vdc	@24Vdc	@48Vdc					A	B	C	D
LECV1248D4CH	12-24-48	12-24-48	8	8	8	8	96	192	384	DALI	DMX (CH1) (CH2) (CH3) (CH4)	CV	100	90	71	58	–

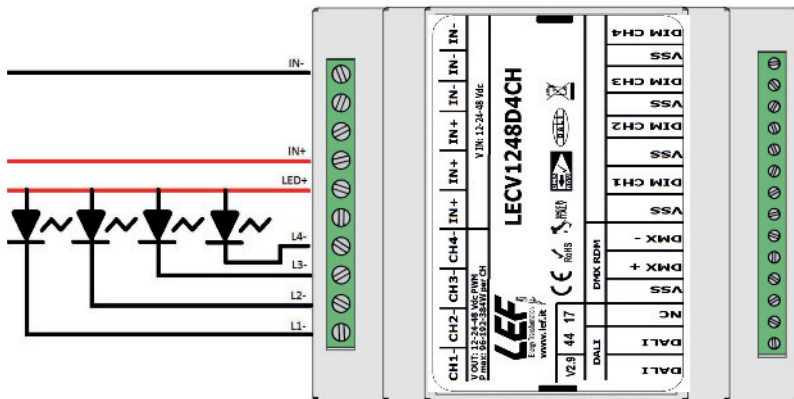## DEVICE POWER SUPPLY AND CONNECTION TO LED MODULE

Fig.1

The dimmer must be supplied according to the polarity shown in the diagram through DC IN (+ and -) terminals.
If the polarity is inverted, the device will not suffer any damage.
The LED load connection to the dimmer (constant voltage output-common anode) must be completed using L IN+, CH1-, CH2-, CH3- and CH4- terminals as in the diagram.
In single-channel mode, it is recommended to short circuit CH1-,CH2-, CH3-, CH4- poles to evenly distribute the load.

OPERATING MODE

The dimmer converts the data received from the field (DALI signal) into DMX-512/RDM format on the channels 1-2-3-4.
The device has a MASTER function through digital DMX512 signal.

TECHNICAL FEATURES

Input voltage range: 12-24-48Vdc

Output voltage range: 12-24-48Vdc

Protection against reversed polarity (RPP)

Open circuit protection (OCP)

Overvoltage protection (OVP)

Protection against overtemperature (OTP)

Short circuit protection (SCP)

Operating ambient temperature: Ta -20°C ÷ 50 °C

ATTENTION:
The installation of the product must be followed by qualified personnel.

If the product is used for purposes other than the original ones or if it is connected incorrectly, LEF Lighting S.R.L. will not accept any responsibility for damages caused.

Reference Standards
EN 55015
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-13
EN 61547
EN 62493

Use Qrcode to download the instruction sheet on your smartphone/tablet.

PRODUCT TO BE DISPOSED DIFFERENTLY FROM URBAN WASTE

CE

SELV

IP20

ta MAX 50°C
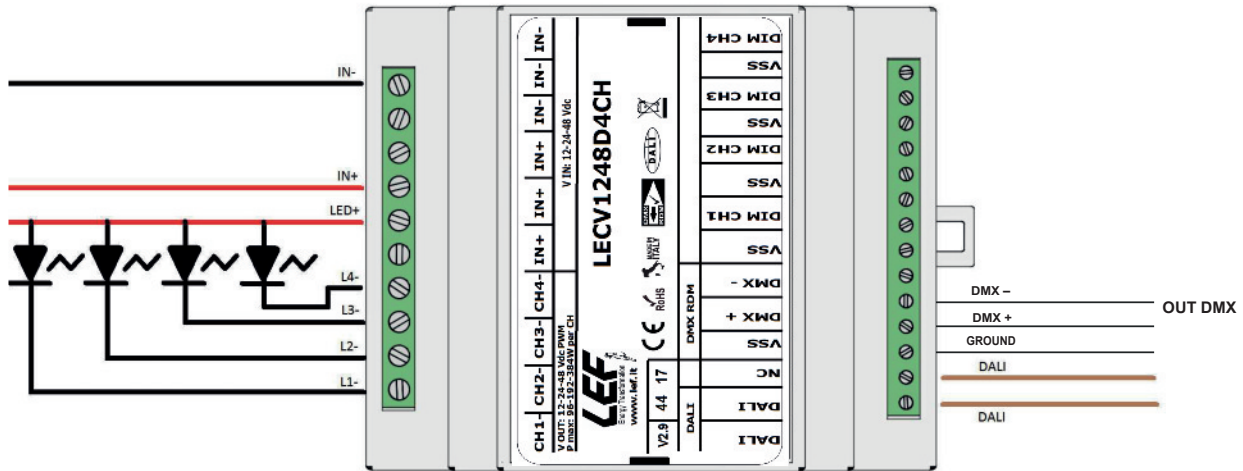
384 Watt

DC 12-24-48V

CV

DIN 4

MADE IN ITALY

Fig.2

In this mode, the device LECV1248D4CH operates as DALI 4 channels-DIMMER
The device is recognized during addressing process as 4 completely independent DALI devices.
The max current absorbed by the DALI bus is about 2mA.

In this mode, the parameters received from the DALI bus are also sent to the DMX512 / RDM bus on the channel set:

1ST DEVICE DALI -> DMX512 ADDRESS 1
2ND DEVICE DALI -> DMX512 ADDRESS 2
3RD DEVICE DALI -> DMX512 ADDRESS 3
4TH DEVICE DALI -> DMX512 ADDRESS 4

The basic DMX address (DEFAULT 1) can be set using RDM protocol or by using the programmer (optional) PROGLECVCC.
Refer to the programmer's manual for operating modes.

WARNING: IN THIS MODE, BLE (Bluetooth) CONTROL IS DISABLED.

Here are the standard DALI commands implemented:

DIRECT ARC POWER	QUERY STATUS
OFF	QUERY BALLAST
UP	QUERY LAMP POWER ON
DOWN	QUERY LIMIT ERROR
STEP UP	QUERY RESET STATE
STEP DOWN	QUERY MISSING SHORT ADDRESS
RECALL MAX LEVEL	QUERY VERSION NUMBER
RECALL MIN LEVEL	QUERY DEVICE TYPE
STEP DOWN AND OFF	QUERY PHISICAL MINIMUM LEVEL
ON AND STEP UP	QUERY POWER FAILURE
GO TO SCENE (0-15)	QUERY CONTENT DTR1
RESET	QUERY CONTENT DTR2
STORE ACTUAL LEVEL IN THE DTR	QUERY ACTUAL LEVEL
STORE THE DTR AS MAX LEVEL	QUERY MAX LEVEL
STORE THE DTR AS MIN LEVEL	QUERY MIN LEVEL
STORE THE DTR AS SYSTEM FAILURE LEVEL	QUERY POWER ON LEVEL
STORE THE DTR AS POWER ON LEVEL	QUERY SYSTEM FAILURE LEVEL
STORE THE DTR AS FADE TIME	QUERY FADE TIME/FADE RATE
STORE THE DTR AS FADE RATE	QUERY SCENE LEVEL (0-15)
STORE THE DTR AS SCENE (0-15)	QUERY GROUPS (0-7)
REMOVE FROM SCENE (0-15)	QUERY GROUPS (8-15)
ADD TO GROUP (0-15)	QUERY RANDOM ADDRESS H
REMOVE FROM GROUP (0-15)	QUERY RANDOM ADDRESS M
STORE DTR AS SHORT ADDRESS	QUERY RANDOM ADDRESS L

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PRODUCT TO BE DISPOSED DIFFERENTLY FROM URBAN WASTE

CE — SELV — IP20 — ta MAX 50°C — 384 Watt — DC 12-24-48V — CV — DIN 4

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