

USER GUIDE

LE7524DP, LE10024DP, LE15024DP, LE20024DP

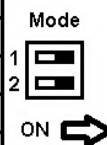


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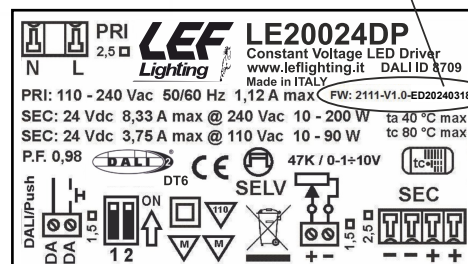
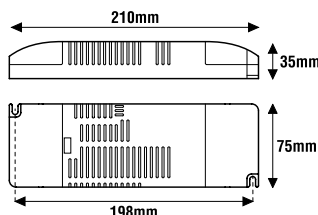
General Characteristics

Plastic case
Driver for independent mounting
Electric class protection II
Protection degree IP20

1	2	Mode
OFF	OFF	DALI / PUSH 230 Vac
OFF	ON	PUSH 24 Vdc
ON	OFF	0_10V
ON	ON	1_10V



Codice	DALI Product ID	GTIN
LE10024DP	8071	8054521530050
LE15024DP	8717	8054521532368
LE20024DP	8709	8057760696037



DALI functionality
Simplified "ED"

CODICE CODE	Tensione di ingresso Input voltage (Vac)	Frequenza di rete Input frequency (Hz)	Potenza di uscita Output power (W)				Comando Command	Tensione di uscita Output voltage (Vdc)	Corrente di uscita Output current (mA)		PFC (λ)	CC CV	Peso Weight (g)
			@110V		@230V				@110V	@230V			
			MIN	MAX	MIN	MAX							
LE7524DP	110-240	50÷60	10	60	10	75	PUSH DALI 0-10V 1-10V POT47KΩ	24	2500	3120	0,98	CV	380
LE10024DP						100				4160			
LE15024DP						150				6250			
LE20024DP						200				8330			

Technical Features

Input voltage range 110-240Vac
Input frequency 50÷60Hz
Constant voltage output 24Vdc
Output Power 10W@230Vac (10W@110Vac)

Brightness adjustment through:

- push-button (PUSH 230Vac)
- push-button (PUSH 24Vdc)
- DALI signal
- 0-10V signal
- 1-10V signal

- 47Kohm potentiometer

(setting by dip-switch)

Factory setting: DALI input active.

«LEVEL MEMORY» and «STATUS MEMORY» function

Synchronization of multiple power supplies via cable (max 10)

Energy Efficiency (EE):

- 91% (LE7524DP, LE10024DP)
- 92% (LE20024DP)
- 93% (LE15024DP)

Open circuit protection (OCP)

Protection against overtemperature (OTP)

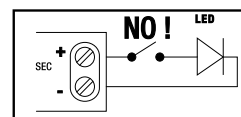
Short circuit protection (SCP)

Power factor correction (PFC) $\lambda \geq 0,98$

Operating ambient temperature T_a -10°C ÷ +40°C

Max case temperature on T_c :

- 70°C (LE7524DP, LE10024DP)
- 80°C (LE15024DP, LE20024DP)



N.B.

Device not suitable for
no-load operation.

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

MADE IN ITALY



PRODUCT TO BE DISPOSED DIFFERENTLY
FROM URBAN WASTE
AEE identification nr.IT18040000010321



LEF LIGHTING S.R.L. | www.leflighting.it

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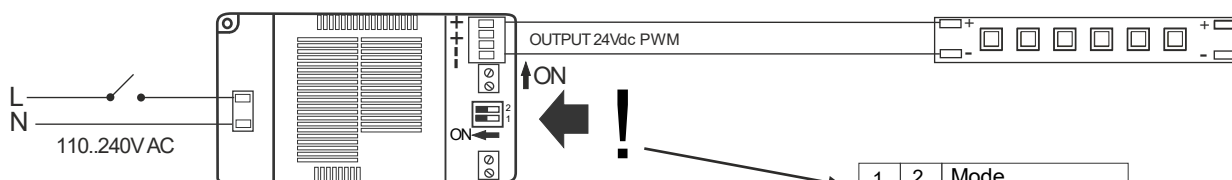
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CONNECTION OF A SINGLE POWER SUPPLY

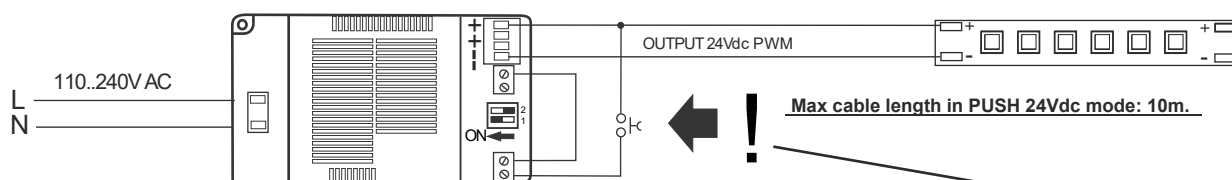
ON/OFF Mode



1

1	2	Mode
OFF	OFF	DALI/PUSH 230V

PUSH 24Vdc Mode

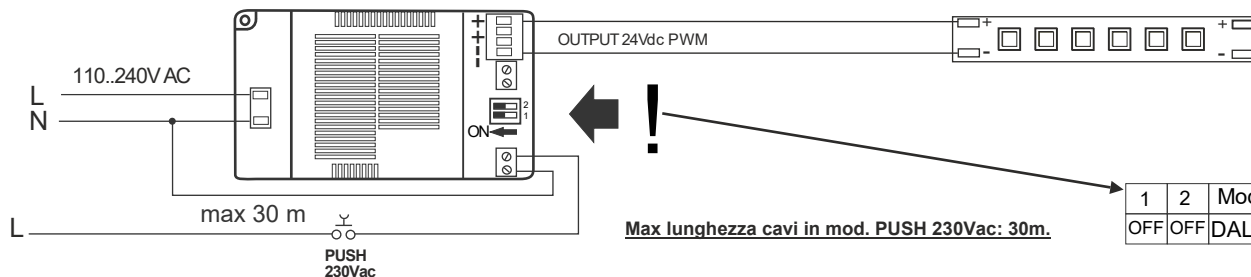


2

1	2	Mode
OFF	ON	PUSH 24Vdc

Push-button setting: Remove power in order to to change Dip-Switch setting.
Set the Dip-Switch configuration as in the table on the right.

PUSH 230Vac Mode



3

1	2	Mode
OFF	OFF	DALI/PUSH 230V

Factory setting: DALI input active

Button input setting: When the PUSH-BUTTON is pressed for the first time, the product remains set into PUSH-BUTTON mode (PUSH 230Vac)

Warnings:

1. Always pay attention to the polarity of the secondary cable.
2. Put the system far away from heat sources and in well aerated places.
3. Minimum distance from LED: 10cm.
4. Thermal protection: if the temperature exceeds the limit values, the driver switches OFF and, after few seconds, it switches ON again.
5. Avoid short circuit on the secondary side and give tension only after all LEDs have been connected
6. Lock the terminals carefully and do not with excessive power.
7. LEDs connection: use a 0,5... 1,5mmq cable for a maximum length of 10m; use a 2,5mmq cable for lengths: 10-30m.
8. Input wiring: use a cable 2 x0,75 mmq minimum.
9. **HEAVY USE:** the load must be lower than the maximum indicated by 10% to 20% for all kinds of devices.
10. Check the maximum working temperature at Tc point.

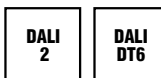
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SYNCHRONIZATION OF MULTIPLE POWER SUPPLIES

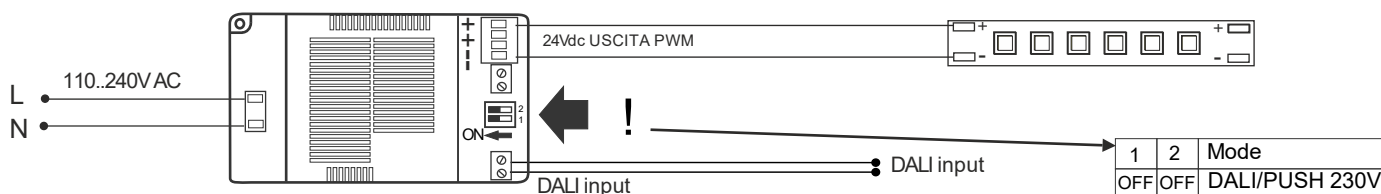
DALI mode



4

Factory setting: DALI input active.

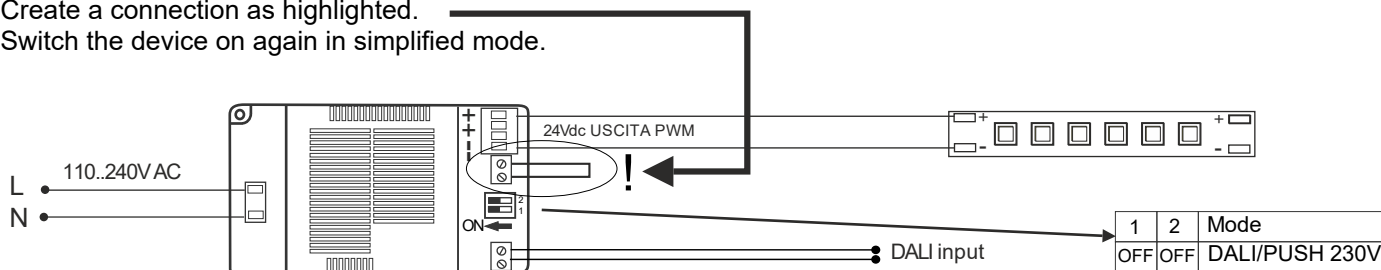
DALI setting: The first time a DALI signal is received, the product remains set to receive DALI signals.



Simplified DALI mode (“ED” function)

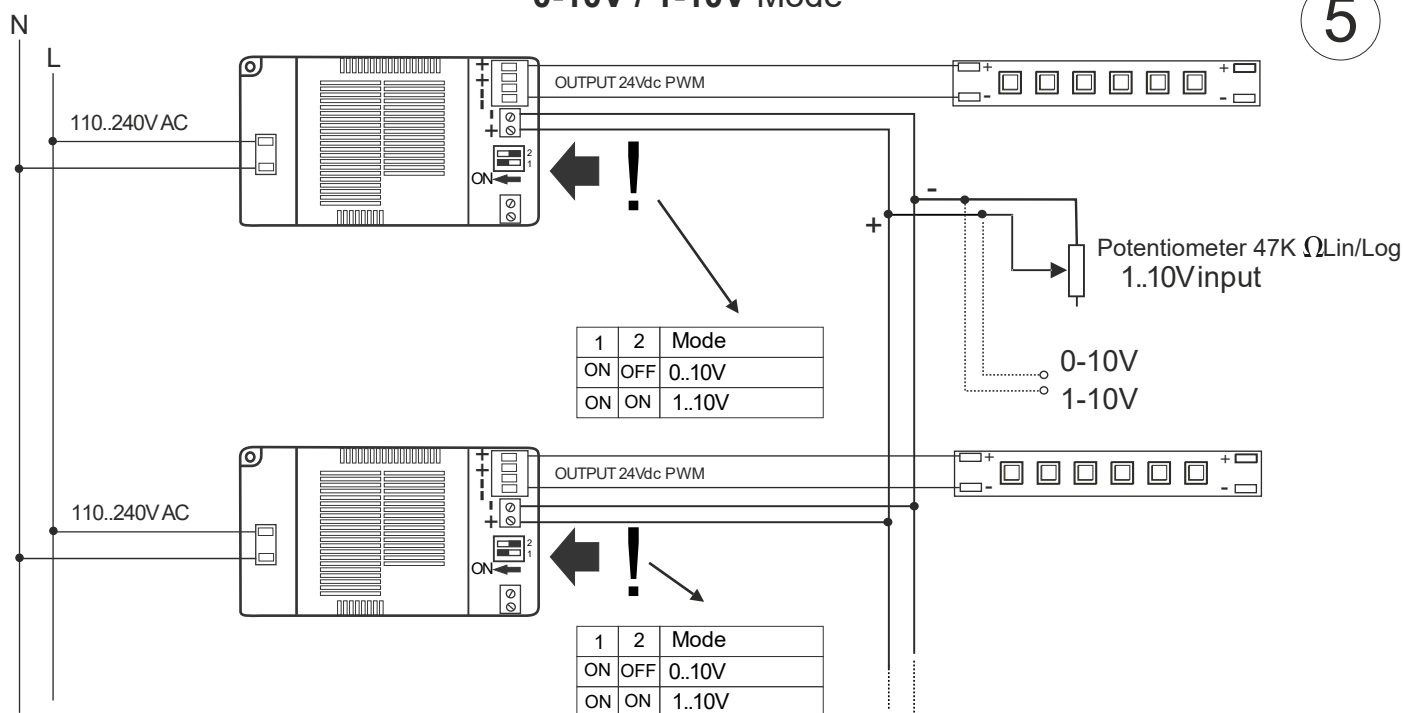
In case of problems with DALI home automation systems, **DALI1** systems, reporting of non-existent faults or in case of load different from standard LED strips, for example LED bulbs some functions can be excluded by communicating with the master in a simplified way and avoiding problems.

- 1) Turn off the device, set the dip switches to DALI mode (OFF-OFF).
- 2) Create a connection as highlighted.
- 3) Switch the device on again in simplified mode.



0-10V / 1-10V Mode

5



0-10V and 1-10V setting: Remove power in order to change Dip-Switch setting.
Set the Dip-Switch configuration as in the above present table.

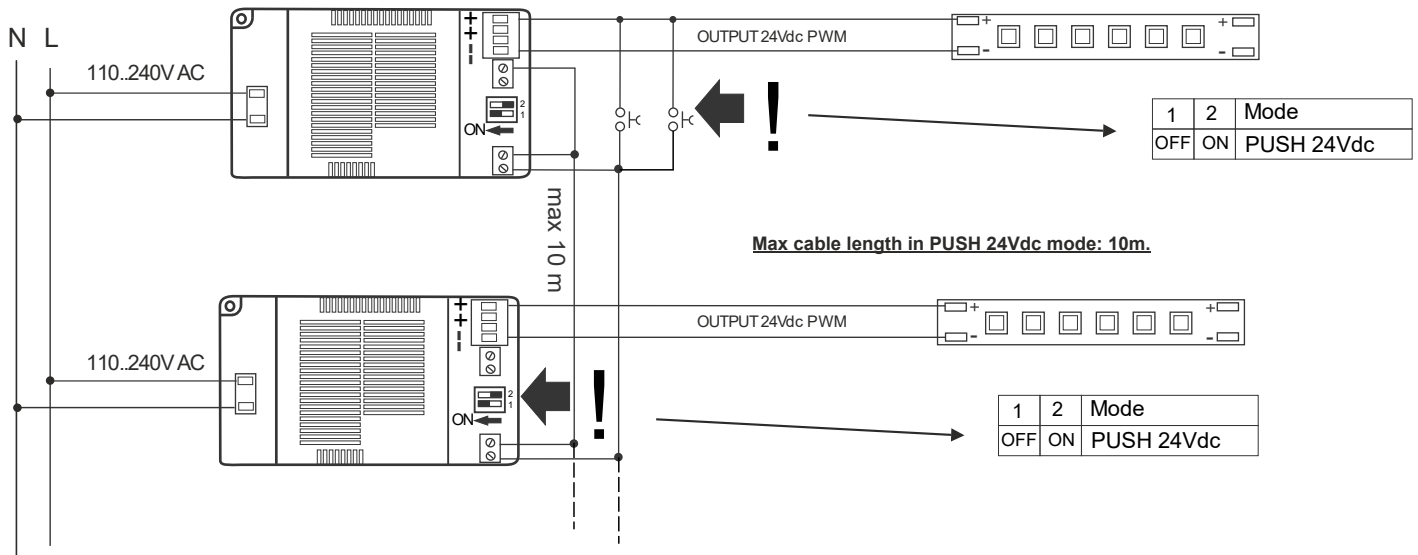
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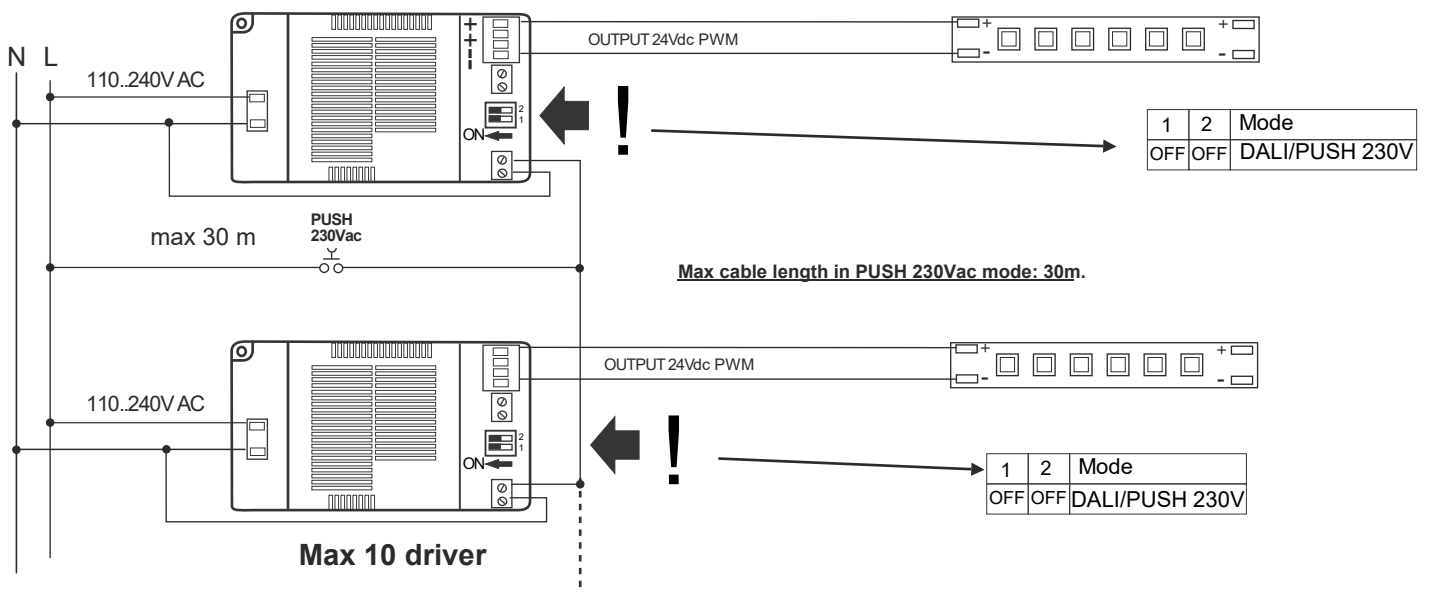
PUSH 24Vdc and SYNCHRO by CABLE Mode

6



PUSH 230Vac and SYNCHRO by CABLE Mode

7



Factory setting: DALI input active

Button input setting: When the PUSH-BUTTON is pressed for the first time, the product remains set into PUSH-BUTTON mode (PUSH 230Vac)

N.B.

If the power supplies lose synchronization, press the button > 10sec continuously and the power supplies will re-synchronize.