

USER GUIDE LEMC23SLIMD

Dimmable constant multicurrent LED driver (CC) with push-button and DALI signal control



www.lef-lighting.it

General Characteristics

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

		LEMC23SLIMD Constant current LED Driver		DALI 2 DT6 SELV		IP20	
PRI: 220-240VAC 0/50/60Hz Max. 0.12A U-OUT: 60V		SEC: 100-700mA 2.5-46VDC $t_c = 85^\circ\text{C}$ $t_a = 50^\circ\text{C}$					
PFC		1 2 3 4		1 2 3 4			
4,6		100		0,78		ON ON ON	
6,9		150		0,85		ON ON ON	
9,2		200		0,89		ON ON ON	
11,5		250		0,91		ON ON ON	
13,8		300		0,93		ON ON ON	
16,1		350		0,94		ON ON ON	
18,4		400		0,95		ON ON ON	
20,7		450		0,96		ON ON ON	
23		500		0,96		ON ON ON	
23,1		550		0,96		ON ON ON	
22,8		600		0,96		ON ON ON	
22,75		650		0,96		ON ON ON	
23,1		700		0,96		ON ON ON	

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)
LEMC23SLIMD	220-240	50÷60	4,6	DALI PUSH	2,5-46	100	0,78	CC	150
			6,9			150	0,85		
			9,2			200	0,89		
			11,5			250	0,91		
			13,8			300	0,93		
			16,1			350	0,94		
			18,4			400	0,95		
			20,7			450	0,96		
			23			500	0,96		
			23,1		2,5-42	550	0,96		
			22,8		2,5-38	600	0,96		
			22,75		2,5-35	650	0,96		
			23,1		2,5-33	700	0,96		

Reference Standards

EN 61347-1
EN 61347-2-13
EN 62384
EN 62386-207
EN 62386-251
EN 62386-252
EN 62386-253



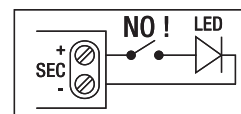
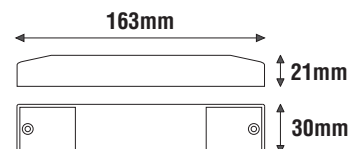
DIM PUSH 230Vac	SYNCR by CABLE	MAX 10 SLAVE	DALI DT6	DALI 2	DIM DALI	EE 88%	DIP SWITCH	LED COB
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Technical Features

Input voltage range 220-240Vac
Input frequency 50÷60Hz
Constant current output 100÷700mA
(settings by dip-switch)
Factory setting: 100mA
Brightness adjustment through:
- push-button (PUSH 230Vac)
- DALI signal

«LEVEL MEMORY» and «STATUS MEMORY» function
Synchronization of multiple power supplies via cable (max 10)
Energy Efficiency (EE) 88%
Open circuit Protection (OCP)
Protection against overtemperature (OTP)
Short circuit protection (SCP)
Power factor correction (PFC) $\lambda \geq 0,96$
Operating ambient temperature $T_a -20^\circ\text{C} \div +50^\circ\text{C}$
Max case temperature on $T_c 85^\circ\text{C}$

OUTPUT DIP-SWITCH		1	2	3	4
Potenza Power (W)	Corrente MAX MAX Current (mA)				
4,6	100	-	-	-	-
6,9	150	-	-	-	ON
9,2	200	-	-	ON	-
11,5	250	-	-	ON	ON
13,8	300	-	ON	-	-
16,1	350	-	ON	-	ON
18,4	400	-	ON	ON	-
20,7	450	-	ON	ON	ON
23	500	ON	-	-	-
23,1	550	ON	-	-	ON
22,8	600	ON	-	ON	-
22,75	650	ON	-	ON	ON
23,1	700	ON	ON	-	-



N.B.

Power supply 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.



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

MADE IN P.R.C.



LEF LIGHTING S.R.L. www.lef-lighting.it

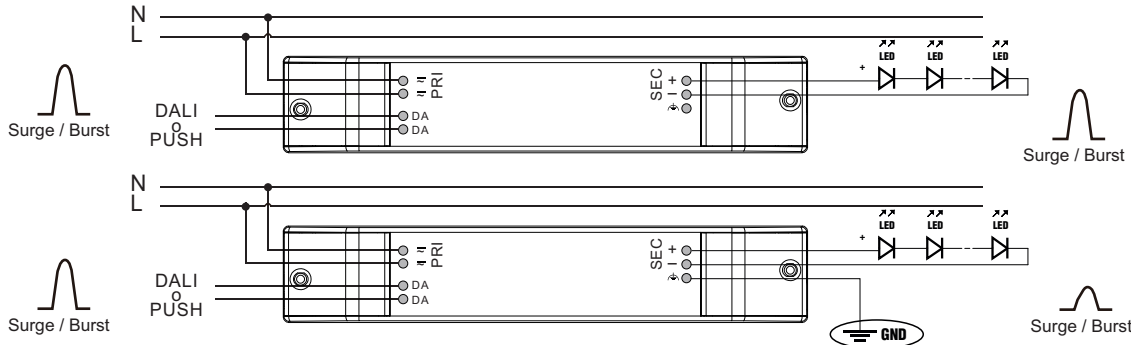
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GROUND terminal function



The earth terminal has no safety function, but only a performance-improving function (functional earth).

The earth connection (GND) is recommended to improve the following problems:

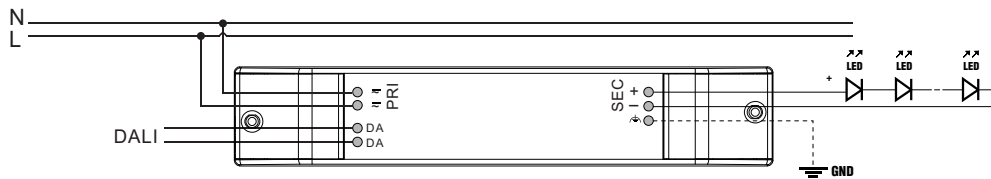
- **Electromagnetic interference (EMI)**

- **LED module on (residual brightness) in standby mode**

In general, it is recommended to earth the LED Driver if the LED module is mounted on earthed luminaire parts respectively heat sinks and thereby representing a high capacity against earth.

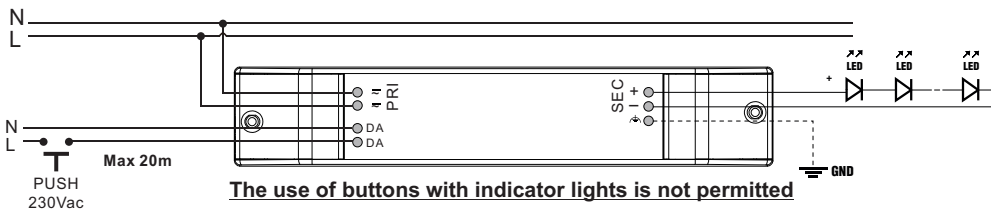
This earthing connection cancels out the residual brightness of the LED module in standby, which can occur due to capacitive leakage currents from the LED module on earthed luminaire parts (such as the heat sink). This mainly affects high-efficiency and large-area LED systems installed in luminaires with class I protection.

DALI mode

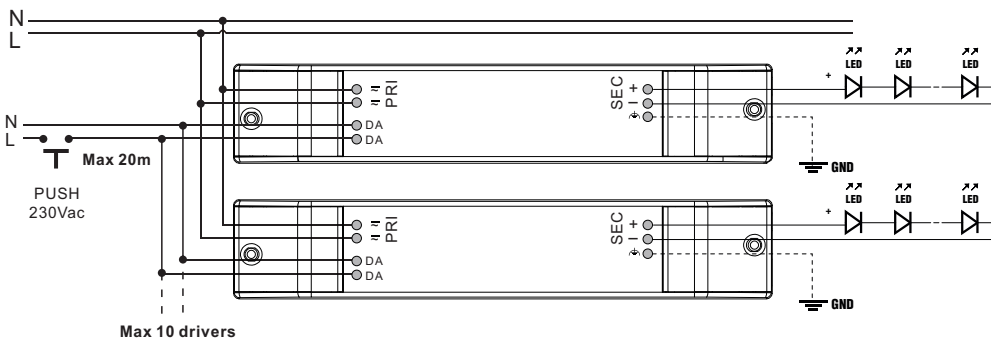


DALI DT6	DALI 2	DIM DALI
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PUSH 230Vac mode



SYNCHRONIZATION via 230Vac BUTTON:



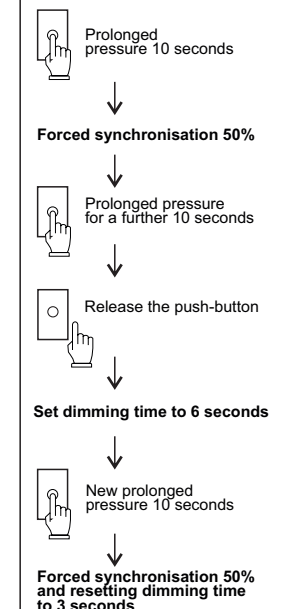
Short button pressure (0.12 sec - 0,6 sec): **ON/OFF**
Long button pressure (> 0.6 sec): **Dimming 1% → 100%**

Synchronisation procedure

With prolonged pressure on the button (10 seconds), all drivers will be synchronised to the 50% dimming level.

Setting dimming time (1-100%)

The dimming speed can be changed from 3 sec. (default setting) to 6 sec. by prolonged pressure on the button (≥ 20 sec.). you have to repeat the procedure to reset the dimming speed to the default 3 sec.



DIM PUSH 230Vac	SYNCR by CABLE	MAX 10 SLAVE
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