USER GUIDE DRU230STR

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Universal dimmer for 230Vac strip LED controlled by PUSH-BUTTON



New EV specific dimming technology (Evolution Edge) for 230Vac LED strips

The DRU230STR is a dimmer specially designed for use in combination with 230V LED strips via the new Evolution Edge 'EV' mode, which makes the light output more uniform, solving the typical flicker of 230V LED strips. However, the DRU230STR can also operate in 'Trailing Edge' mode to control other types of load besides LED strips, making its use universal. It is powered by connecting phase and neutral, and is controlled by normally open pushbuttons, also with indicator lights, connected to the phase or neutral.

General Characteristics

Self-extinguishing plastic housing PBT V-0 Resin-bonded with polyurethane resin Electric class protection II Protection degree IP44 4-wire system DBU230STR



Descending Phase Cutting dimming (at the end of the phase) TF Trailing Edge

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CODICE CODE	Modalità spia LED LED indicator mode	Taglio di Fase Phase Cut	RESISTIVO RESISTIVE Lampade ad incandescenza o alogene Incandescent or halogen lamps 230Vac	INDUTTIVO INDUCTIVE Trasformatore lamellare Laminated transformer 230/12Vac	lampade ad incandescenza	Alimentatore elettronico con lampade LED dimmerabili Electronic driver with dimmable LED lamps 230/12Vac	Alimentatore elettronico dimmerabile con uscita in CC/CV per LED Dimmable electronic driver with CC/CV output for LED	Lampade LED dimmerabili Dimmable LED lamps 230Vac	Moduli LED dimmerabili Dimmable LED modules Seoul ACRICH 230Vac	Strip LED dimmerabili Dimmable Strip LED 230Vac	Peso Weight (g)
DRU230STR	Luce fissa Fixed light	EV	-	-	-	-	-	-	-	5-150W	50
	Luce lamp. Flashing light	TE	10-150W	-	10-120W	10-120W	10-120W	5-120W	5-120W	-	50

Note: Above 35°C ambient, downgrade the maximum load by 20% with each additional 5°C increase

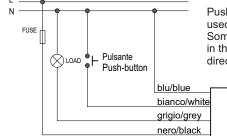
DIMMER

DRU230STR

Connection of the Push-button on the NEUTRAL

Single channel dimmer with Phase-Cut output

Calibration of the minimum brightness via push-button



Technical Features

Input frequency 50Hz

- EV Evolution Edge

- TE Trailing Edge

Dimming control

with modes:

Input voltage range 230Vac

- push-button (PUSH 230Vac) Manageable power (see table)

Overload protection (OLP)

Self-consumption <1W

Overvolatge protection (OVP)

«LEVEL MEMORY» function (settable)

Factory setting: EV Evolution Edge

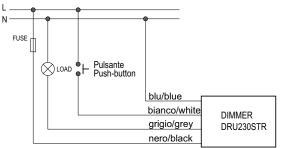
«STATUS MEMORY» function (settable)

Protection against overtemperature (OTP)

Operating ambient temperature Ta -5°C ÷ +35°C

Push-buttons with indicator lights can be used for a maximum total of 3mA. Some indicator lights are unidirectional: in these cases check the correct mounting direction by doing a test.

Connection of the Push-button on the LINE



PROTECTIONS:

- Overload and short-circuit protection:

- If the load considerably exceeds the maximum permissible power or if a short circuit is detected, the dimmer is protected against switching on.
- Overtemperature protection: if an excessive temperature is detected internally, the
- dimmer will automatically switch off.

It is recommended to protect the system by inserting a 2A/250V fast FUSE.

WARNINGS:

- Use only dimmable loads.
- Do not connect fluorescent lamps (CFLs or tubes),
- electromechanical transformers or electric motors of any kind.
- The housing must allow sufficient ventilation for the dimmer, so do not install near other heat sources.
- The device does not provide galvanic input-output separation.
- Excessively long connecting cables may interfere with the operation of the device or produce residual luminescence.



Viale L. Ariosto 478/480 - 50019 Sesto Fiorentino (FI) - ITALY | Tel +39 055 421 77 27 - Fax +39 055 425 44 92

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Operation

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On/off: briefly press a button connected to the dimmer.

Dimming: press and hold a button connected to the dimmer with the light on, until it is reached of the desired light intensity.

To reverse the direction of regulation, release the button and press again. Switching on and off takes place with the **Soft Start and Soft Stop** function, for better visual comfort and a less load and dimmer stress.

A double short press of the button during switch-on allows the light to be locked at a value below the maximum value, when the memory function is not active.

OPERATION MODE SETTING You can choose between two dimming technologies:		Default parameters: - STATE MEMORY OFF - LEVEL MEMORY OFF				
- Evolution Edge (EV) - Trailing Edge (TE) mode		- Minimum lev - Logarithmic				
The DRU230STR is set to 'EV' mode by default.		- Evolution-Ed	ge (EV)	MODE INDIÇATOR		
 To change mode you have to: Press and hold the push-button with the light off (device standby); the mode indicator will light up indicating the active mode. Every 7 seconds, it switches alternately from one mode to the other (see 	a tabla)	EV mo	de FIXED LED indic	ator light		
When the desired mode is activated, release the button and the indicat		rn off. TE mo	de FLASHING LED indic			
Memory functions As a factory setting, the dimmer will be found with all memories deactive - At the first power up the light will be off (0%). - The first time the button is pressed, the light will always turn on at 100° - Following a black-out the light will be 0%. Two types of memory can be activated: LEVEL MEMORY: it is the memorization of the brightness level after the Each time it is turned on, the previous level will be restored. STATUS MEMORY: this is the storage of the dimmer status after a black After each power failure the previous state will be restored. The memory of this device is permanent, i.e. it is not lost in the event of	%. • button has b kout.		f. ITION:			
 "LEVEL MEMORY" AND "STATUS MEMORY" ACTIVATION 1) Disconnect the mains voltage. 2) Press and hold the button. 2) here in the provide the provided of the pr		followe If the p than th	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			
 3) Insert the mains voltage. 4) Continue to hold the button and wait 3 seconds. 5) The load emit two flashes. The "LEVEL MEMORY" has been set, release the button if you don't w 6) To activate the "STATUS MEMORY" as well, continue to hold down to 7) The load will flash three times. 		<u>accept</u> e the "STATUS	MEMORY".	for damages caused		
"LEVEL MEMORY" AND "STATUS MEMORY" DEACTIVATION (RESET to the factory settings)						
1) Disconnect the mains voltage.		₩÷ ₩				
2) Press and hold the button.3) Insert the mains voltage.		\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	SE "LEVEL MEMORY "STATE MEMORY			
4) Continue to hold the button and wait 3 seconds.5) The load will flash once.		کر	FACTORY SETTIN	IGS RESET		
The "LEVEL MEMORY" and the "STATUS MEMORY" have been deac MINIMUM BRIGHTNESS ADJUSTMENT PROCEDURE						
 1) Turn on the light by pressing the button. 2) Press and hold the button to decrease brightness, down to the curren 3) Wait for approximately 5 seconds (in which the lamp will not vary brig brightness starts to rise and fall slowly (minimum adjustment phase) 4) During this last phase, release the button when the brightness has re N.B. Minimum dimming range: 5-35%. IN CASE OF RESIDUAL BRIGHTNESS In the event that residual brightness is present when 	t minimum. htness) and c	continue to hold sired value (stor	age of the new r			
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LEF LIGHTING S.R.L. | www.leflighting.it Viale L.Ariosto 478/480 - 50019 Sesto Fiorentino (FI) - ITALY | Tel +39 055 421 77 27 - Fax +39 055 425 44 92