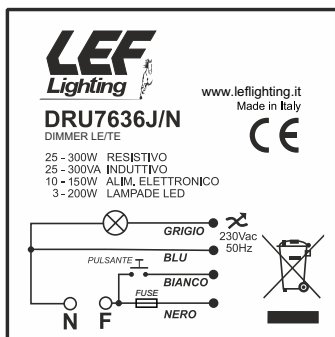


# USER GUIDE

## DRU7636J/N

Universal dimmer controlled by push button (4-wires)



### General Characteristics

4-wire system.  
The device is placed in a plastic case (45Lx40Px15H mm) and filled with polyurethane resin compliant to UL 94V-0. The resin coating gives both good electrical insulation and mechanical resistance.

### PROTECTION:

#### Electronic short-circuit protection (SCP):

Immediate switch off of the dimmer upon detection of the short circuit (failure prevention not guaranteed).

**Overload protection (OLP):**  
prevents the dimmer from turning on if the load exceeds the maximum allowed power.

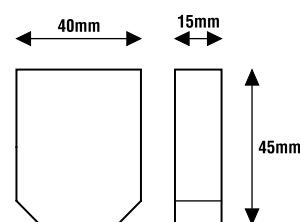
**Thermal limitation (NTC):**  
lowers the brightness and in extreme cases turns off the dimmer if an excessive internal temperature is detected

### Technical Features

Input voltage range 230Vac  
Input frequency 50Hz  
**Single channel dimmer with Phase-cut output:**  
- **LE Leading Edge**  
- **TE Trailing Edge**  
**Dimming control through:**  
- **push-button (PUSH 230Vac)**  
Manageable power (see table)  
Calibration of the minimum brightness via push-button  
«LEVEL MEMORY» function (excludable)  
«STATUS MEMORY» function  
(at 0%, light OFF after black-out)  
Operating Ambient temperature Ta -5°C ÷ +35°C  
Self-consumption: 1W

### Reference Standards

EN 60669-1  
EN 60669-2-1



### CAMBIO MODALITÀ DI FUNZIONAMENTO

- 1) Spegner la luce con il pulsante
- 2) Premere e tenere premuto il pulsante, il dispositivo passa in modalità all'altra ogni 5".
- 3) Rilasciare il pulsante quando la spia LED corrisponde alla modalità desiderata.

Spia LED	Modalità d'uso
Luce fissa	Leading Edge (LE)
Luce lampeggiante	Trailing Edge (TE)

### Ascending Phase Cutting dimming (at the beginning of the phase) LE Leading Edge

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

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	INDUTTIVO INDUCTIVE Trasformatore toroidale* Toroidal transformer 230/12Vac	Alimentatore elettronico con lampade ad incandescenza o alogene Electronic driver with incandescent or halogen lamps 230/12Vac	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	Peso Weight (g)
DRU7636J/N	Luce fissa   Fixed light	LE	25-300W	-	25-300VA*	10-50W	10-50W	10-50W	3-40W	4-50W	50
	Luce lamp.   Flashing light	TE	-	-	-	50-300W	50-150W	50-150W	40-200W	50-150W	

\* Use the transformer at least at 50% of its rated power

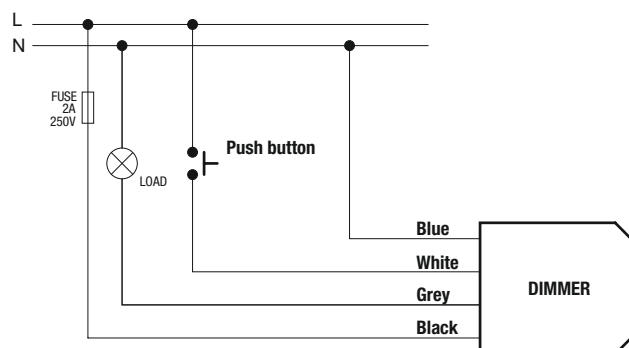
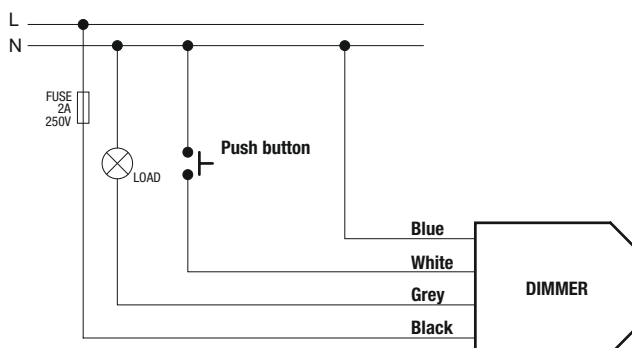
Notes: above 35 °C ambient, derate the maximum load by 20% for each further increase of 5 °C

DIM PUSH 230Vac	OUT LE TE
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**Depending on the type of load and power, set the dimmer to LE (Leading Edge) or TE (Trailing Edge) mode.**

### Push-button connected to the NEUTRAL

### Push-button connected to the LINE



### WARNINGS

- It is recommended to protect the device with 2A/250V FAST FUSE.
- Do not connect electromechanical transformers with no-load conditions (without load).
- Do not use light buttons.
- The housing must allow sufficient ventilation to the dimmer, therefore do not install near other heat sources.
- This device does not provide galvanic separation between the line and load

### Default parameters:

- STATE MEMORY OFF (0%)
- LEVEL MEMORY OFF (programmable)
- MODES OF OPERATION:  
LEADING EDGE (LE)

# USER GUIDE

## DRU7636J/N

Universal dimmer controlled by push-button (4 wires)



www.leflighting.it

### Universal dimmer switch in MOSFET technology, for resistive and inductive loads, electronic LED drivers, LED 230Vac lamps.

With this regulator you can adjust all the 230Vac incandescent, halogen, LED, provided that they are dimmable. You can adjust also low voltage (12Vac) LED and halogen lamps through an appropriate transformer or electronic driver. The device can be operated through one or more normally open (NO) push-buttons, connected to phase (F) or neutral (N) (see diagrams)

#### **PROGRAMME OPERATION WITH LEVEL MEMORY**

Pressing the button for a short time (0,5"), a "soft start" begins and proceeds until the light setting in memory is reached. An additive short pulse switches the regulator off through a "soft stop". Holding the push-button pressed for more than 0,5", the memory point of the bright stream changes (DIMMING function).

N.B. In the event of a power failure, the brightness level is only reset when the button is pressed (function with LEVEL MEMORY).

#### **PROGRAM OPERATION WITHOUT LEVEL MEMORY**

The only difference with the previous modality is that every time you turn off the power supply, the stored state is lost. (the light will switch on at 100%).

N.B. The programme set during testing is WITHOUT LEVEL MEMORY and with LEADING EDGE (LE) operation (LED light steady).

#### **OPERATIONS FOR PROGRAM CHANGE (WITH or WITHOUT LEVEL MEMORY):**

- 1) Remove the mains voltage
- 2) Press and hold the push-button
- 3) Insert the mains voltage
- 4) Wait for the lamp to flash
- 5) Release the push-button down

- Two lamp flashes indicate that the dimmer is passed in «MEMORY» mode.

- Only one light flash indicates that the dimmer is passed in «WITHOUT MEMORY» mode.

N.B. No «STATUS MEMORY» can be set. The dimmer always switches to 0% after a power failure. (light off)

#### **MINIMUM BRIGHTNESS ADJUSTMENT PROCEDURE:**

- 1) Turn on the light by pressing the push-button.
- 2) Press and hold the push-button pressed in order to decrease the brightness. Wait about 5" (the lamp does not change brightness during this time interval) until the brightness starts again to rise and fall slowly (minimum setting).
- 3) During this last step, release the button when the brightness has reached the desired value (storage of the minimum level).

#### **OPERATING MODE:**

- **LEADING EDGE:** Ascending phase cut (at beginning of phase) (LE)
- **TRAILING EDGE:** Descending phase cut (at the end of phase) (TE)

#### **RECOMMENDED OPERATING MODES FOR DIFFERENT LOAD TYPES:**

##### **LEADING EDGE (LE)**

(Ascending phase cut at beginning of phase)

- Electronic LED drivers
  - Electronic drivers for halogen lamps 12Vac
  - Dimmable LED Lamps (230Vac)
  - Toroidal transformers (at least at 50% of its rated power).
  - Halogen Lamps (230Vac)
  - LED SEOUL Acrich modules (230Vac)
- (See load table on previous page)

##### **N.B. DO NOT USE LAMELLAR TRANSFORMERS**

##### **TRAILING EDGE (TE)**

(Descending phase cut at the end of phase)

- Electronic LED drivers
  - Dimmable LED Lamps (230Vac)
  - LED SEOUL Acrich modules (230Vac)
  - Electronic drivers for halogen lamps 12Vac
- (See load table on previous page)

##### **N.B. DO NOT USE LAMELLAR TRANSFORMERS**

#### **OPERATIONS FOR CHANGING MODE OF OPERATION:**

- 1) Holding the button pressed (lights off), the device switches in sequence from a modality to the next one every 5".
- 2) Release the button when the LED light matches the desired mode.

LED indicator mode	Modes of operation
STEADY LIGHT	LEADING EDGE (LE)
FLASHING LIGHT	TRAILING EDGE (TE)

#### **Default parameters:**

- STATE MEMORY OFF (0%)
- LEVEL MEMORY OFF (programmable)
- MODES OF OPERATION: LEADING EDGE (LE)



MADE IN ITALY



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