

New DIMMER 10A offers the most steady and flexible control for luminous intensity. Under the scope of installation technicians, light fixtures manufacturers and architects who seek a quality regulation of luminous flux with LED technology. DIMMER 10A modules incorporate BAM / PWM technology in all their version models. Higher efficiency than 95% and 100% compatible with PCBs, LED strips and linear monochromatic 12-24 Vcc LED modules.

On account off its exclusive design in miniscule size, it is possible to introduce the module in any standard light switch box and use standard electrical components. All models are possible to customize and have 3 years guarantee.

The modules are designed to enable intensity regulation of LED systems that work on constant current. For proper functioning and according to customer's needs, the module requires protected constant current input of 12-24 Vcc.

The modules are presented in 3 types: control with encoder or linear potentiometer, for switchers and inverted encoder.



In compliance with:

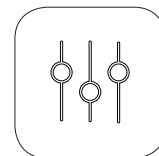
IEC 60669

APPLICATION

PRODUCT DESCRIPTION

- 12-24 Vcc input
- Maximum dimensions 45x45x35MM
- Efficiency > 95%
- Open frame product
- Digitally regulated PWM_BAM
- 1 channel
- Regular power 240W
- High resolution
- Simple connection to constant voltage

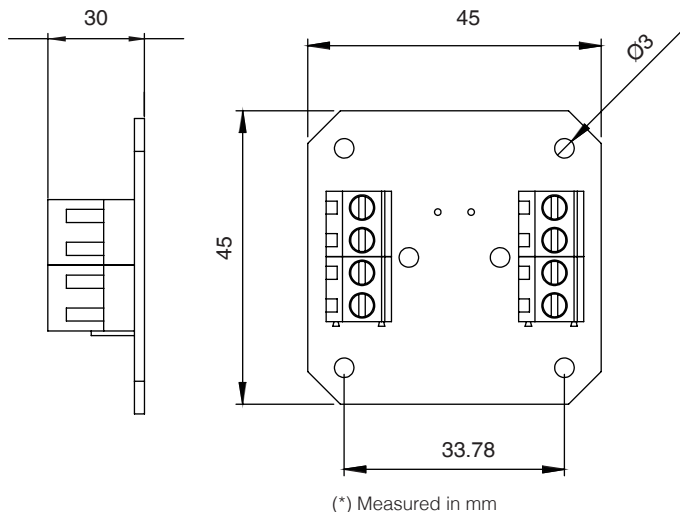




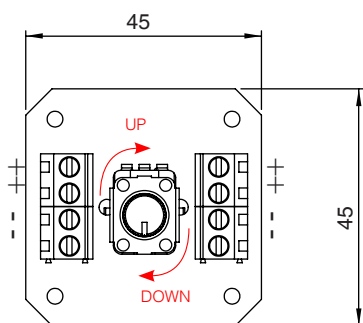
TECHNICAL DATA

- SELV voltage
- Operating temperature between -20 °C and 45 °C
- Standard Tc 75 °C
- 8 BITS resolution
- REFRESH frequency 400 Hz
- BAM_PWM regulated
- 1 CH, monochromatic regulation
- Memory. Saves last selected values
- MOQ 25 units
- Weight 30 g
- Packaging box weight (approx.) 900 g
- For fixtures integration, CE directives compliance

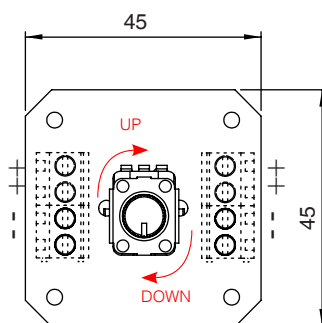
DIMENSIONS



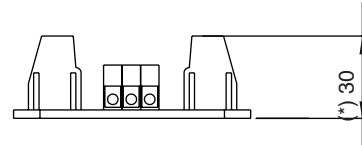
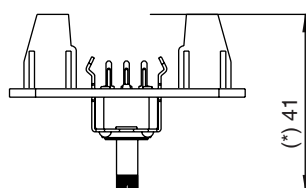
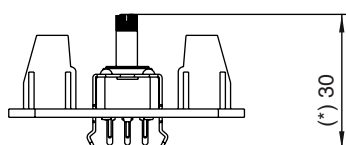
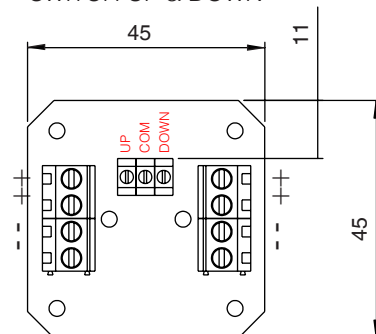
ENCODER



ENCODER INV



SWITCH UP & DOWN



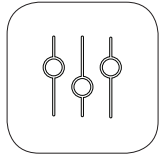
Note: Total distance
Max. Wire section 0,5 / 1,5 mm²
Measured in mm

SPECIFIC TECHNICAL DATA

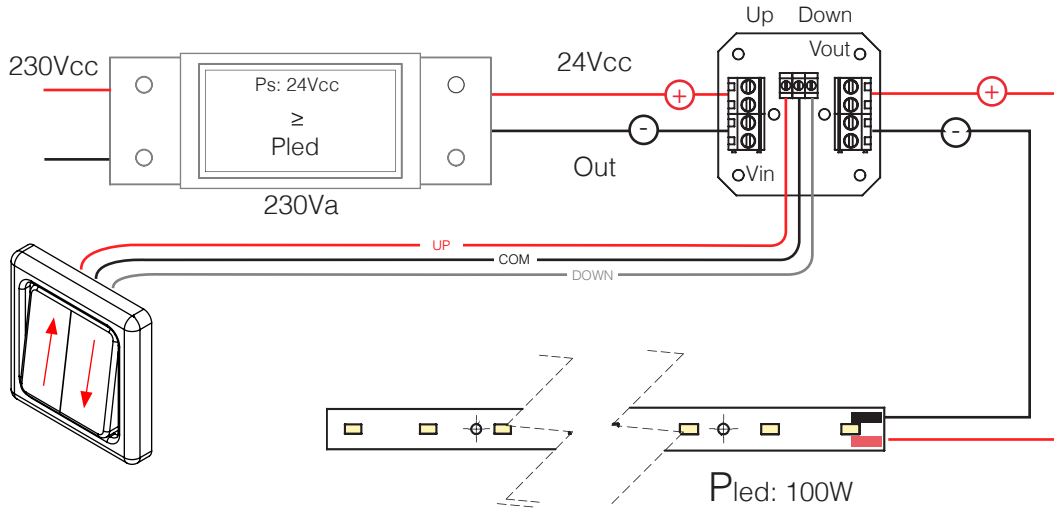
SPECIFIC TECHNICAL DATA

CODE	INPUT VOLTAGE (V)	VOLTAGE V	CURRENT (A)	MAX POWER (W)	REGULATION MODE	DIMENSIONS (mm)
31.34.01012	12-24	12	0-10	120	Encoder	45x45x30
31.34.01013	12-24	12	0-10	120	Inverted Encoder	45x45x41
31.34.01014	12-24	12	0-10	120	Switch up & down	45x45x30
31.34.01015	12-24	24	0-10	240	Encoder	45x45x20
31.34.01016	12-24	24	0-10	240	Inverted Encoder	45x45x41
31.34.01017	12-24	24	0-10	240	Switch up & down	45x45x20

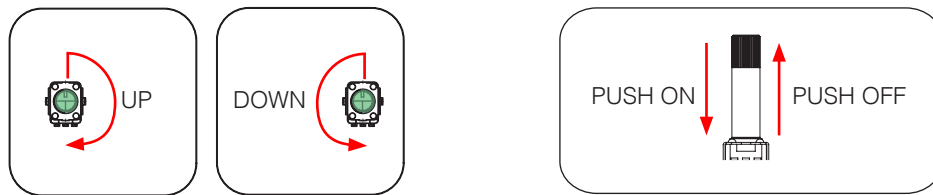
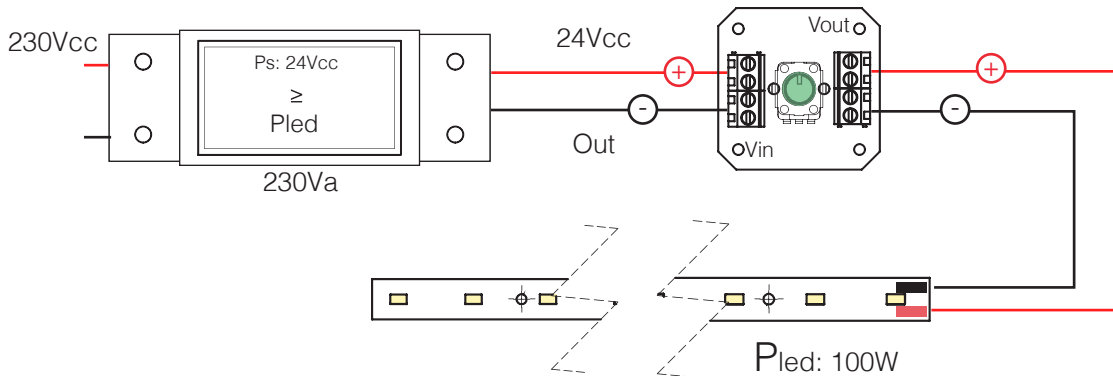
Note: Operating temperature between: -20°C and +40°C



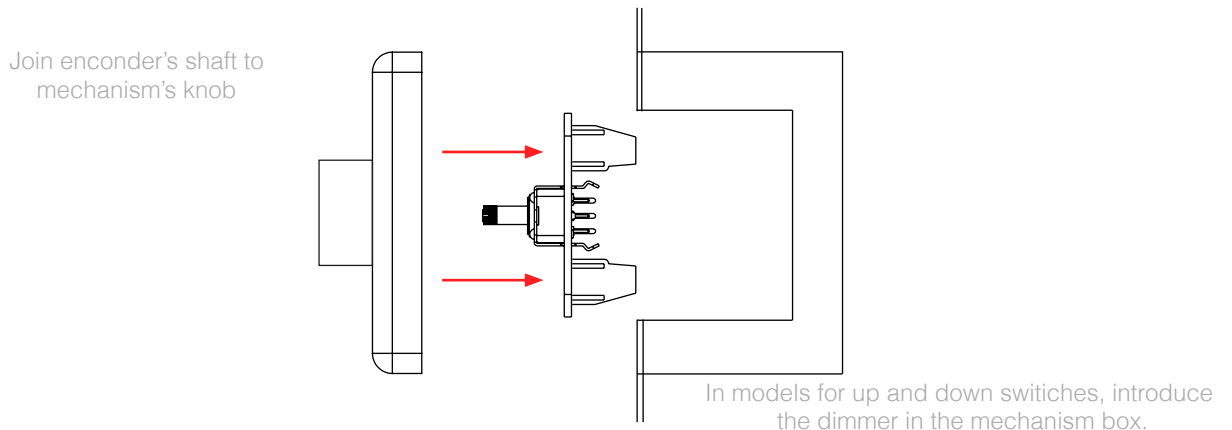
CONNECTION EXAMPLE - VOUT=24VCC

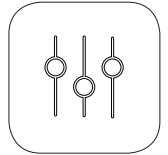


CONNECTION EXAMPLE - 24VCC WITH POTENTIOMETER OR ENCODER



INSTALLATION EXAMPLE IN LIGHT SWITCH BOX





SECURITY AND INSTALLATION INFORMATION



ELECTRICAL POWER

DIMMERS 10A must be feed at constant current; the energy source power must be in coordance with the quantity of connected modules in parallel. Family LENKER LED CONTROL has polarity , for this reason rated current, nominal power and polarity must be taken into account.If that is not the case, the module might be irreversibly damaged. Family LENKER LED CONTROL require specific driver protection against short-circuit currents, temperature raise and overloads.



ISOLATION

DIMMER 10 A functions with SELV voltage, it does not require active isolation of the component as long as maximum reference SELV voltage is not exceeded. The driver must be in compliance with CE, UL or valid analogous regulation.



ESD – STATIC ELECTRICITY INFORMATION

DIMMER 10 A contains electronic components wich are very sensible to static electricity. In this respect is it highly recommendable to always manipulate te items with appropriate ESD protection, and take adequate measures for safety matters. If you need further information please refer to our webpage www.idled.eu



MOUNTING AND INSTALATION

I+D LED S.L. is not responsible for the installation of the product. The installer must place the DIMMER 10A correctly and respecting the nominal electrical values. DIMMER 10A have 4 fixing holes for M3 screws and can be inserted into a standard electrical box (without live parts) or equivalent. In all cases, the tightening force of the screw should never exceed 0.5Nm, to avoid compression stress or surface tension on the electronic components of the PCB. All DIMMERS have the DIN screw head marked on the PCB. Flat head DIN screws are recommended.If any type of chemical substance is used in the installation, it must not have any type of cure by gas condensation or abrasive elements that damage the electronic components. The ideal cable to use for the connection is the 0.4-1.5mm² multipolar flexible cable (power divided into two connection strips), with a 6mm stripping.



TEMPERATURE

DIMMER 10 A life time depends to a great exent on operating temperature. Under no circumstance temperature should exceed the maximum permissible room temperature ($T_c=75^{\circ}\text{C}$) limite here indicated. Exposure to higher temperatures might affect its long term proper functioning. Room temperature must be measured under worst-case conditions to ensure life -time and keep product's guarantee. Store modules between -20°C and $+80^{\circ}\text{C}$, and at a maximum humidity level of 65%.

