# MEGAMAN® LED DC1-10V Dimming Series

## STANDARDS COMPLIED WITH:

### LED driver

| | |
|---|---|
| **Safety** | IEC/EN 61347-1 IEC/EN 61347-2-13<br>UL1310 UL935 UL8750<br>CSA C22.2 No.233-M91 |
| **Performance** | IEC/EN 62384 UL1310 |
| **EMC** | EN 55015 IEC/EN 61000-3-2<br>IEC/EN 61547 IEC/EN 61000-3-3<br>FCC 47 CFR Part 15 & Part 18 |

### LED lamp without ballast

| | |
|---|---|
| **Safety** | IEC/EN 62031<br>UL8750 |
| **Photobiological safety** | IEC/EN 62471 |
| **Performance** | IESNA LM-79<br>IESNA LM-80<br>IEC/EN 60969* |

* This is the standard for self-ballasted CFLs used as a reference before the standard specifying performance requirements for LED lamps are finalised.

## PRECAUTIONS:

- Read the entire manual carefully before installation and operation.
- We recommend that installation be performed by a licensed and qualified electrician.
- DO NOT touch the LED chip in the middle part of the lamp (the yellow chip), as doing so may result in lamp damage or malfunction.
- Wearing gloves during installation is suggested for keeping the lamp in the best condition.
- Before replacement of lamp, turn the power off and allow the lamp to cool down. Heat-resistant gloves are mandatory when handling the lamp.
- Dimming of 1-100% is capable when working with the DC 1-10V dimming driver and the DC 1-10V dimmer. (Certain dimmer switches are equipped with a potentiometer, a small device to fine tune the resistance of the dimmer switch to obtain the optimal minimum light output of the lamp.)
- The LED lamp is only compatible with a constant current type (500mA) LED Electronic Driver with Safety Extra-Low Voltage (SELV) output.
- MEGAMAN® constant current type (500mA) LED Electronic Driver with Safety Extra-Low Voltage (SELV) output:

*(for LED lamp: ER0110-50H24D,ER0210-50H08D,ER0310-50H45D)*

**LD0310x1v-C500**

| | Input | | Output |
|---|---|---|---|
| **Uin (V)** | 120 ~ 240 | **Uout (V)** | 20 |
| **F (Hz)** | 50/60 | **I (mA)** | 500 |
| **I (mA)** | 123/62 | | |
| **λ** | >0.9 | | |
| **tc** | +85°C | | |
| **ta** | -30°C ~ +40°C | | |

- In case of discrepancy in the weight of the lamp that you intend to replace, it is recommended to check the maximum loading of the luminaire before installation to avoid any unstable mechanical function caused to the luminaire.
- The manufacturer accepts no liability for any injuries or damages resulting from the incorrect use of the lamp or use of the lamp in combination with inappropriate equipment.
- Consult your dealer if you have any questions.

## ATTENTION:

- Instant restart is allowed.
- Designed for industrial and commercial use.
- The LED lamps are designed to use in a temperature range from -30°C to +40°C.
- Declared lumen output is based upon measurements obtained during operation on the appointed LED Electronic Driver under standardised laboratory conditions.
- Push the button when you insert/release the wire in/from the terminal.
- Use solid copper wire of 18 AWG (minimum) for the input terminal, and 20 AWG (minimum) for the output terminal.
- Strip length of wire insulation 9~10 mm.
- Please refer to the wiring diagram before installation.

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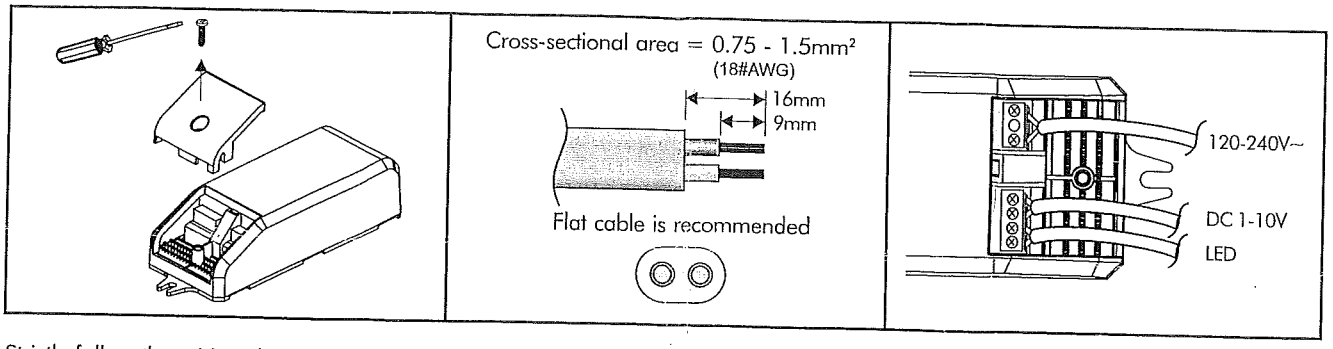
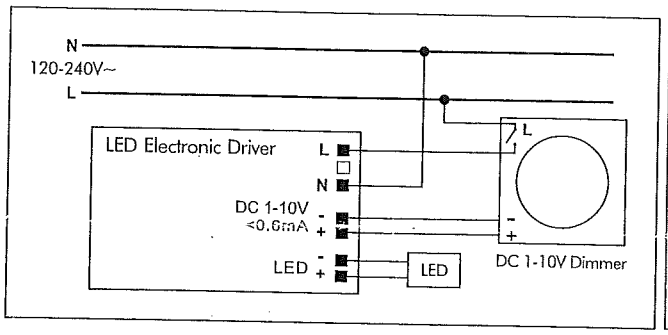
## INSTALLATION:



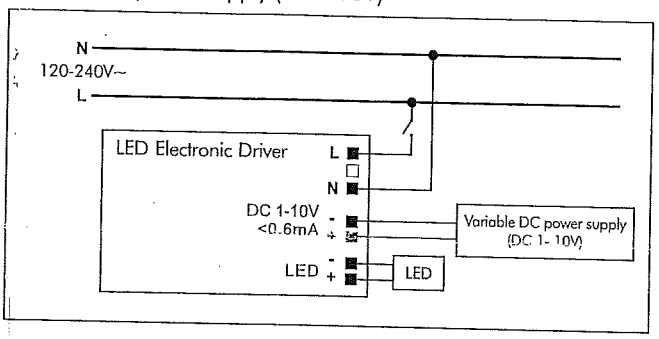

- Strictly follow the wiring diagram for connecting the LED Electronic Driver as shown below:

| | |
|---|---|
| LED Lamp Model | ER0110-50H24D ER0210-50H08D ER0310-50H45D |
| Electronic Driver Model | LD0310x1v-C500 |

Wiring diagram for connecting LED Electronic Driver with DC 1-10V Dimmer

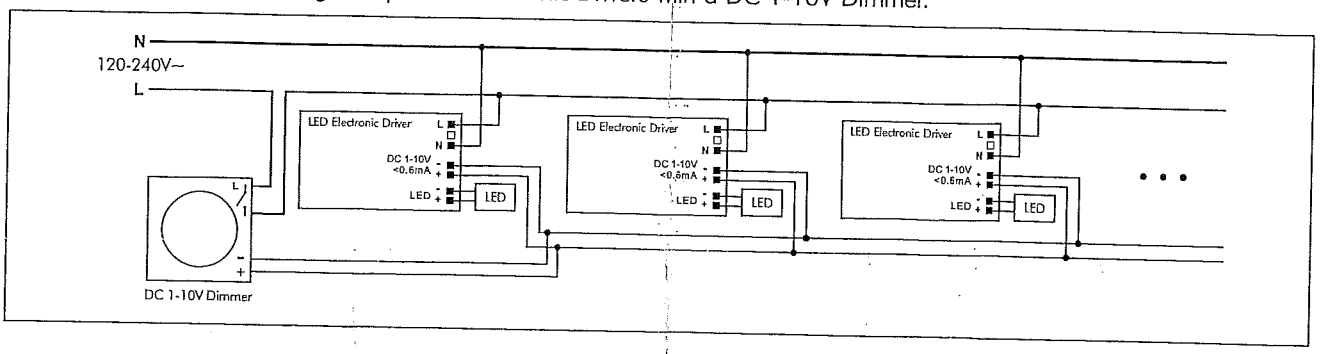



Wiring diagram for connecting LED Electronic Driver with variable DC power supply (DC1-10V)




- Before operating the LED lamp, users should pay attention to the maximum current of the dimmer switch used.
- When connecting the driver with ER0110-50H24D,ER0210-50H08D or ER0310-50H45D, the marked polarity can be ignored.
- For connection of multiple LED Electronic Drivers with a DC 1-10V Dimmer, the total output current from the "1-10V" terminal of the LED Electronic Driver(s) should not exceed the MAXIMUM current of the dimmer switch.

Wiring diagram for connecting multiple LED Electronic Drivers with a DC 1-10V Dimmer.




Remarks: Dimming performance can vary between different brands and designs of DC 1-10V dimmers in the market.
**For the best dimming effect, we recommend that the maximum number of LED Electronic Drivers connected to the DC 1-10V dimmer should not exceed 15.**

**Correct Disposal of this product**

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device,please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

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