LEDixia mini
LDX101

0/1-10V controlled dimming driver
12V and 24V constant voltage LEDs

Contents

Product order codes

LDX101

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Overview

The LDX101 incorporates Multiload's own patented dimming technology. This technology ensures that a wide range of constant voltage LEDs can be dimmed flicker-free to darkness.

ACTUAL SIZE

Features

- Operates 12V or 24V constant voltage lamps and strips
- 0/1-10 V dimming control (DALI interface available)
- Smooth flicker-free dimming to darkness
- Maximum rating 10A
- 100K potentiometer dimming control
- Can be positioned up to 20m from the lamps

Note 1: LED lamps and strips are connected in parallel.

Note 2: LED Ixia uses a DC Output Power supply

Technical information

Mechanical
Supplied with fully clamped 200mm flying leads.
Fixing points provided 4 mm diameter

Supply input voltage
12V or 24V DC.
Voltage depends on lamp/strip version being used.
See Notes below.

Output voltage
12V or 24V DC. Depending on the power supply used.

Maximum output current
10A

Minimum output current
Less than 0.1A

Current consumption
Less than 40mA

Humidity
Less than 95%

Ambient temperature range
-10°C – +50°C

Physical data
Weight: 44g
Case material: ABS
Dimensions: W:30mm D:20mm L:60mm including flange
Flange thickness: 3mm

Notes

With all constant voltage installations, whether strips or lamps, the volt drop in the cabling between the power supply and the lamps needs to be considered and cabled appropriately.

The wattage of the Power supply must be at least twice the wattage of the connected load.

A voltmeter will not give accurate reading at the output.

Installation

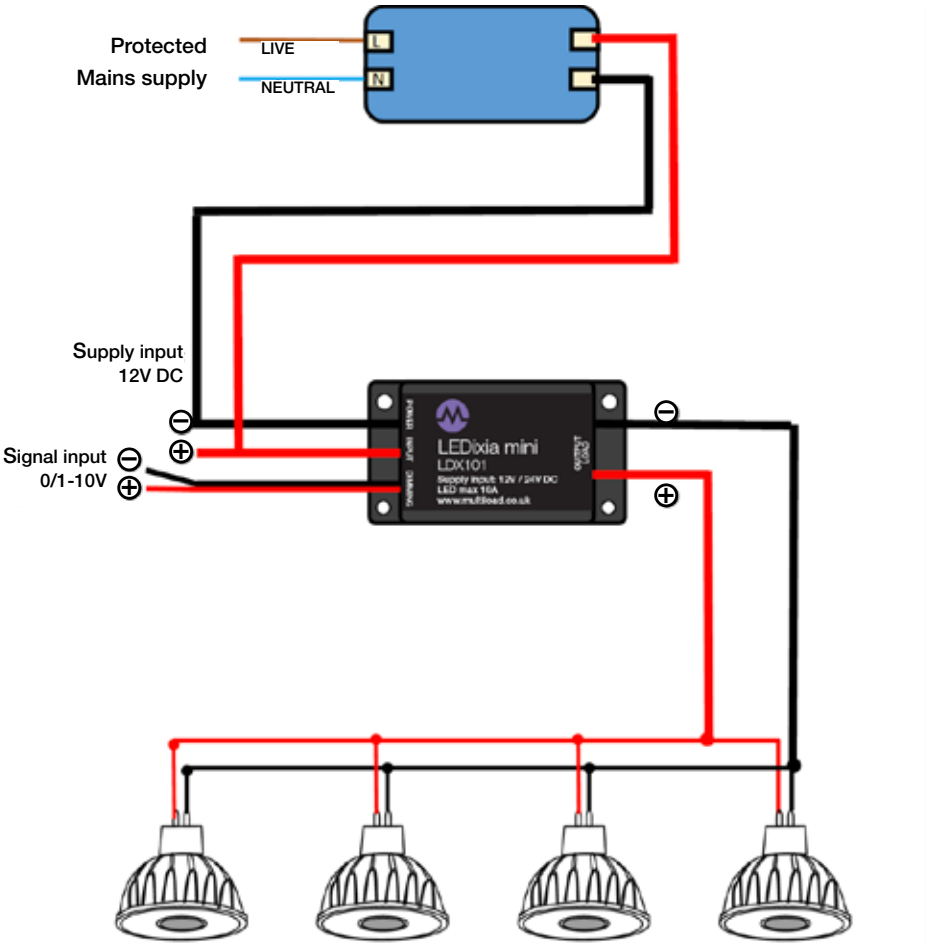
- Installation should be carried out by suitably qualified personnel in accordance with good wiring practice and the appropriate national wiring regulations.
- LEDixia LDX101 is installed by wiring the input power flying leads to the power supply ensuring that polarity of the wiring is maintained. The lamps or strips are to be connected to the output flying leads, again taking care to maintain polarity.
- Before switching on the power it is necessary to connect the dimming control signal which can either be from a (0)/1-10V control signal source or to a 100k potentiometer. Again take care to maintain correct polarity.
- Once all the cabling is connected and secure, the power can be switched on.

Circuit diagrams

The following schematic diagrams are provided:

1 LDX101 controlling 12V lamps
2 LDX101 controlling a 24V strip
3 LDX101 controlling a set of four 12V lamps using a 3-core cable

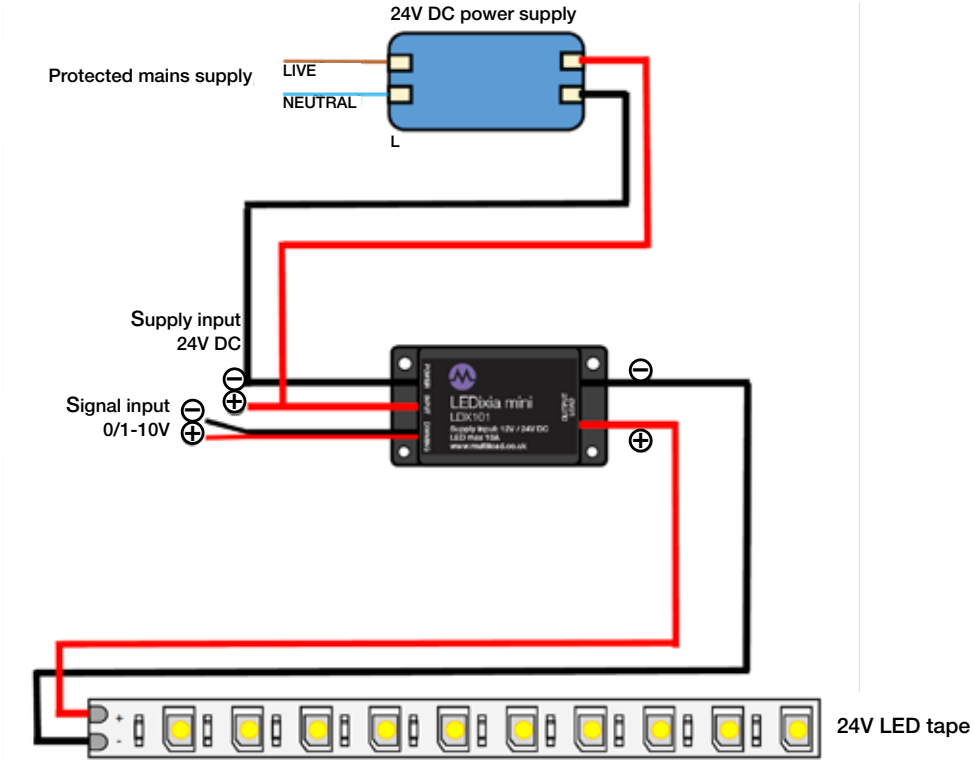
LDX101 controlling a set of four 12V lamps



MR16 12V LEDs

Circuit diagrams

LEDixia LDX101 controlling a 24V strip



LEDixia LDX101 controlling 12V lamps using a 3-core cable.