

USER MANUAL

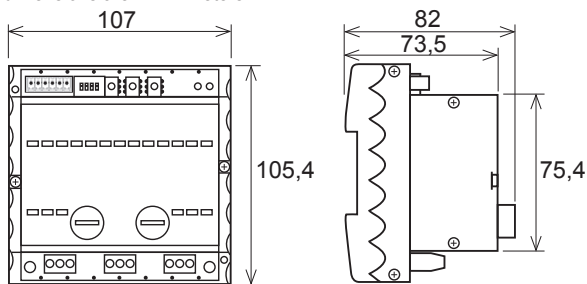
LL DIM2 - Dimmer module

LL08 200



COMPLIMENTS ON YOUR PURCHASE!

All dimensions are in millimeters



Package includes:

- LL DIM2 1 pc.
- User manual 1 pc.

Additional items needed:

- Data and power cables

Content:

01 SAFETY INFORMATION

- 01.1 Safety instructions
- 01.2 Operating restrictions
- 01.3 Fire protection

02 PRODUCT SPECIFICATION

- 02.1 Technical specification
- 02.2 Product description

03 INSTALLATION

- 03.1 Unpacking
- 03.2 Physical installation
- 03.3 Connection
- 03.4 Installation factors
- 03.5 DMX channels

04 MAINTENANCE AND SERVICE

ENVIRONMENTAL PROTECTION

Do not throw away the appliance with the normal household waste at the end of its life, but hand it in at an official collection point for recycling. By doing this, you help to preserve the environment.



01 SAFETY INFORMATION



WARNING!!!

Carefully read before installing, powering or servicing. Nothing to do if anything misunderstand! Installation can be done only by a qualified professional in accordance with relevant local codes.

01.1 Safety instructions



- Shut down power before installation or maintenance of equipment or voltage /data source.
- Do not modify, alter, or attempt to service the LeaderLight appliance. Doing so will void the warranty.
- Connect the ground to the bottom of the box and to terminals!
- Electrical connections, service and maintenance can be performed only by qualified professional.

01.2 Operating restrictions

- This product was designed for indoor use only!
- If the product has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your unit. Leave the unit switched off until it has reached room temperature.
- Do not operate the product in humid, dusty or too hot/cold environments.
- Before connecting, make sure the product is not damaged, wet, or otherwise damaged.
- Unprofessional operation creates the most damages!
- For transport use the original packaging.

01.3 Fire protection

- Follow all safety restrictions.
- Device never cover – the minimum space around the vents must be at least 100mm (4 in.).
- Allowed maximum ambient temperature is 40°C (104°F).

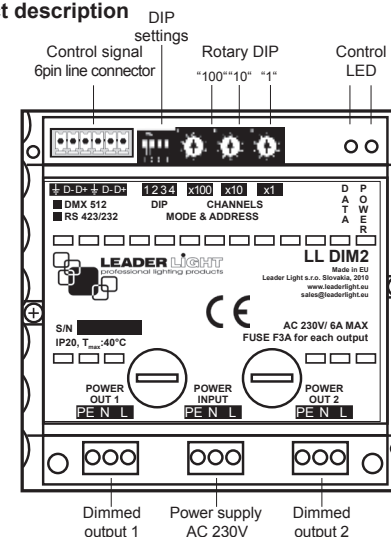


02 PRODUCT SPECIFICATION

02.1 Technical specification

- Power connection:** AC 230V, 6A max.
Output: 2 dimmer circuits 650W, real / inductive loading
Control data: Protocol USITT DMX-512 or RS 423/232 LL defined protocol
Ambient temp. (Ta): 0°C + +40°C
Net weight: 0,36 kg
Dimensions LxWxH: 107mm x 105,4mm x 82mm
Installation: standard DIN installation TS35 – 6DIN

02.2 Product description



Indication of control LEDs (LED power- green, LED data - yellow)

LED	Indication	Status
LED Power	blinking - 2Hz	O.K. - device is working correct
LED Data	not lit	No DMX signal
LED Data	blinking - 4Hz	O.K. - Connected the correct DMX signal
LED Data	fast blinking	ERROR - incorrect digital signal
LED Power & LED Data	alternating blinking	function AutoTest

03 INSTALLATION

03.1 Unpacking

- Unpack carefully.
- This is electronic equipment and should be handled carefully.
- Damaged delivered package or if are any mechanical parts broken – it must be claim immediately by the transport company. Photo pictures as evidence are valuable for future claim.

03.2 Physical installation

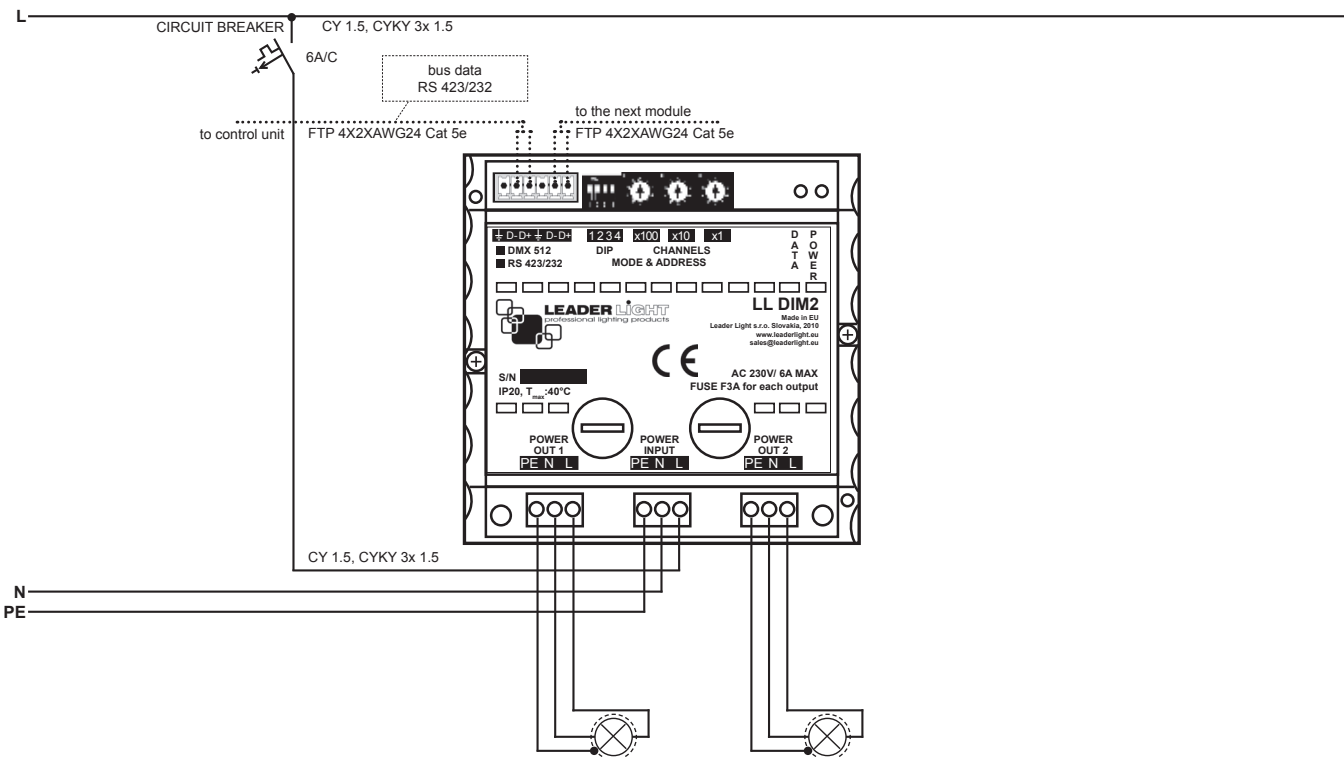
- Loading capacity of bearing area has to be at least 10 times the weight of all device clusters.

03.3 Connection

- Respect all SAFETY INFORMATION 01!
- Connect the ground (earth) to the bottom of the module and to terminals!
- The module is not necessary to dismount before the installation. Power connection is solved simply through connectors and terminals.
- In the case of connecting the power supply with more than a prescribed voltage you can suffer a dangerous electric shock, inflict damage equipment or fire.
- Shut down power supply from all devices before installation of LL DIM2 to end devices.
- Cord symbols (Table 1.1).



Wiring diagram module LL DIM2



Cable:
 — CY 1.5, CYKY 3x 1.5
 FTP 4X2XAWG24 Cat 5e

Table 1.1. Cord symbols

Symbol	Pin	Colour
L	phase	brown / black
N	neutral	blue
⊕	ground (earth)	green-yellow

Feature LL DIM2:

LL DIM2 is 2 channels dimmer of incandescent light (650W / channel), adapted to DIN rail. It has 2 independent outputs that can be individually loaded up to 650VA. Each output is protected by a 3A fuse. High reliability is given by the dimmer concept solutions.

03.4 Installation Factors

- For any indoor and outdoor installation inside the installation box must be add +100mm to each side and must be add ventilation modul.
- For outdoor installation must be add heating modul, if the outdoor temperature is less then 0°C any time!



03.5 DMX channels

These informations are subject to change. latest data are on: www.leaderlight.eu

Mode1:

- Channel 1 = Dimmed Output 1
- Channel 2 = Dimmed Output 2

Feature DipBCD (rotary switch RS1 - "100", RS2 - "10", RS3 - "1"):

- DipBCD = 000 = DMX address 001
- DipBCD = 001 – 512 = DMX address 001 – 512
- DipBCD = 9xx = AutoTest: Fade-Over
- DipBCD = 8xx = AutoTest: all channels on 50%
- DipBCD = 7xx = AutoTest: all channels on 100%
- DipBCD = 6xx = ServiceTest: all channels on 0,10,20,....,90% dependent on DipBCD RS3 - "1"

Feature Dip (switch Dip1, Dip2, Dip3, Dip4):

- Dip1 = On = without function
- Dip2 = On = without function
- Dip3 = On = without function
- Dip4 = On = activation protocol RSX3b (only if power is switched on)

Description of RSX3b protocol is in a separate annex.

04 MAINTENANCE AND SERVICE

- Before any maintenance is necessary to carefully read all **SAFETY INFORMATION 01!**
- Damages caused by inadequate cleaning or maintenance are not covered by warranty.
- Requires periodic cleaning (dust, dirt ,...)

Procedure for maintenance:

- Unplug mains before maintenance and at least 10 minutes cool off.
- Appliance do not illegal open or demount.
- Clean-up dust only from outer surface. Use vacuum or dumpy duster (warm water)
- Before reinstalling make sure everything is intact and dry- no wet parts!

Service:

- Customer service provided by the manufacturer.

