Leader Light s.r.o.
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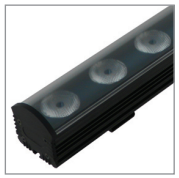
USER MANUAL

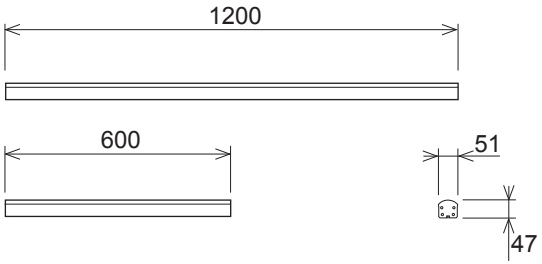
LL PRO LINE

IP65: LL45 100 | LL45 104 | LL45 200 | LL45 204
IP43: LL46 100 | LL46 104 | LL46 200 | LL46 204



COMPLIMENTS ON YOUR PURCHASE!

All dimensions are in millimeters



Following items are included:

- LL PRO LINE with 5m cable and XLR 6pin connector	1 pc.
- LL BRACKET PRO LINE FIX	1 pc.
- User manual	1 pc.

Additional items needed:

- LL PRO DRIVER12/36	1 pc.
- Controller compatible with DMX	1 pc.
- Mounting accessories (brackets)	
- Screws and washers M12	4 pcs.

Content:

01 SAFETY INFORMATION
01.1 Risk of eyes damage
01.2 Protection from electric shock
01.3 Fire prevention
02 PRODUCT SPECIFICATION
02.1 Technical Specification
03 INSTALLATION
03.1 Unpacking
03.2 Physical installation
03.3 Connecting to DC power supply
04 MAINTENANCE

ENVIRONMENT

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.

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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 Risk of eyes damage

- Do not look directly into LED lamps.
- Do not look into light beam from a distance of less than 40 cm (16 inches)!

01.2 Protection from electric shock

- Shut down power before installation or maintenance.
- Luminaries, Driver and recommended power supply must be installed by a qualified professional in accordance with relevant local codes. Only acceptable source of power and frequency that complies with local building and electrical codes to use.
- Do not use or do not connect the products if the power cable, power plug or fixtures are any way damaged, wet, or if they are overheating.
- Do not modify, alter, or attempt to service the LeaderLight appliance. Doing so will void the warranty.
- Before removing or installing any cover or part of appliance disconnect from power.

Operation only with DC 24V source!
By using a high voltage AC power supply - danger of electric shock!

01.3 Fire prevention

- Follow all safety consideration.
- Thermostatic switches or fuses never to bypass.
- Device never shield. Around the axis of the fitting (180°) must be maintained space for cooling. Minimum distance from the surrounding objects must be 50mm (2 in.) (figure 2.1).
- LEDs never direct cover with filters or other materials.
- Allowing max. ambient temperature is 40°C (104°F).
- Luminaries never use without original mounting brackets (fix or adjustable). The housing never install directly to the surface.

02 PRODUCT SPECIFICATION

02.1 Technical Specification

Lamp type: 1200mm: 600mm:	**PRO LINE 50** 12xRGB 3x1W P5 * 24xRGB 3x1W P5 *	**PRO LINE 100** 6xRGB 3x1W P5 * 12xRGB 3x1W P5 *
Lifetime:	Long 50 000 hrs 70% degradation	
Optic:	Standard 25°, on request: 10°, 40°, EL, AS	
Control data Input:	3 channels 24V dimming	
Input power:	24xP5: max.100W, 12xP5: max. 50W, 6xP5: max. 25W	
Power connection:	24V DC 5m cable with XLR 6pin	
Net weight:	1,5kg/2kg	
IP:	IP43, IP65	
Ambient temp. (Ta):	Maximum 40°C	
Cooling:	Conventional	
Materials and finish:	Housing: powder-painted anodized aluminium in black (other colours on request) Cover: clear or frosted PMMA	
Installation:	Surface mounting	

*P5: RGB-Red and Green and Blue

Edition: A - 2010

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 (luminaries, clamps, cables, ...).
- Hairbreadth from combustible materials is 0,5m.

03.3 Connecting to DC power supply

- **To tackle all Safety Information- 01!**
- You can suffer a dangerous electric shock by using a high voltage AC/DC power supply - by touching AC/DC power supply the wires inside the unit!
- LL PRO LINE operate with the LL PRO DRIVER12/36
  In:100-260AC/ Out: 24V (Figure Nr. 3.1, 3.2) or with one luminary driver
  LL PRO RGB DRIVER (Figure Nr. 3.3)
- It is not necessary to open the fixture before connecting to LL PRO DRIVER.
- Pull the XLR 6pin cable connector from fixture to the LL PRO DRIVER.

AC Power Supply Cord plug connections to LL PRO DRIVER:

Symbol	Pin	Wire Colour	Screw (US)
L	live	brown	yellow or brass
N	neutral	blue	silver
⏚	ground (earth)	yellow/green	green

WARNING!!!

Non-minimum distance and / or non-use the original brackets is at your own risk!

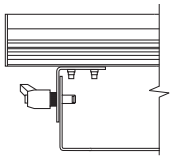
04 MAINTENANCE

- **To tackle all Safety Information- 01!**
- Damage caused by inadequate cleaning or maintenance is not covered by warranty.
- Regular cleaning is demand (dust, dirt, ...).

Maintenance policy:
- 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 (for ex. scuttle, diffuser and lenses)
- Use vacuum or dumpy duster (warm water)
- Before reinstalling to check failure-free state – no wet parts!

MOUNTING ACCESSORIES

LL41 000

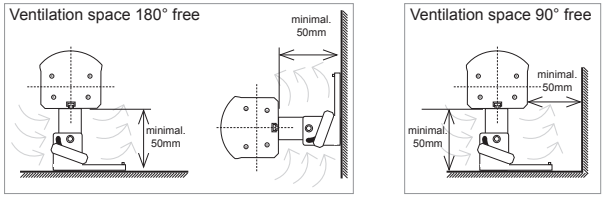


AIMING POSSIBILITY
The fixture could be aim to wish position with the adjustable bracket.

LL PRO LINE with LL41 000 & LL PRO RGB DRIVER

1.1

INSTALLATION

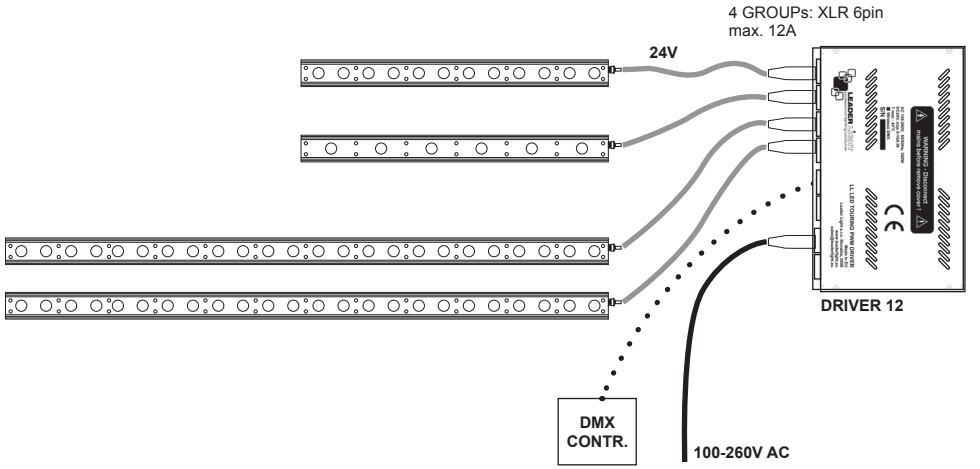


Minimal mounting distance from surface

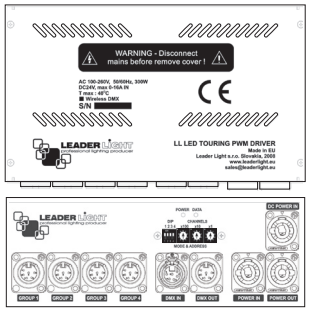
2.1

Order code	Product name	I_c (A)
LL46 100	LL PRO LINE50 OneChip RGB 1200 IP43	3x1,4A
LL46 104	LL PRO LINE50 OneChip RGB 600 IP43	3x0,7A
LL46 200	LL PRO LINE100 OneChip RGB 1200 IP43	3x0,7A
LL46 204	LL PRO LINE100 OneChip RGB 600 IP43	3x0,35A
LL45 100	LL PRO LINE50 OneChip RGB 1200 IP65	3x1,4A
LL45 104	LL PRO LINE50 OneChip RGB 600 IP65	3x0,7A
LL45 200	LL PRO LINE100 OneChip RGB 1200 IP65	3x0,7A
LL45 204	LL PRO LINE100 OneChip RGB 600 IP65	3x0,35A
Accessories:		
LL41 000	LL BRACKET PRO LINE ADJUSTABLE	

LL PRO LINE connecting to LL PRO DRIVER 12

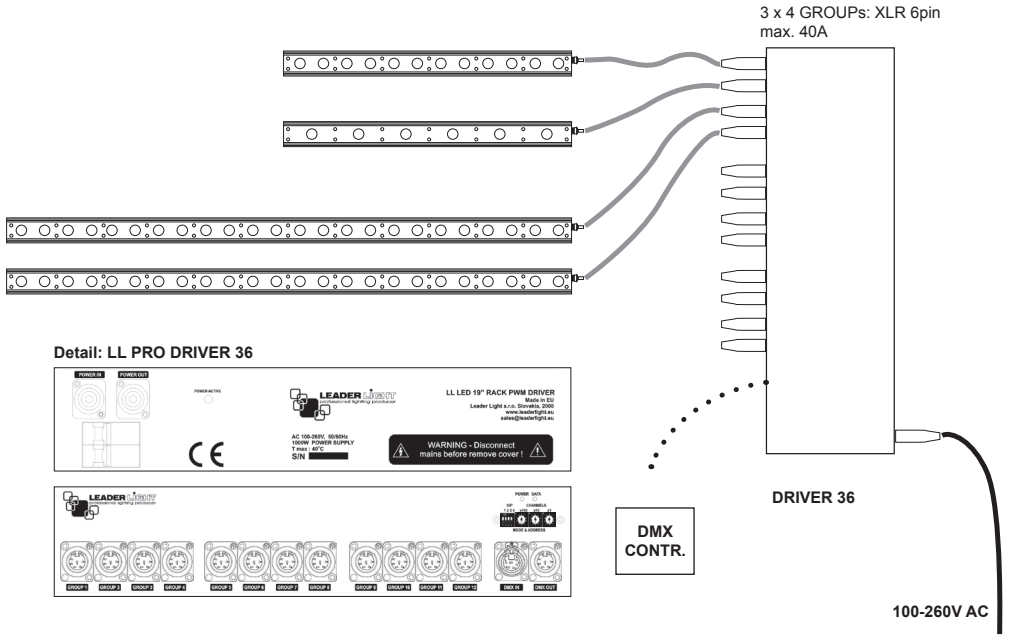


Detail: LL PRO DRIVER 12



3.1

LL PRO LINE connecting to LL PRO DRIVER 36

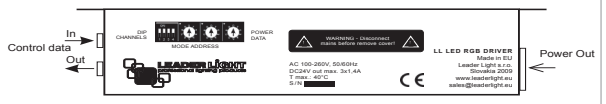


Detail: LL PRO DRIVER 36

3.2

LL PRO LINE connecting to LL PRO RGB DRIVER one luminary connection

Detail: LL PRO RGB DRIVER



3.3