

USER MANUAL

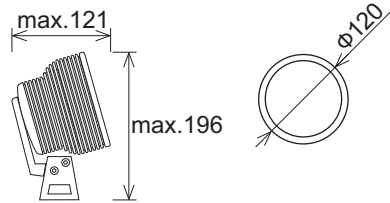
LL LED SPOT Z-POWER DC24V

LL39 400 | LL39 410 | LL39 430x

COMPLIMENTS ON YOUR PURCHASE!



All dimensions are in millimeters



Following items are included:

- LL LED SPOT with 5 m cable and 6 PIN LINE connector 1 pc.
- User manual 1 pc.

Additional items needed:

- LED Driver
- DC power supply 24V
- Controller compatible with DMX

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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.

01 SAFETY INFORMATION



WARNING!!!

Carefully read before installing, powering or servicing.
Nothing to do if anything misunderstand!
Only for professional use!

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 AC 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 it from AC power.

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 1.1).
- LEDs never direct cover with filters or other materials.
- Allowing max. ambient temperature is 40°C (104°F).
- Luminaries never use without mounting brackets. The housing never install directly to the surface.

02 PRODUCT SPECIFICATION

02.1 Technical Specification

Lamp type:	RGB: 5xR+5xG+5xB P4 (Red, Green and Blue) AWB: 5xA+5xW+5xB P4 (Amber, White - 6300K and Blue) OneColour: 15xR/G/B/A/W/N P4 (Red or Green or Blue or Amber or White - 6300K or Neutral White - 3000K)
Lifetime:	Long 60 000 hrs 60% degradation
Optic:	25mm standard 25° optional 10°, 40° and 15°x90° - on request
Control data Input:	RGB/AWB: 3 channels 24V dimming OneColour: 1 channel 24V dimming
Input power:	max. 25W
DC Power Connection:	24V DC 5m cable with 6 pin LINE connector
Net weight:	2,5kg
Dimensions LxHxΦ:	max. 121mm x max. 196mm x 125mm without bracket
IP:	IP65
Ambient temp. (Ta):	Maximum 40°C
Cooling:	Conventional
Materials and finish:	Housing: powder-painted anodized aluminium RAL9006 (other colours on request) Cover: clear or frosted PMMA
Installation:	Any position for ceiling, wall and surface mounting

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, ...).
- Heigbreadth from combustibile materials is 0,5m.

03.3 Electrical installation




- **To tackle all Safety Information- 01!**
- You can suffer a dangerous electric shock by using a high voltage AC/DC power supply - by touching the AC/DC power supply wires inside LL LED SPOT!
- LL LED SPOT can be operated in two ways:
 - 03.3.1 LL LED SPOT connecting to DC POWER SUPPLY - for switch ON/OFF luminaries
 - 03.3.2 LL LED SPOT connecting to LL LED DRIVER - for intensity and colour control

03.3.1 Connecting to DC power supply (Figure Nr. 2.1)

- LL LED SPOT must be connected to the device- MW power supply IN:100-260AC/ OUT: 24V
- It is not necessary to open fixture before connecting to MW power supply.

AC Power Supply Cord plug connections to MW Power Supply:

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

03.3.2 Connecting to LL LED DRIVER (Figure Nr. 2.2)

- For intensity and colour control is necessary connection with LL LED DRIVER.
- It is not necessary to open fixture before connecting to LL LED DRIVER.
- Before installing of LL LED DRIVER carefully read USER MANUAL for LL LED DRIVER.

04 MAINTENANCE



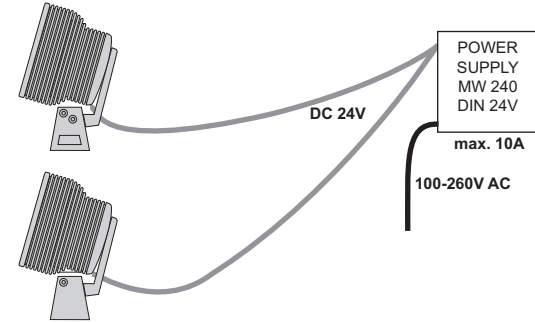
- **To tackle all Safety Information- 01!**
- Damage caused by inadequate cleaning or maintenance is not covered by warranty.
- Regular cleaning is demand (dust, dirt, ...).

Maintenance policy:

- Unplug mains befor maintenance and at least 10 minutes cool off.
- Cleanup dust from cover.
- Use dampy duster (warm watter).
- Before reinstalling to check failure-free state – no wet parts!

Order code	Product name	Current
LL39 400	LL LED SPOT RGB	3x0,35A
LL39 410	LL LED SPOT AWB	3x0,35A
LL39 430x	LL LED SPOT OneColour	1x1,05A

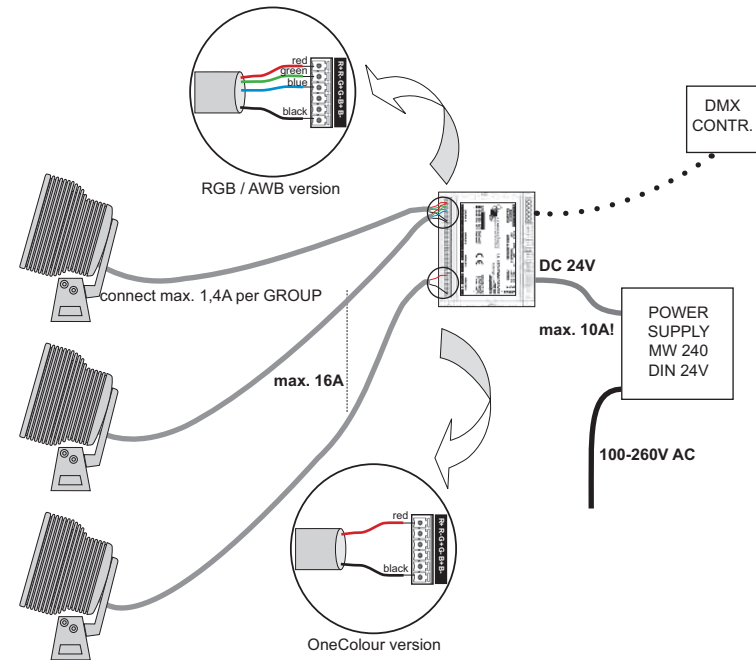
LL LED SPOT connecting to DIN POWER SUPPLY



Connecting LL LED SPOT to DIN POWER SUPPLY enables to switch ON/OFF luminaries.

2.1

LL LED SPOT connecting to PWM DRIVER and DIN POWER SUPPLY



Connecting LL LED SPOT to PWM DRIVER and DIN POWER SUPPLY enables to switch ON/OFF luminaries and in addition intensity and colour control by DMX controller.

2.2

INSTALLATION

Ventilation space 180° free

minimal. 50mm

Ventilation space 90° free

minimal. 50mm
minimal. 100mm

Minimal mounting distance from surface 1.1

WARNING!!!

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

MOUNTING

90°

Aiming possibility
The fixture could be aim to wish position with bracket.