

USER MANUAL

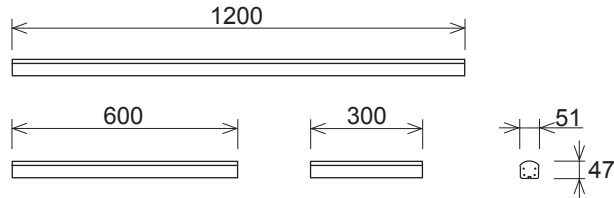
LL ARC LINE

IP43:	LL39 100	LL39 104	LL39 108	LL39 200
	LL39 204	LL39 220	LL39 224	LL39 240
	LL39 244	LL39 300x	LL39 310x	LL39 315x
	LL39 320x	LL39 330x		
IP65:	LL38 100	LL38 104	LL38 108	LL38 200
	LL38 204	LL38 220	LL38 224	LL38 240
	LL38 244	LL38 300x	LL38 310x	LL38 315x
	LL38 320x	LL38 330x		



COMPLIMENTS ON YOUR PURCHASE!

All dimensions are in millimeters



Following items are included:

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

Additional items needed:

- LL ARC DRIVER
- DC power supply 24V
- Controller compatible with DMX
- Mounting accessories (brackets)
- Screws and washers

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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! 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 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 3.1).
- 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:	LINE50 OneChip RGB:	LINE100 OneChip RGB:
1200mm:	24xRGB 3x1W P5 *	12xRGB 3x1W P5 *
600mm:	12xRGB 3x1W P5 *	6xRGB 3x1W P5 *
300mm:	6xRGB 3x1W P5 *	
1200mm:	LINE SoloChip RGB:	LINE SoloChip AWB:
600mm:	12xR+12xG+12xB P4 *	12xA+12xW+12xB P4 *
	6xR+6xG+6xB P4 *	6xA+6xW+6xB P4 *
1200mm:	LINE50 OneColour:	LINE100 OneColour:
600mm:	24x R/G/B/A/W/N P4 *	12x R/G/B/A/W/N P4 *
300mm:	12x R/G/B/A/W/N P4 *	6x R/G/B/A/W/N P4 *
	6x R/G/B/A/W/N P4 *	
Lifetime:	Long 50 000 hrs 70% degradation	
Optic:	Standard 25°, on request: 10°, 40°, EL and AS	
Control data Input:	RGB, AWB: 3 channels 24V dimming OneColour: 1 channel 24V dimming	
Input power:	OneChip RGB	SoloChip RGB/AWB
24xP5: max. 100W	1200mm: 50W	24xP4: max. 34W
12xP5: max. 50W	600mm: 25W	12xP4: max. 17W
6xP5: max. 25W		6xP4: max. 8,5W
Power connection:	24V DC 5m cable with 6pin LINE connector	
Net weight:	1200mm/600mm/300mm: 2kg/1,5kg/1kg	
IP:	Indoor: IP43, Outdoor: 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:	Surface mounting	

*P5: R-Red, G-Green and Blue

*P4: R-Red, G-Green, B-Blue, A-Amber, W-White (6300°K), N-Neutral White (3000°K)

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 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 ARC LINE!
- LL ARC LINE can be operated in two ways:
 - 03.3.1 LL ARC LINE connecting to DC POWER SUPPLY - for switch ON/OFF luminaries
 - 03.3.2 LL ARC LINE connecting to LL ARC DRIVER - for intensity and colour control

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

03.3.1 Connecting to DC power supply (Figure Nr. 1.1)

- LL ARC LINE 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 ARC DRIVER (Figure Nr. 1.2)

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

Order code	Product name	I _c (A)
IP65		
LL38 100	LL ARC LINE50 OneChip RGB 1200	3x1,4A
LL38 104	LL ARC LINE50 OneChip RGB 600	3x0,7A
LL38 108	LL ARC LINE50 OneChip RGB 300	3x0,35A
LL38 200	LL ARC LINE100 OneChip RGB 1200	3x0,7A
LL38 204	LL ARC LINE100 OneChip RGB 600	3x0,35A
LL38 220	LL ARC LINE100 RGB 1200	3x0,7A
LL38 224	LL ARC LINE100 RGB 600	3x0,35A
LL38 240	LL ARC LINE100 AWB 1200	3x0,7A
LL38 244	LL ARC LINE100 AWB 600	3x0,35A
LL38 300x **	LL ARC LINE50 OneColour 1200	1x1,4A
LL38 310x **	LL ARC LINE50 OneColour 600	1x0,7A
LL38 315x **	LL ARC LINE50 OneColour 300	1x0,35A
LL38 320x **	LL ARC LINE100 OneColour 1200	1x0,7A
LL38 330x **	LL ARC LINE100 OneColour 600	1x0,35A

IP43		
LL39 100	LL ARC LINE50 OneChip RGB 1200	3x1,4A
LL39 104	LL ARC LINE50 OneChip RGB 600	3x0,7A
LL39 108	LL ARC LINE50 OneChip RGB 300	3x0,35A
LL39 200	LL ARC LINE100 OneChip RGB 1200	3x0,7A
LL39 204	LL ARC LINE100 OneChip RGB 600	3x0,35A
LL39 220	LL ARC LINE100 RGB 1200	3x0,7A
LL39 224	LL ARC LINE100 RGB 600	3x0,35A
LL39 240	LL ARC LINE100 AWB 1200	3x0,7A
LL39 244	LL ARC LINE100 AWB 600	3x0,35A
LL39 300x **	LL ARC LINE50 OneColour 1200	1x1,4A
LL39 310x **	LL ARC LINE50 OneColour 600	1x0,7A
LL39 315x **	LL ARC LINE50 OneColour 300	1x0,35A
LL39 320x **	LL ARC LINE100 OneColour 1200	1x0,7A
LL39 330x **	LL ARC LINE100 OneColour 600	1x0,35A

Accessories

LL41 100	LL BRACKET ARC LINE ADJUSTABLE SINGLE (pack 2pcs)
LL41 110	LL BRACKET ARC LINE ADJUSTABLE DUAL (pack 2pcs)
LL41 120	LL BRACKET ARC LINE ADJUSTABLE TRIPLE (pack 2pcs)

** Note: x = 1(Red), 2(Green), 3(Blue), 4(Amber), 5(White-6300°K), 6(Neutral White-3000°K)

04 MAINTENANCE

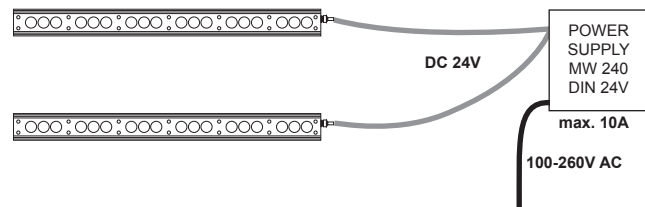
- To tackle all Safety Information- 01!
- Damage caused by inadequate cleaning or maintenance is not covered by warranty.
- Regular cleaning is demand (dust, dirt, ...).



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!

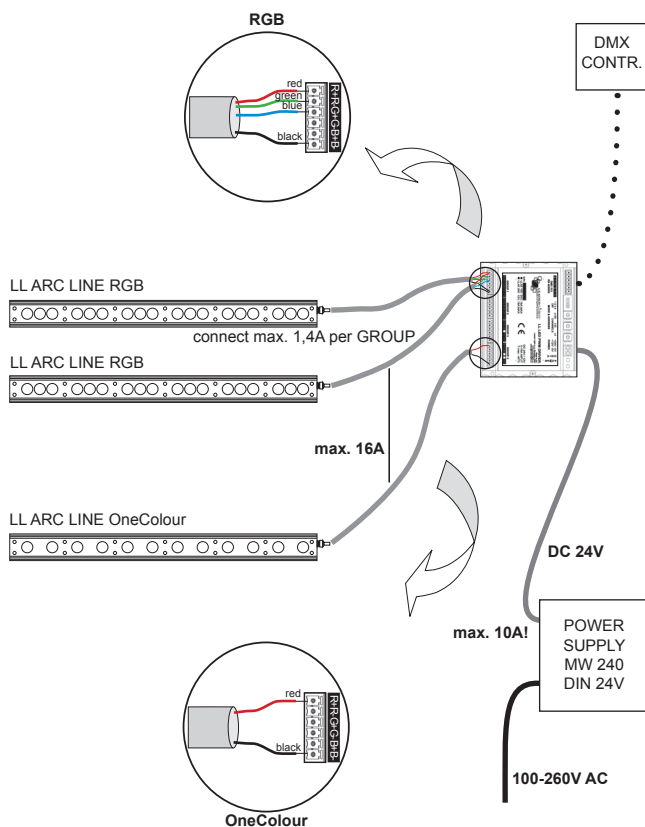
LL ARC LINE connecting to DIN POWER SUPPLY.



LL ARC LINE connecting to DIN POWER SUPPLY enables to switch ON/OFF luminaries.

1.1

LL ARC LINE connecting to PWM DRIVER and DIN POWER SUPPLY.

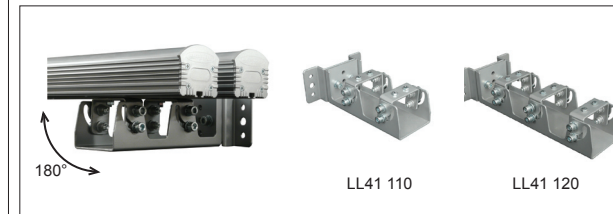


LL ARC LINE connecting to PWM DRIVER and DIN POWER SUPPLY enables to switch ON/OFF luminaries and in addition intensity and colour control by DMX controller.

1.2

MOUNTING ACCESSORIES

Mounting on wall is easy using various adjustable wall brackets. Seen below.

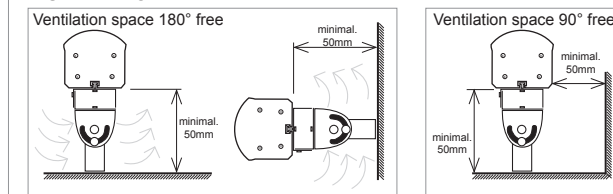


Mounting with LL BRACKET LINE ADJUSTABLE.



2.1

INSTALLATION



Minimal mounting distance from surface

3.1

WARNING!!!



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