

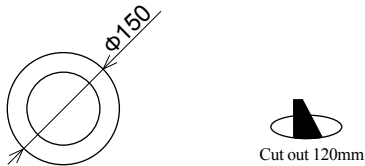
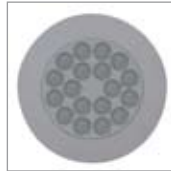
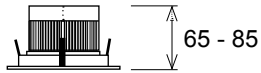
## USER MANUAL

### LL ARC DOWNLIGHT 18

LL31 710 LL31 720

#### COMPLIMENTS ON YOUR PURCHASE!

All dimensions are in millimeters



#### Following items are included:

- LL ARC DOWNLIGHT 18 with 5m cable and 6pin LINE connector 1 pc.
- User manual 1 pc.

#### Additional items needed:

- ARC DRIVER
- DC power supply 24V
- Controller compatible with DMX

#### Content:

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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 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.
- LEDs never direct cover with filters or other materials.
- Allowing max. ambient temperature is 40°C (104°F).



#### 02 PRODUCT SPECIFICATION

##### 02.1 Technical Specification

Lamp type:	18 x Z5 *
Lifetime:	Long 50 000 hrs 70% degradation
Optic:	Standard: Fresnel optic 40-65° On request: 10°, 25°, 40°
Control data Input:	1 channel 24V dimming
Input power:	max. 20W
Power connection:	24V DC 5m cable with 6pin LINE connector
Net weight:	1kg
IP:	IP20
Ambient temp. (Ta):	Maximum 40°C
Cooling:	Conventional
Materials and finish:	Powder-painted anodized aluminium RAL9006 (other colours on request)
Installation:	Recessed mounting

\*Z5:  W-White (6300°K),  WW-Warm White (3000°K)

#### 03 INSTALLATION

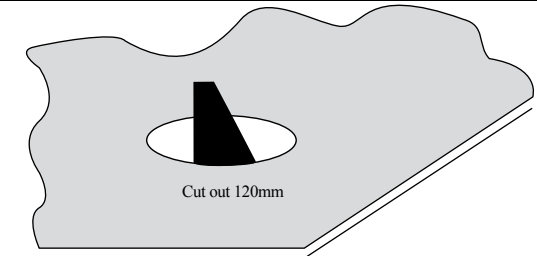
##### 03.1 Unpacking

- 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.

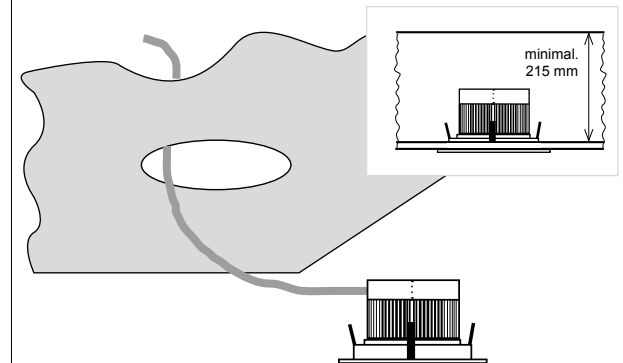
##### 03.2 Physical installation

- 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.

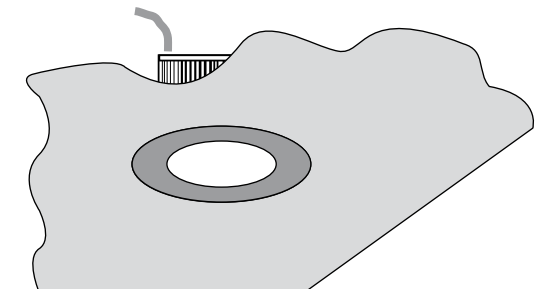
##### Suspended installation



1.1.1. Cut hole in suspended ceiling. The allowed thickness of ceiling material is max. 12mm.



1.1.2. Connect the fixture to the DC power supply.



1.1.3. Fit the decoration ring in the suspended ceiling.

1.1

### 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 DOWNLIGHT 18!
- LL ARC DOWNLIGHT 18 can be operated in two ways:
  - 03.3.1 LL ARC DOWNLIGHT 18 connecting to DC POWER SUPPLY - for switch ON/OFF luminaries
  - 03.3.2 LL ARC DOWNLIGHT 18 connecting to LL ARC DRIVER - for intensity and colour control

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

- LL ARC DOWNLIGHT 18 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. 2.2)

- 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.

## 04 MAINTENANCE



#### - To tackle all Safety Information- 01!

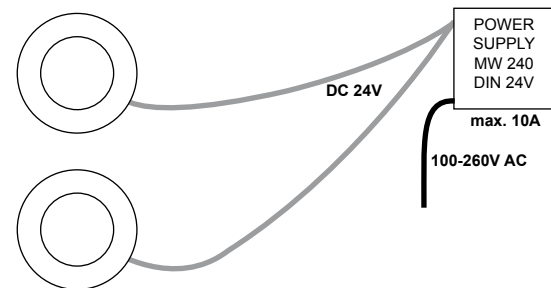
- Damage caused by inadequate cleaning or maintenance is not covered by warranty.
- Regular cleaning is demand (dust, dirt, ...).

#### 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. diffuser).
- Use vacuum or dumpy duster (warm water)
- Before reinstalling to check failure-free state – no wet parts!

Order code	Product name	I <sub>c</sub> (A)
LL31 710	LL ARC DOWNLIGHT 18 W	1x1,05A
LL31 720	LL ARC DOWNLIGHT 18 WN	1x1,05A

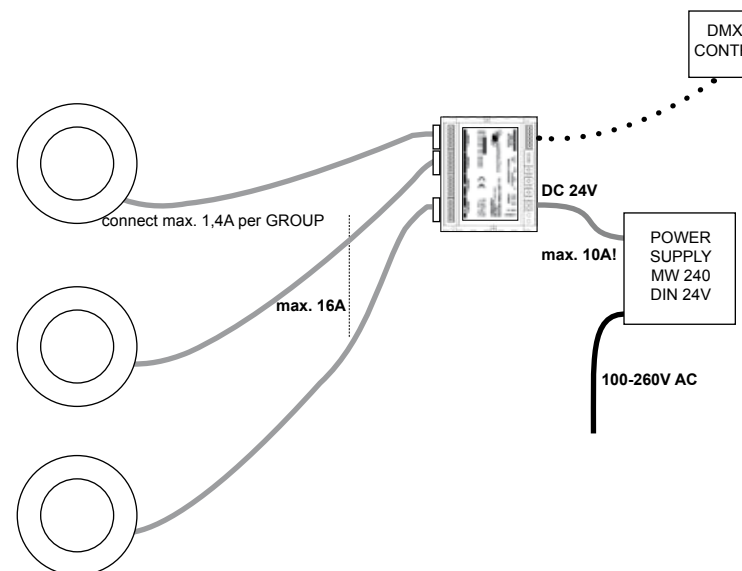
### LL ARC DOWNLIGHT 18 connecting to DIN POWER SUPPLY



Connecting LL ARC DOWNLIGHT 18 to DIN POWER SUPPLY enables to switch ON/OFF luminaries.

2.1

### LL ARC DOWNLIGHT 18 connecting to ARC DRIVER and DIN POWER SUPPLY



Connecting LL ARC DOWNLIGHT 18 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