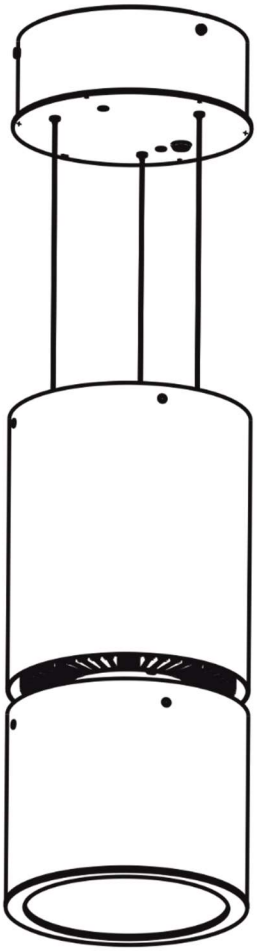
Ambiane XP56 Pendant



Version 1.8

USER MANUAL

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1. Attention

Dangerous voltage constituting a risk of electric shock is present within this unit

The unit must be installed by a qualified electrician in accordance with all national and local electrical and construction codes and regulations.

The unit was designed for indoor use only.

Do not install the unit near highly inflammable liquids or materials.

Do not allow anything to rest on the unit.

Do not install the unit near an open flame.

Do not install the unit in dirty, dusty or badly ventilated location.

Avoid looking directly into the light beam at close range!

A ceiling (structure) intended for installation of the unit(s) must safely hold at least 5 times the weight of the unit(s) fastened on it.

The fixture must be grounded.

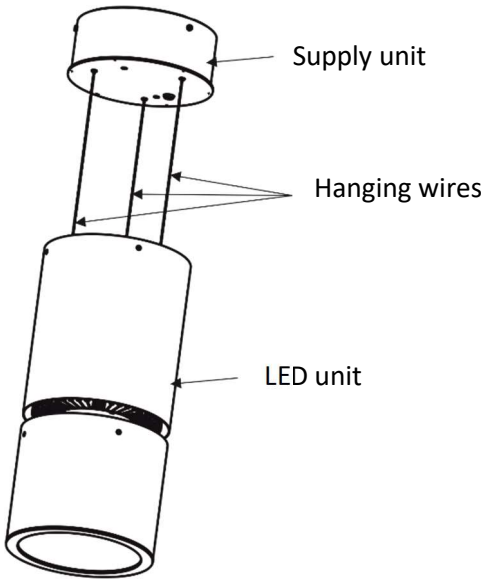
The supply unit is suitable for fastening on non-flammable surfaces only. 

Immunity of the equipment is designed for electromagnetic environments E1, E2, E3 according to the standard EN55103-2 ed.2 Electromagnetic compatibility. Product family standard for audio, video, audiovisual and entertainment lighting control apparatus for professional use. Part 2: Immunity.
The product (covers and cables) must not be exposed to a high frequency electromagnetic field higher than 3V/m.

The installation company should check levels of possible interferences above the tested levels E1,E2,E3 given by this standard (e.g. transmitters in surrounding area) before installing the equipment.

Emission of the equipment complies with the standard EN55032 Electromagnetic compatibility
of multimedia equipment – Emission Requirements according to class B.

2. Fixture exterior view

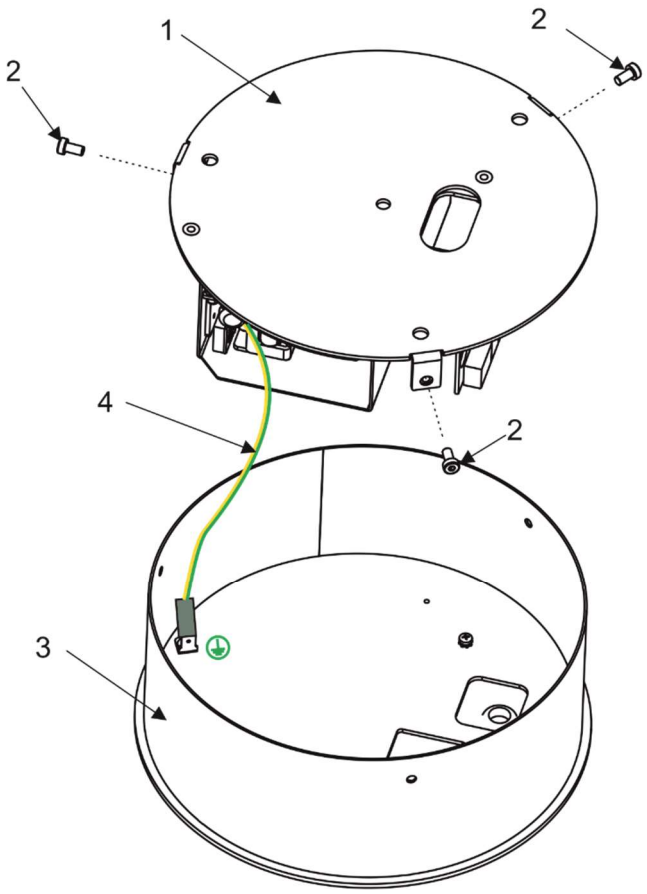


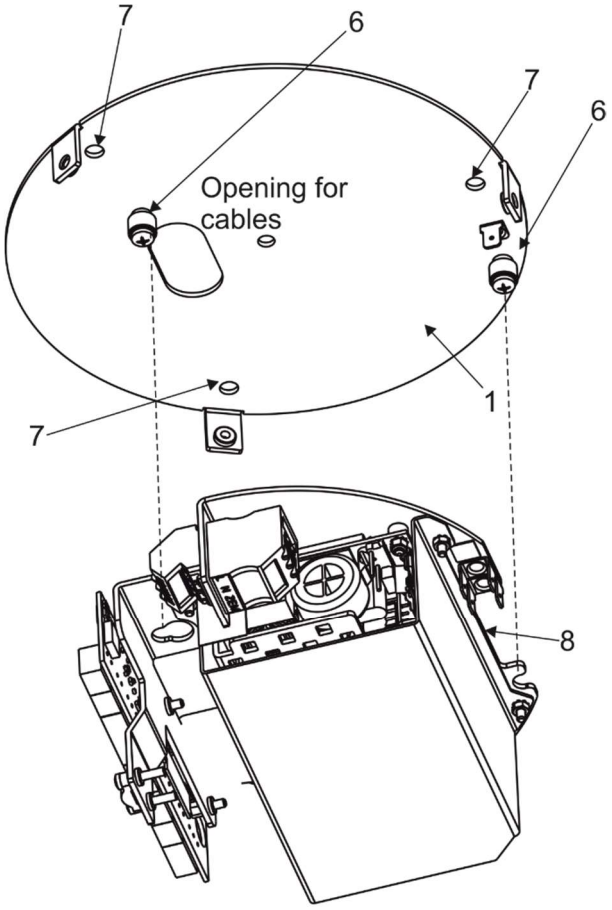
3. Installation

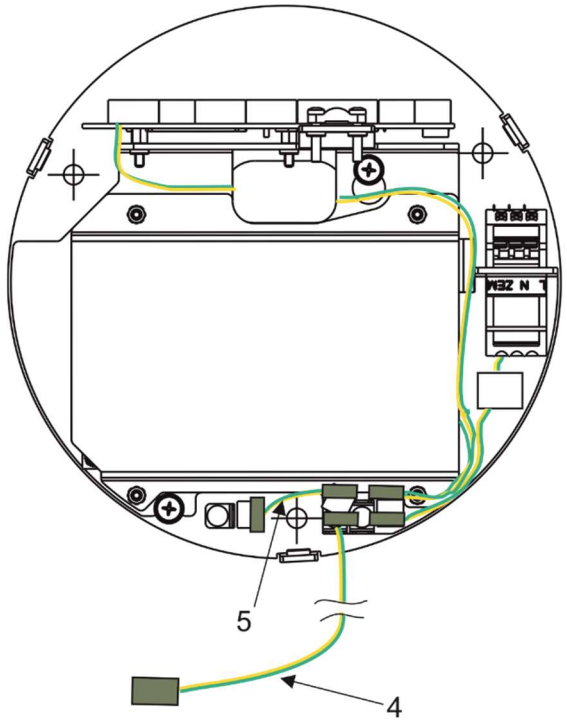
Always switch off power supply of the supply unit before connecting or disconnecting the supply unit or light unit.

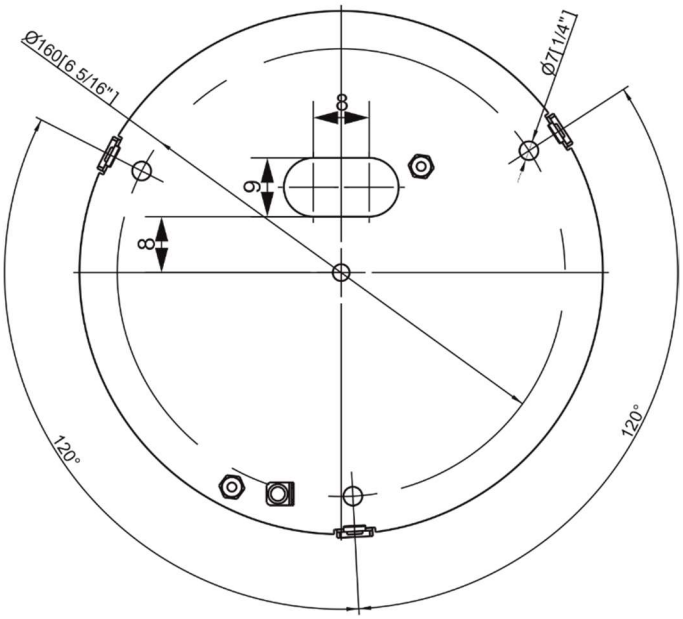
1. Unscrew the three screws (2) on the side of the bottom cover (3) of the supply unit and remove the bottom cover. Before removing it, disconnect the grounding wire (4).
2. Disconnect the grounding wire (5) from the supply module (8) and remove the supply module from the top cover (1) of the supply unit by loosening the two screws (6).
3. Prepare three holes (2) for fastening of the top cover and the hole for power and data cables in the ceiling .
4. Fasten the top cover (1) of the supply module (8) by means of three holes (7) and screws. Pass data and power cables through the cable opening.
5. Fasten the supply module (8) back on the top cover (1) of the supply unit by means of two screws (6) and connect the grounding wire (5).

The ceiling (or another structure) intended for installation of the Ambiane XP56 Pendant(s) must safely hold at least 5 times weight of the Ambiane XP56 Pendant(s) placed on it.

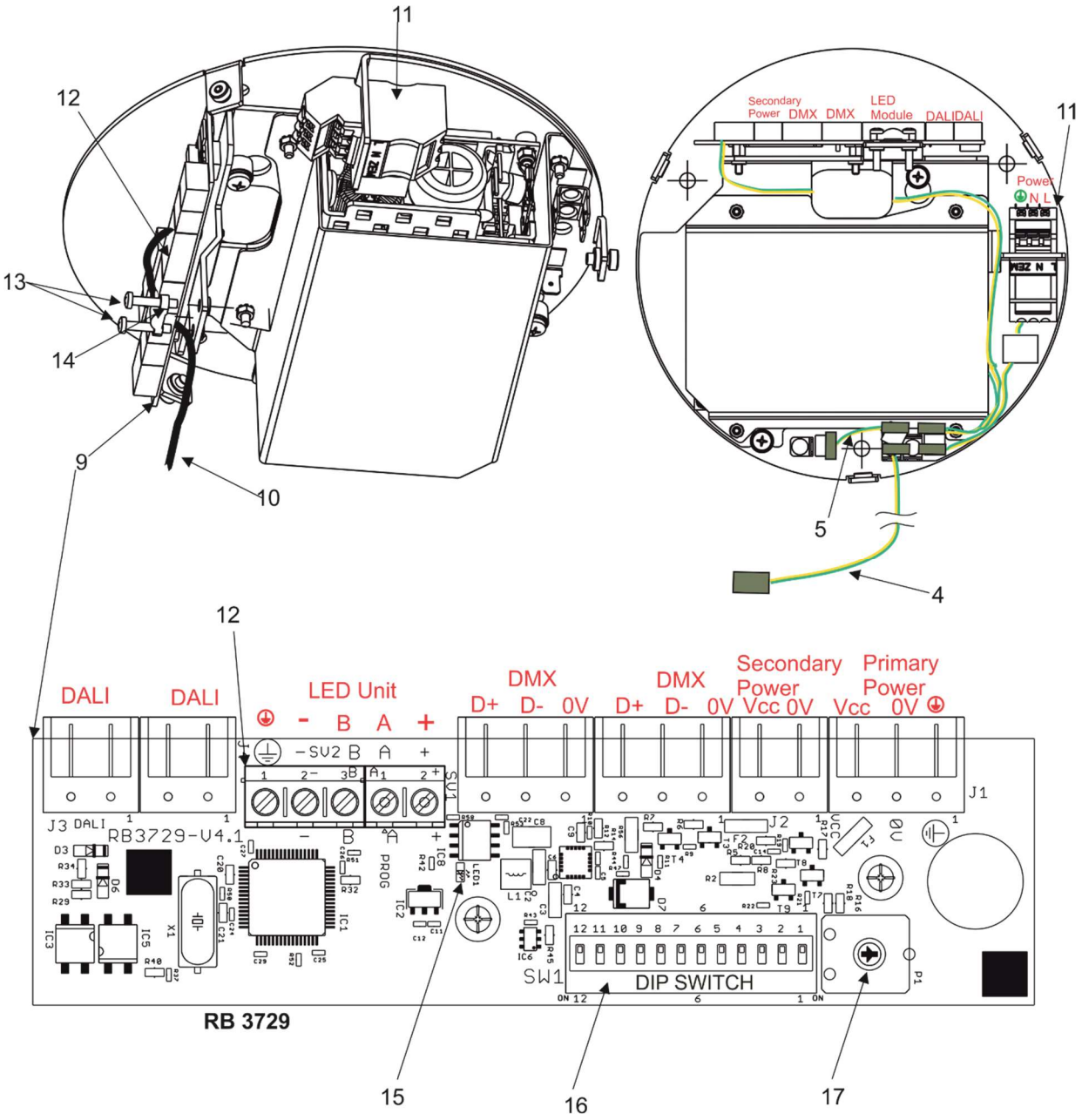

1
2
2
4
2
3


7
6
7
6
Opening for cables
7
1
8


5
4


Ø160[6 5/16"]
Ø7[1/4"]
8
9
8
120°
120°

6. Connect a power cable to the terminal block (11), install connectors on data cables and the secondary power cable and connect them to the PCB RB 3729 (9).



7. Pull the LED unit cable (10) through the bushing in the bottom cover (3) of the supply unit and connect it to the terminal block (12) and secure it by means of the clamp (14) and two screws (13).

LED unit connection

Terminal block	**+**	**A**	**B**	**-**	⏚
Function	LEDs +	Data A	Data B	LEDs -	Ground
Wire	Red	White	Blue	Black	Green/yellow

Power connection

	L	**N**	⏚
Wire (EU)	Braun	Blue	Green/yellow
Wire (US)	Black	White	Green

This device must be grounded!

Secondary power connection

Connector	**Vcc**	**0V**
Function	Power +	Power -

DMX connection

Connector	**D+**	**D-**	**0V**
Function	Data +	Data-	Data ground(shielding)

0-10V connection

Connector	**D+**	**0V**
Function	+10V	0V

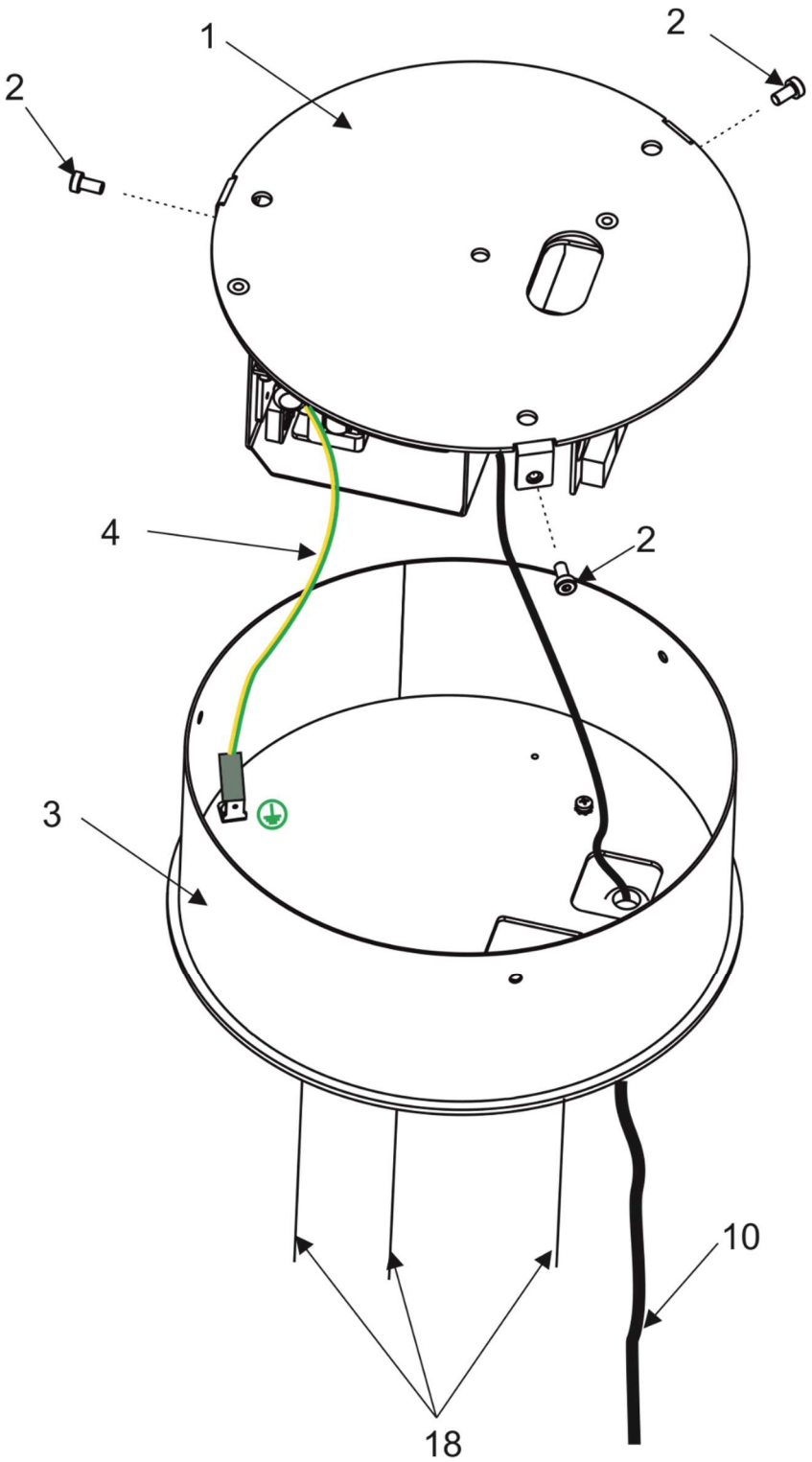
DMX connectors are used for 0-10V control

Note: The trimmer (17) allows you to set a light intensity (for secondary power only).
The secondary power input serves for a backup power (in case that primary power failed).
If both power inputs are under voltage, the primary power has a priority and the secondary power is disabled. In case of primary power loss, the secondary power is enabled.
If the fixture is supplied via the secondary power, the light output of the fixture is a white colour 3200K (RGBW, TW version).

8. Set the DIP switch (16) to positions according to your operation mode.
The fixture can be controlled by one of the following methods: DMX 512
DALI
0-10V (PW or TD version only)

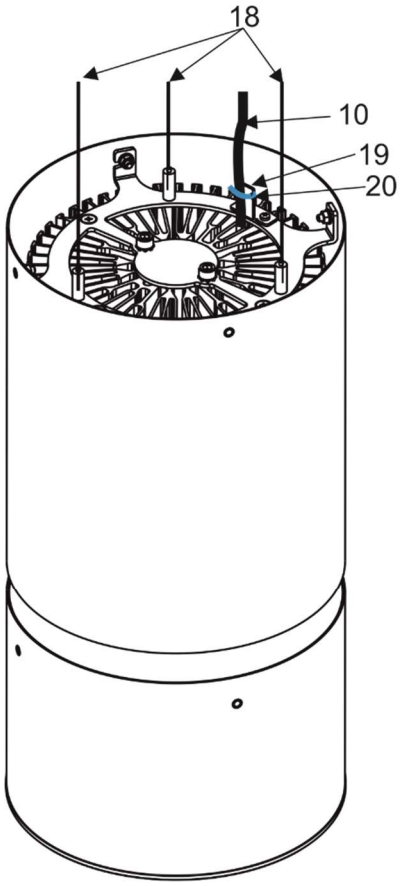
The fixture is equipped with two DMX and DALI connection blocks (on the PCB RB 3729) for easy connection to a DMX or DALI chain (In/Out method).

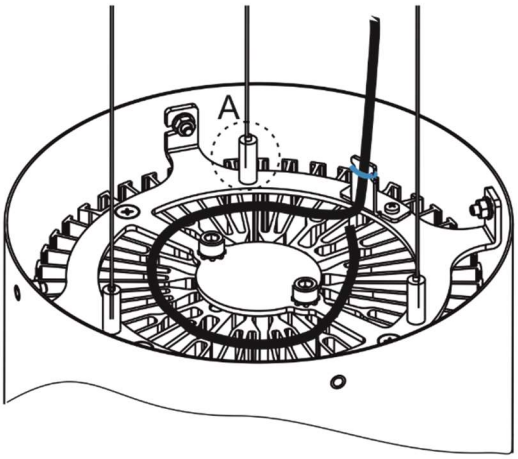
9. Connect the grounding wire (4) to the the bottom cover (3).
10. Place the bottom cover (3) on the top cover (1) and secure it by means of three screws M4x8 (2).



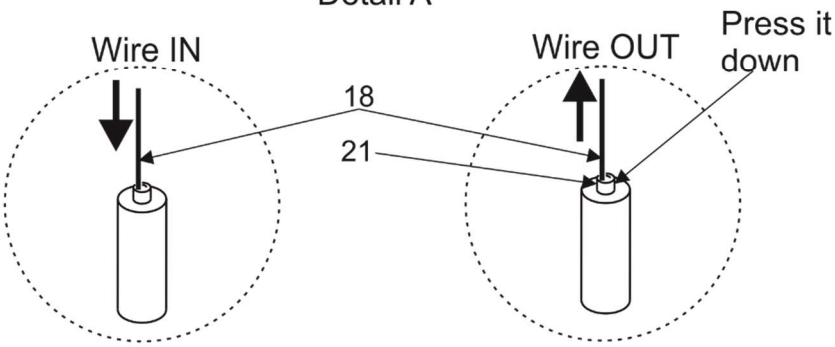
11. Set desired position of the LED unit by means of the three hanging wires (18). If you need to pull the wire (18) out of the LED unit, you have to press and hold the top part (21) of the wire lock.
12. Fasten the LED unit supply cable (10) to the to the holder (19) using a cable binder (20).

Length of the LED unit supply cable (10) should be adequate, it is not suitable to make "loops" of cable on the LED unit heatsink. Max. one cable "loop" can be created.



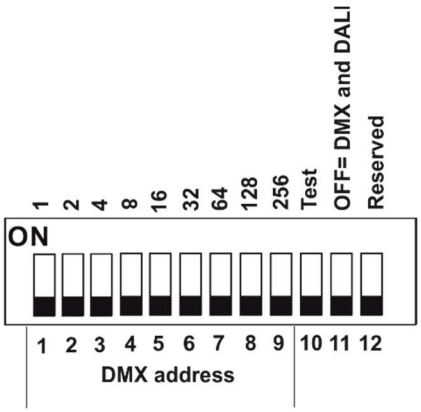


Detail A



3.1. DMX and DALI address setting and control

The DIP switch on the control PCB (RB3729) allows you to set DMX address and run a test light.



DIP 10 - if it is switched to ON=test light (the fixture lights at 3200K (for RGBW and TW version))
DIP 11 - has to be switched to OFF position to receive DMX 512 and DALI, position ON=0-10V control

Note: If DIP 11=OFF (fixture is controlled by DMX and DALI), the last coming command switches the fixture to the corresponding operation mode (DMX operation by a DMX command, DALI operation by a DALI command). E.g. the fixture stays in a DALI operation and last coming command is a DMX command which switches the fixture to DMX operation. Next command is a DALI command and switches the fixture to the DALI operation etc.

If you need the permanent DALI operation, you have to send a DALI command 8 to the fixture.

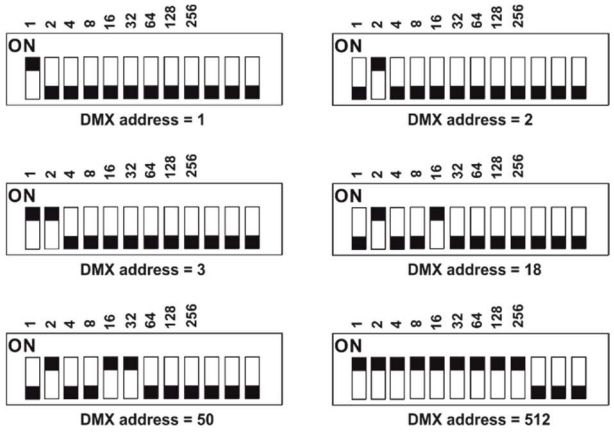
DMX control

The DMX start address, is the first channel used to receive instructions from the DMX controller. The address may be any channel from 1 to 512. DMX address can be set either by DIP switch or by RDM. DMX address set by RDM overwrites address set by DIP switch and vice versa. The green LED (15) on PCB signals way of DMX address setting:

LED lights-DMX address is set by means of the DIP switch.
LED does not light-DMX address is set by means of RDM.

The DIP 11 has to be set to OFF position.

Example of DMX addresses:



DALI control
Addressing of the fixture has to be made by means of an external DALI controller.
If you need to start the permanent DALI control of the fixture (fixture will not respond to DMX commands), the external DALI controller has to send activating command (8=ON).
If you need to stop the permanent DALI control of the fixture, the external DALI controller has to send deactivating command (0=OFF).

2.2 0-10V control

DIP 11 has to be set in ON position. 0-10V operation has priority to DALI and DMX commands. The option is applicable for the PW and TD version of the Ambiane XP56 Pendant only.

4. RDM

This fixture supports RDM operation. RDM (Remote Device Management) is a bi-directional communication protocol for use in DM X512 control systems, it is the new open standard for DMX512 device configuration and status monitoring.
RDM allows you to set a DMX address, select DMX mode, readout software version of the fixture etc. It is also used for fixture software update by means of the Robe Uploader.

RDM model ID for the Ambiane XP56 Pendant is 0x0109.

Parameter ID	**Discovery command**	**SET command**	**GET command**
DISC_UNIQUE_BRANCH	*		
DISC_MUTE	*		
DISC_UN_MUTE	*		
DEVICE_INFO			*
SUPPORTED_PARAMETERS			*
SOFTWARE_VERSION_LABEL			*
DMX_START_ADDRESS		*	*
IDENTIFY_DEVICE		*	*
DEVICE_MODEL_DESCRIPTION			*
MANUFACTURER_LABEL			*
DEVICE_LABEL		*	*
DMX_PERSONALITY		*	*
DMX_PERSONALITY_DESCRIPTION			*
RESET_DEVICE		*	
SENSOR_VALUE		*	*
SENSOR_DEFINITION			*
SLOT_INFO			*
SLOT_DESCRIPTION			*
DEFAULT_SLOT_VALUE			*
PARAMETER_DESCRIPTION			*

5. DMX protocols

Variant RGBW, version 1.1

Mode 1 Channel	**Mode 2** Channel	**Mode 3** Channel	**Mode 4** Channel	**Mode 5** Channel	**DMX value**	**Function**	**Type of control**
1	1	1	-	1	0-255	**Red** Red LEDs saturation control (0-->100%)	proportional
-	-	2	-	-	0-255	**Red Fine** Red LEDs saturation control (0-->100%)	proportional
2	2	3	-	2	0-255	**Green** Green LEDs saturation control (0-100%)	proportional
-	-	4	-	-	0-255	**Green Fine** Green LEDs saturation control (0-->100%)	proportional
3	3	5	-	3	0-255	**Blue** Blue LEDs saturation control (0 -->100%)	proportional
-	-	6	-	-	0-255	**Blue Fine** Blue LEDs saturation control (0-->100%)	proportional
4	-	7	-	4	0-255	**White** White LEDs saturation control (0-->100%)	proportional
-	-	8	-	-	0-255	**White Fine** White LEDs saturation control (0-->100%)	proportional
-	-	9	1		0 1-127 128 129-255	**Green correction** Uncorrected white Minus green --> uncorrected white Uncorrected white (128=default) Uncorrected white --> Plus green	step proportional step proportional
-	-	10	2		0 1-10 11-20 21-255	**Colour temperature correction (CTC)** No function (0=default) Tungsten dimming 2700 K Tungsten dimming 3200 K Colour temperature changing 2700 K--> 6500 K	step step step proportional
-	-	11	3	5	0-255	**Dimmer** Light intensity coarse (0-->100%)	proportional
-	-	12	-	6	0-255	**Dimmer Fine** Light intensity fine (0-->100%).	proportional

DMX mode has to be set by RDM.

Variant TW, version 1.1

Mode 1 Channel	**Mode 2** Channel	**DMX** value	**Function**	**Type of control**
1	-	0-255	**White colour selection** White from 2700K-->4000K	proportional
-	1	0-255	**Warm White** Warm white LEDs saturation control (0-->100%)	proportional
-	2	0-255	**Cool White** Cool white LEDs saturation control (0-->100%)	proportional
2	3	0-255	**Dimmer** Light intensity (0-->100%)	proportional

Variant TD, PW version 1.1

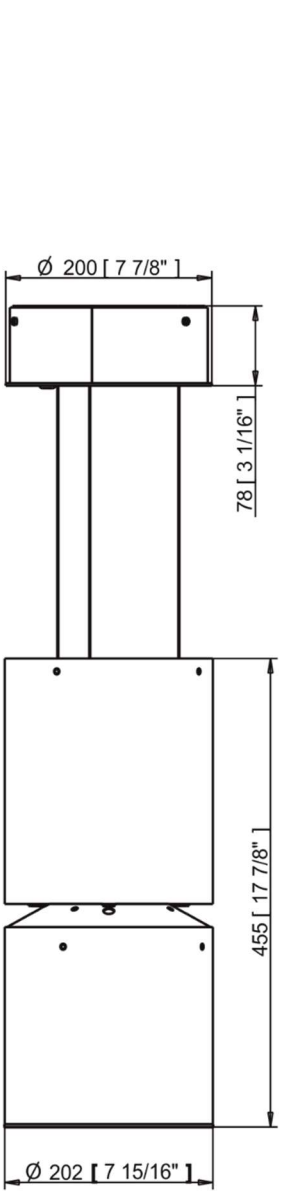
Mode 1 Channel	**Mode 2** Channel	**DMX** value	**Function**	**Type of control**
1	1	0-255	**Dimmer** Light intensity coarse (0-->100%)	proportional
-	2	0-255	**Dimmer Fine** Light intensity (0-->100%)	proportional

6. Technical specifications

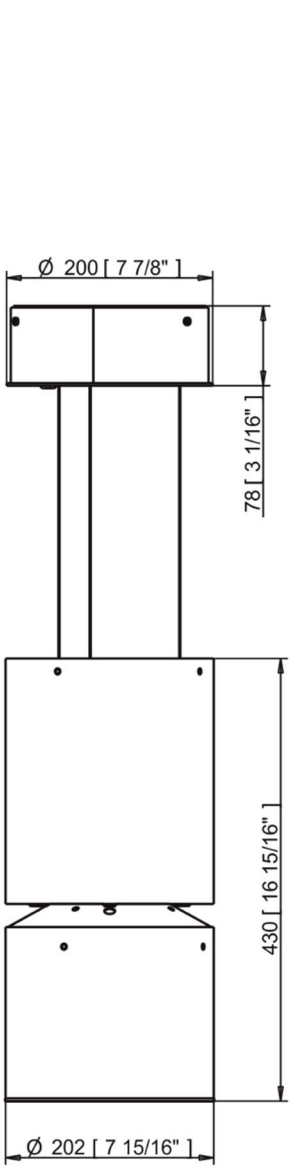
Input voltage:	100 - 277V AC, 50-60 Hz
Max. power consumption:	175W (power factor 0.96)
Light source:	High Power LED module
Beam angle:	20°, 30°,45°, 60°
Projected Lumen Maintenance:	60.000 hrs (L70 @ 25 °C / 77 °F)
Colour Variants:	RGBW (W - 2700K or 4000K), PureWhite, Tunable White, Tungsten Dim
Colour Temperature of White:	PW 2700K or 4000K, TW 2700-4000K
CRI:	90+
Control:	DMX, DALI , RDM, 0-10V
Settings/Addressing:	DIP Switch, RDM
DMX channels (RGBW variant):	4 (Mode 1), 3 (Mode 2), 12 (Mode 3), 3 (Mode 4), 6 (Mode 5)
DMX channels (TW variant):	2 (Mode 1), 3 (Mode 2)
DMX channels (TD, PW variant):	2 (Mode 1), 2 (Mode 2)
Operating ambient temp. range:	-20 °C / +40 °C (-4 °F / +104 °F)
Operating Temperature (LED unit):	+75 °C @ Ambient +40 °C (167 °F @ Ambient 104 °F)
Operating Temperature (Supply unit):	+70 °C @ Ambient +40 °C (158 °F @ Ambient 104 °F)
Total heat dissipation:	580 BTU/h (calculated)
Cooling:	Convection
Housing:	High Pressure Die-Cast Aluminium Body
Weight:	
Ambiane XP56 Pendant 20°	11,2 kg/ 24.69 lbs
Ambiane XP56 Pendant 30°	11,2 kg/ 24.69 lbs
Ambiane XP56 Pendant 45°	10,9 kg/ 24,03 lbs
Ambiane XP56 Pendant 60°	10,9 kg/ 24,03 lbs
Mounting Method:	Pendant with 3 adjustable hanging wires
IC rating:	Non-IC rated
DMX/DALI connection:	Connectors
LED unit connection:	Terminal block
Power connection:	Terminal blocks
Protection factor (CE):	IP20
Protection factor (US):	Dry location only

Dimensions
mm [inch]

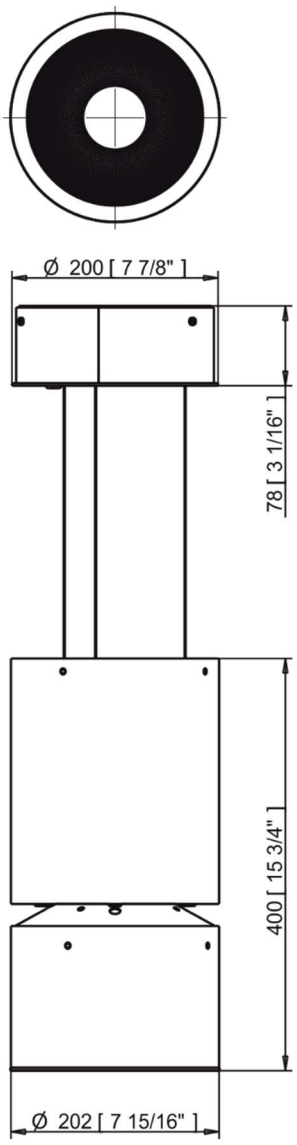
Ambiane XP56 Pendant 20°
Ambiane XP56 Pendant 30°



Ambiane XP56 Pendant 45°



Ambiane XP56 Pendant 60°



Included items
1 x Ambiane XP56 Pendant
1 x Set of cable connectors
1 x User manual

7. Cleaning and maintenance

Disconnect from the mains before starting any maintenance or cleaning work

Keep the fixture clean, especially light source and the ribbed heat sink.
Maintenance and service operations are only to be carried out by a qualified person.
Should you need any spare parts, please use ROBE OEM parts.

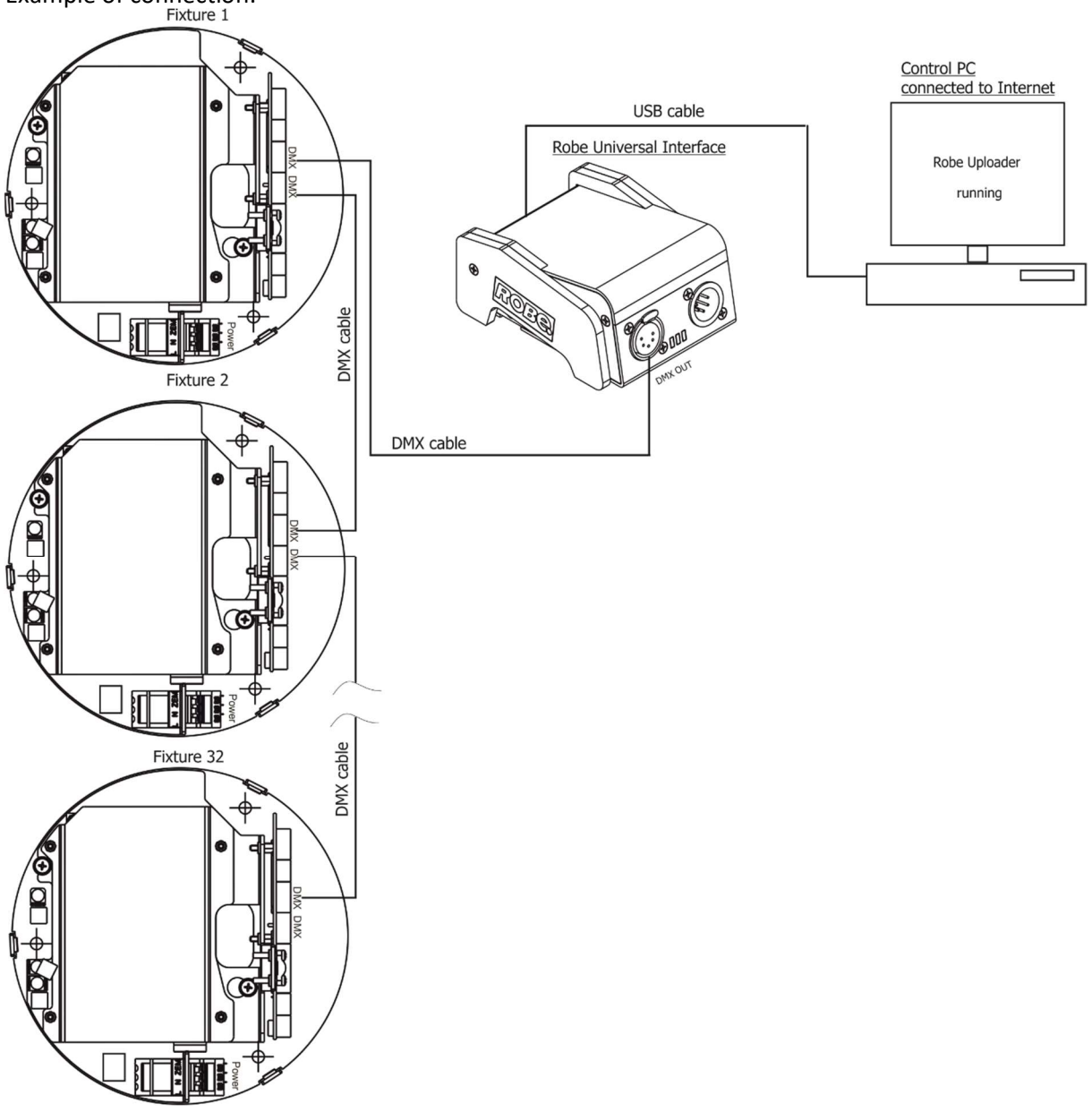
7.1 Software update

The fixture has to be connected to power during software update.

Software update by means of the Robe Uploader

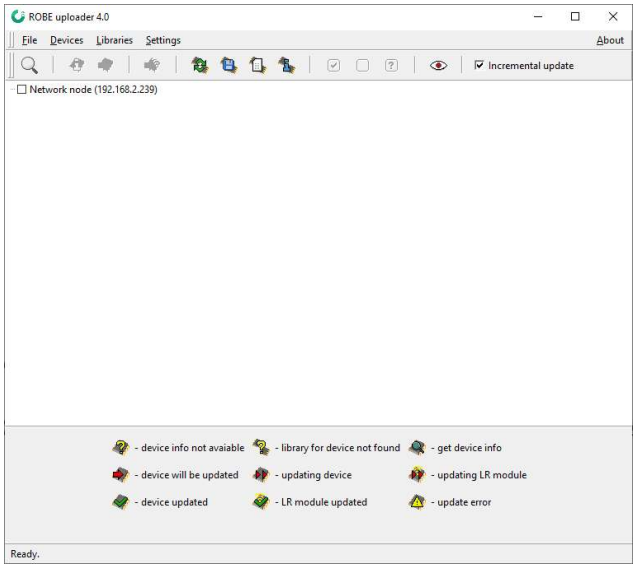
The ROBE Uploader is a software for automatized software update of Robe and Anolis fixtures. It takes advantage of RDM support.

Example of connection:



The fixtures has to be connected in a daisy-chain (max. 32 fixtures) and via the Robe Universal Interface/Robe Universal Interface WTX and a USB cable connected to the control PC with the Robe Uploader running.
The fixtures have to be connected to power. The control PC should be connected to the Internet.

The Robe Uploader software and user manual is available at https://www.robe.cz/robe-uploader/



If you do the software update by means of the Robe Uploader, switching fixtures to the update mode (and from the update mode) is made automatically

Note: The Robe Uploader software cannot be used if fixtures are connected by means of DALI connection.

7.2 Disposing of the product

To preserve the environment please dispose or recycle this product at the end of its life according to the local regulations and codes.

Specifications are subject to change without notice
March 26, 2021

Made in CZECH REPUBLIC by ROBE LIGHTING s.r.o. Palackeho 416/20 CZ 75701 Valasske Mezirici