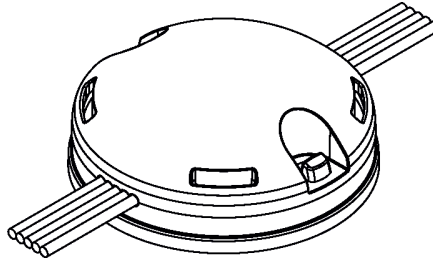


# User instructions

## ArcPix II-US

ArcPix II is a multi-purpose, high-intensity RGBW LED node for generating a wide variety of effects without the limitations associated with a solid fixture unit. The flexibility of ArcPix II allows the user to create patterns and video on almost any surface, either interior or exterior



### 1. Attention

Do not install the module near high inflammable liquids or materials

Do not allow anything to rest on the module

Do not install the module near the naked flames

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

Avoid using the unit in locations subject to possible impacts.

Avoid looking directly into the LED light beam at close range.

Warning: Operation of this equipment in a residential environment could cause radio interference.

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 measure 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 A.

### 2. Mounting

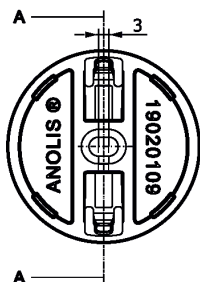
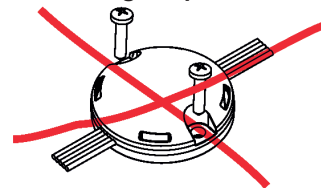
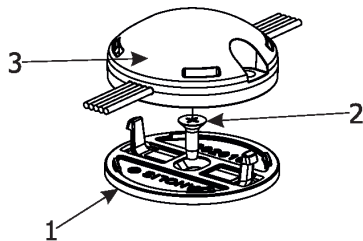
1.Screw the mounting adaptor (1) on the non-flammable flat surface by means of the screw (2).

Tighten the screw with caution. There is a danger of crack of the plastic adaptor.

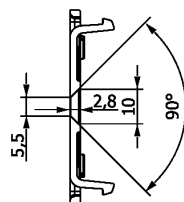
2. Snap the ArcPix II (3) into the mounting adaptor.

#### Important!

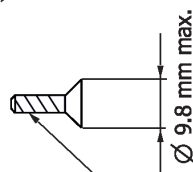
Newer screw the ArcPix II directly on the surface without using the mounting adaptor.



SECTION A-A

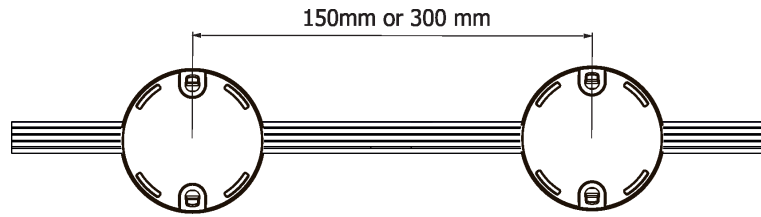


Countersunk-head screw



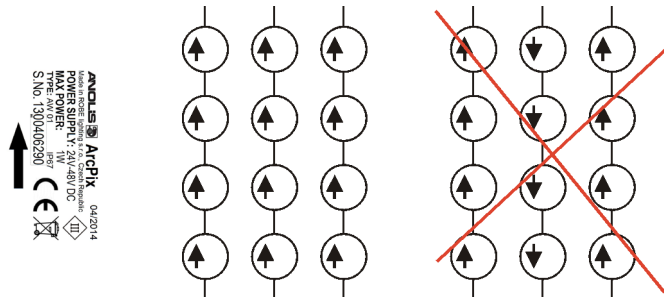
Length, diameter and type of screw depends on conditions of installation. Max. Diameter of screw's head should not be exceeded

The ArcPix II is produced in a standard pitch of 150mm or 300mm, but it can be customized, but the 150mm pitch is the minimal pitch with reference to the service works.



**When you design a line between two adjacent ArcPixes, you should take into account potential replacement of faulty ArcPix II. Needed connection box for ArcPix replacement has dimensions 60mm x 26.2mm x 15.5mm.**

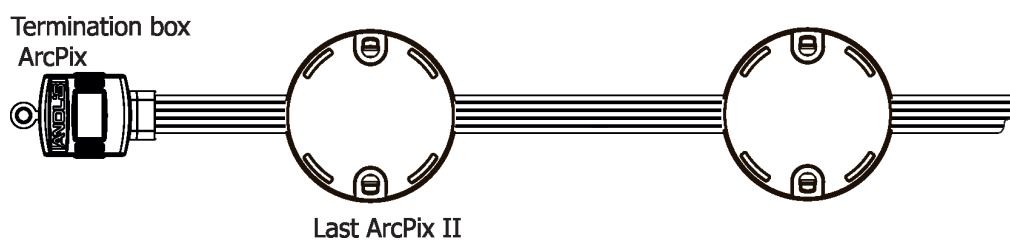
Fasten the ArcPix II modules on the non-flammable flat surface. Every ArcPix II has an identification label with arrow on the bottom side. **When you make your installation, keep the same orientation of the ArcPix II lines** to ensure the same light characteristic of each line.



3. Connect the ArcPix II modules to the power supplies stated in the Technical Specifications. See the power supplies user manuals for detail description.

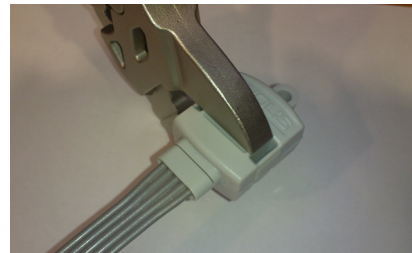
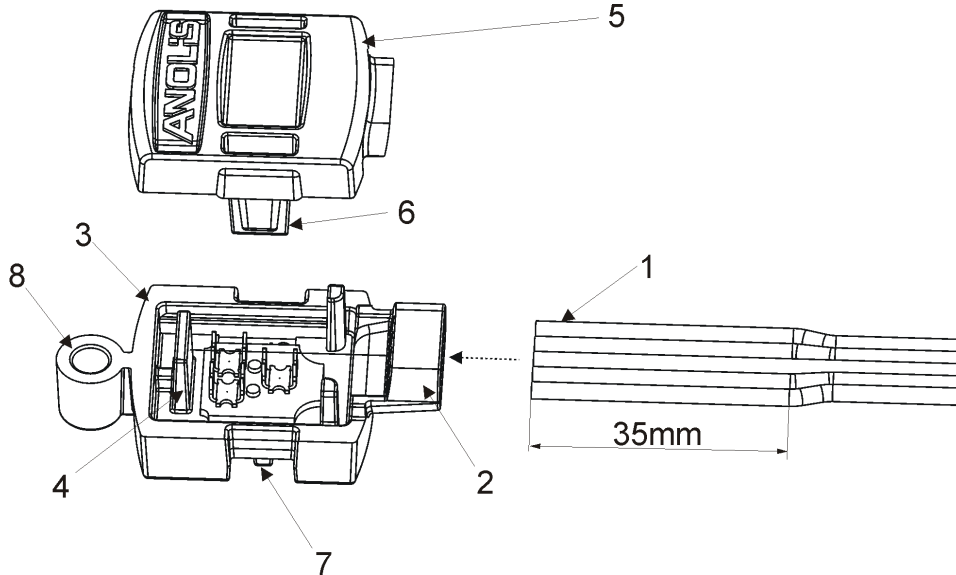
Max. length between the ArcPixel Power-US and the last ArcPix module in a daisy chain of ArcPixes is 100 m.  
Max. number of the ArcPix modules connected to the one output of the ArcPixel Power-US is 100.

The pixels order is set at their production and cannot be changed. The first ArcPix II in a daisy chain of ArcPixes II connected to the output 1 of the driver has DMX address 1 (1-red, 2-green, 3-blue, 4-white). The last ArcPix II in the daisy chain has to be ended by means of the termination box.



To install the termination box

1. Separate cores in length cca 40mm on the end of the 5-wire flat cable (1).
2. Insert the 5-wire flat cable (1) through the bushing (2) into the base of the termination box (3) until it touches the partition (4) in the termination box (3) and align the cores into cutting edges.
3. Put the cover (5) to the base (3) and press both parts (3) and (5) together until both plastic catches (6) snap into slots (7) in the base of the termination box (3). For pressing use suitable pliers with flat jaws.
4. The hole (8) in the housing of the the termination box serves for screwing to the mounting surface.



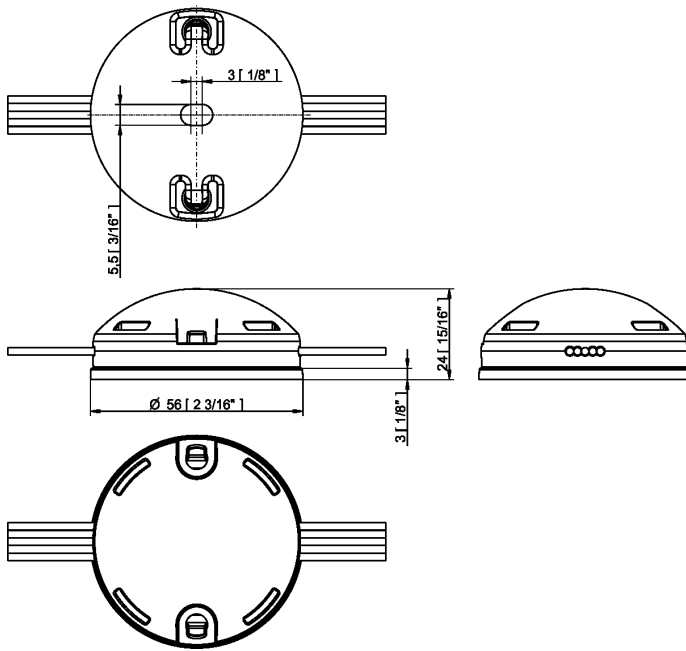
**3. Technical specifications**

LED device:	1 x RGBW multichip LED
Max. current :	17 mA (4 channels together)
Maximum power consumption:	0.8 W/48V
Power supply:	24-50 V DC ;suitable for damp locations 24-30 V DC max. ;suitable for wet locations
Compatible power supplies:	ArcPixel Power-US, ArcPower Unit Pixel Rack Mount US, ArcPower Unit Pixel Wall Mount US, ArcPower Unit Pixel Rack Mount US LV, ArcPower Unit Pixel Wall Mount US LV, DRS
Typical Lumen maintenance:	50000+ hours L50@ 50°C
Cooling system:	convection
Beam angle:	non-optic
Ambient operating temp.range:	-20°C/+50°C (-4°F/+122°F)
Operating temperature:	+50°C at ambient +40°C (+122°F at ambient +104°F)
Control electronics:	Internal chip protection against overheating
Design:	Base: plastic ABS Dome: polycarbonate
Weight:	0.1 kg (0.22lbs)
Mounting:	via via mounting adaptor
Protection factor:	IP 67
IK rating:	IK09
Data cable:	5 wire flat cable

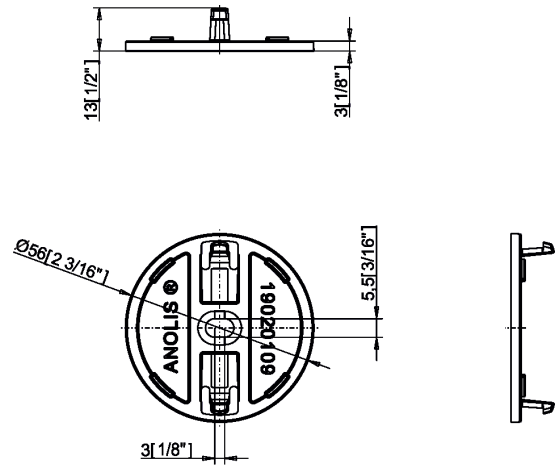
Dimensions

mm [inch]

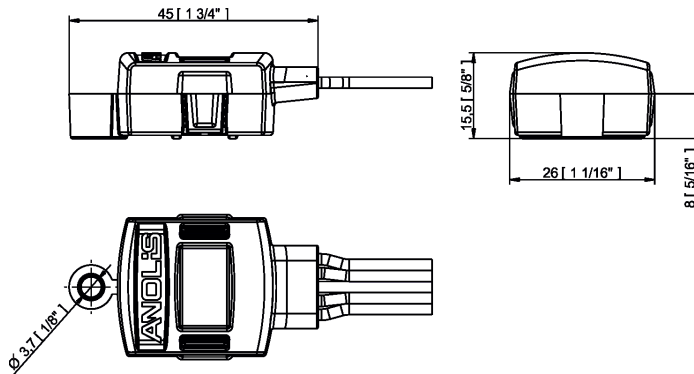
ArcPix II with mounting adaptor



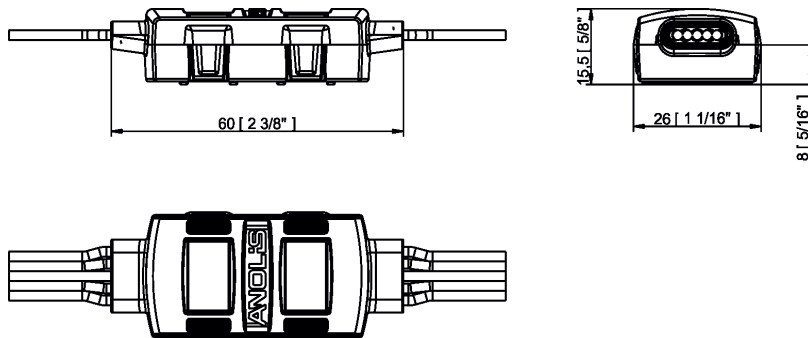
Mounting adaptor



Termination box ArcPix



Connection box ArcPix



**Included items**

ArcPix II

Mounting adaptor (P/N 19020109-01)

User manual

**Optional accessories**

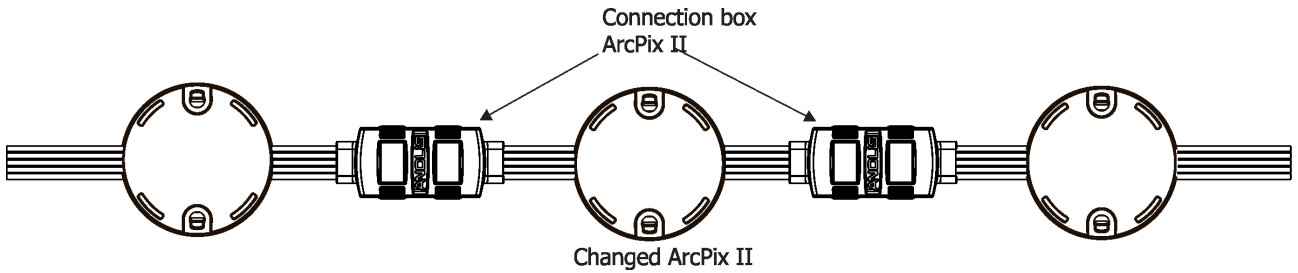
(P/N 10062551) Termination Box ArcPix\*

(P/N 10062550) Connection Box ArcPix (for changing faulty ArcPix II)\*

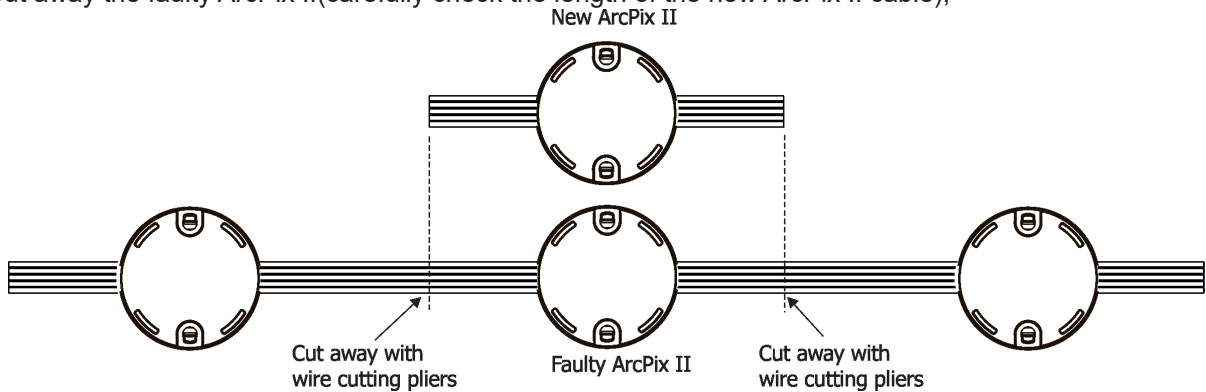
\* quantity depends on size of installation (see the ArcPixel Power -US user manual)

## 5. Replacing the ArcPix

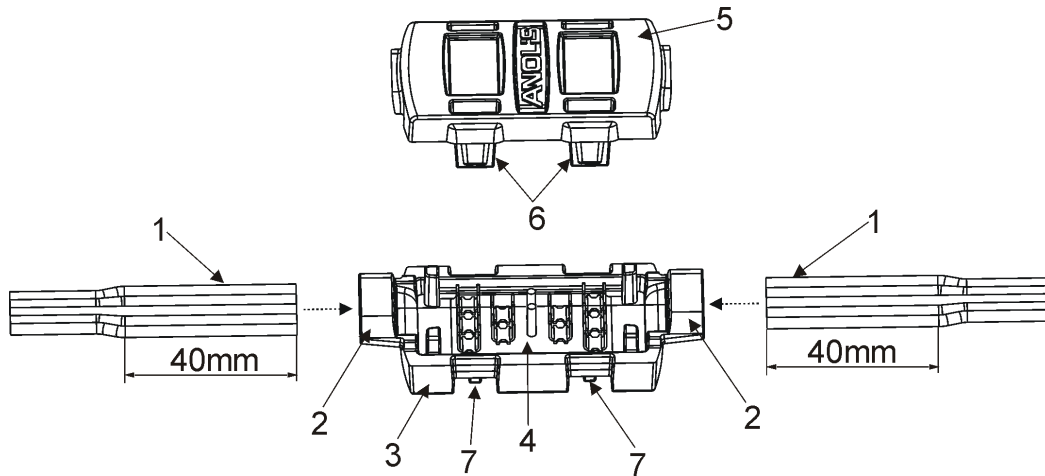
In case that some ArcPix II in a chain of ArcPixes II is faulty, cut it off and use the new ArcPix II and two connection boxes to repair faulty pixel in the ArcPixes II chain.



1. Remove the faulty ArcPix II and both adjacent ArcPixes II from mounting adaptors.
2. Cut away the faulty ArcPix II (carefully check the length of the new ArcPix II cable),



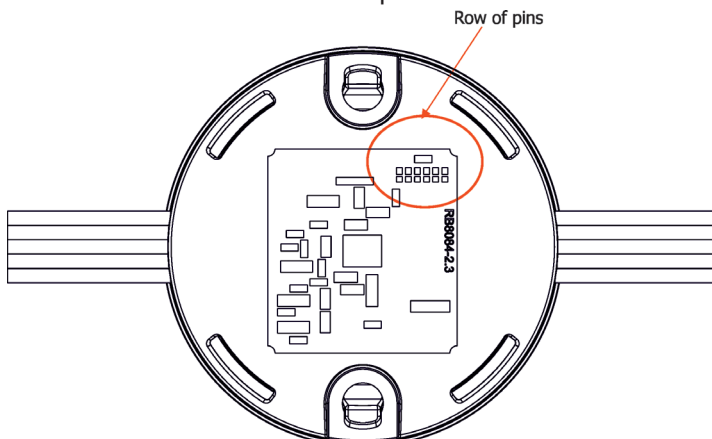
3. Separate cores in length cca 40mm on the end of the 5-wire flat cable (1).



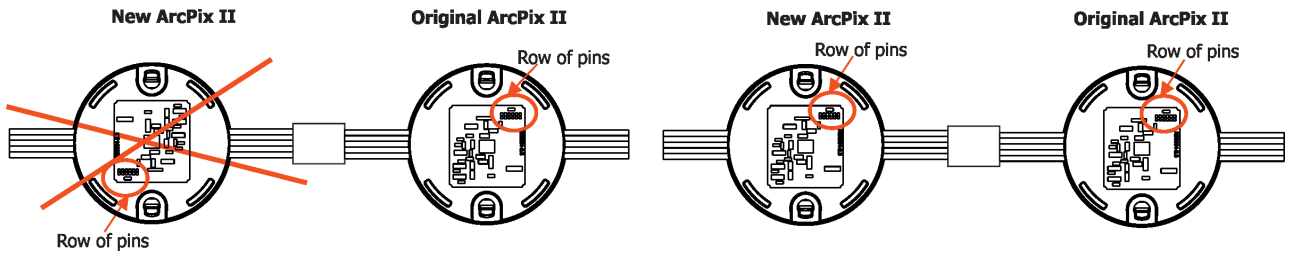
4. Insert the 5-wire flat cable (1) from old and new ArcPix II through the bushing (2) into the base of the connection box (3) until it touches two distance pins (4) in the termination box (3) and align the cores into cutting edges.

### Check the position orientation of the new ArcPix II before connecting it into connection boxes.

Point of orientation is the row of pins on the ArcPix's PCB:



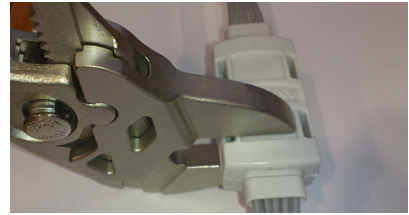
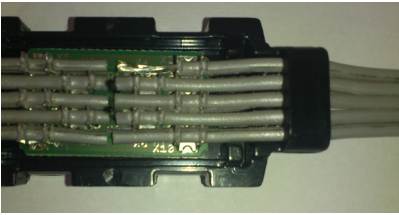
To keep the same light characteristic of the new ArcPix II as the rest of ArcPixes II, the position of the row of pins has to correspond with the pin position on adjacent ArcPix (es) II.



Row of pins has to be on the same side on both fixtures

5. Repeat step 4 for the second end of the ArcPix II cable.

6. Put the cover (5) to the base (3) and press both parts (3) and (5) together until four plastic catches (6) snap into slots (7) in the base of the termination box (3). For pressing use suitable pliers with flat jaws. Press on two pressing points as shown on photos below.



7. Snap ArcPixes II back to the mounting adaptors.

Version 1.0

January 13, 2021

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Specifications are subject to change without notice.

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

