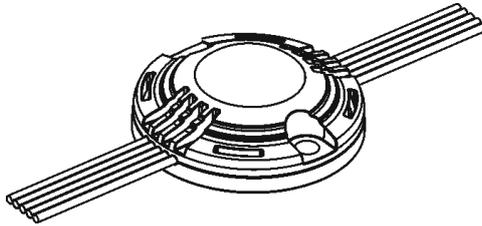


User instructions

ArcPix-US

ArcPix is a multi-purpose, high-intensity RGB LED node for generating a wide variety of effects without the limitations associated with a solid fixture unit. The flexibility of ArcPix 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.

Resistance 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.

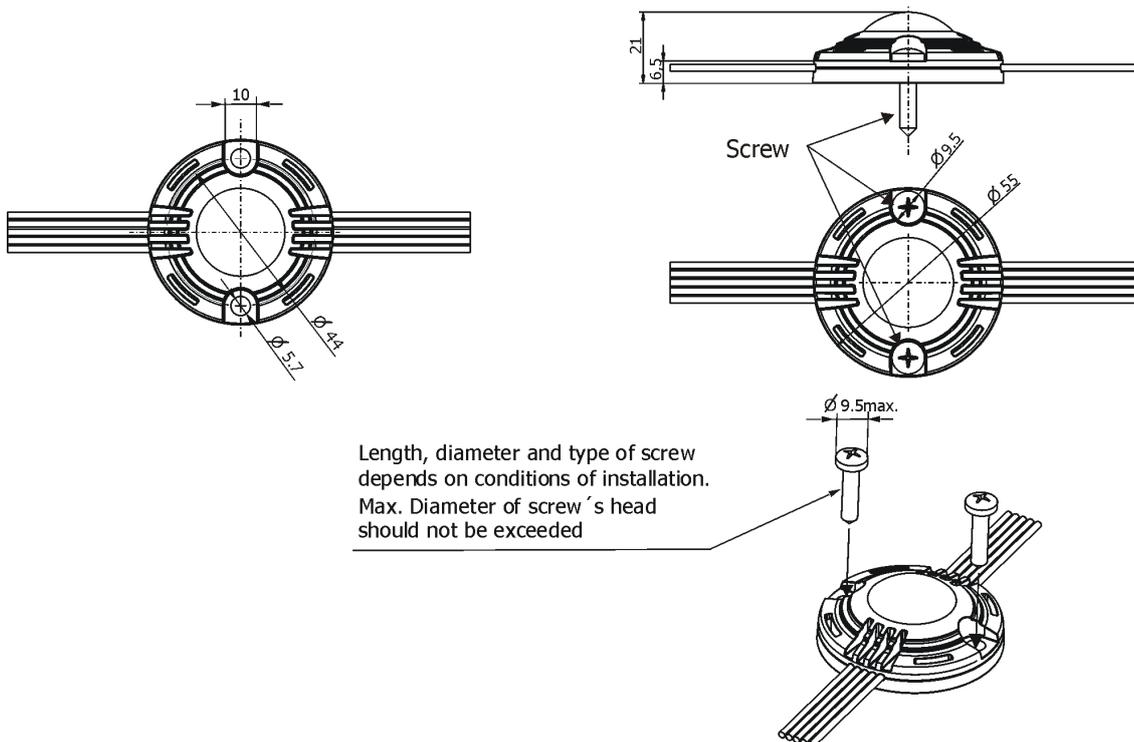
The installation company should measure levels of possible interferences above the tested levels E1, E2, E3 given by this standard (e.g. transmitters in surrounding area) before installing the equipment.

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

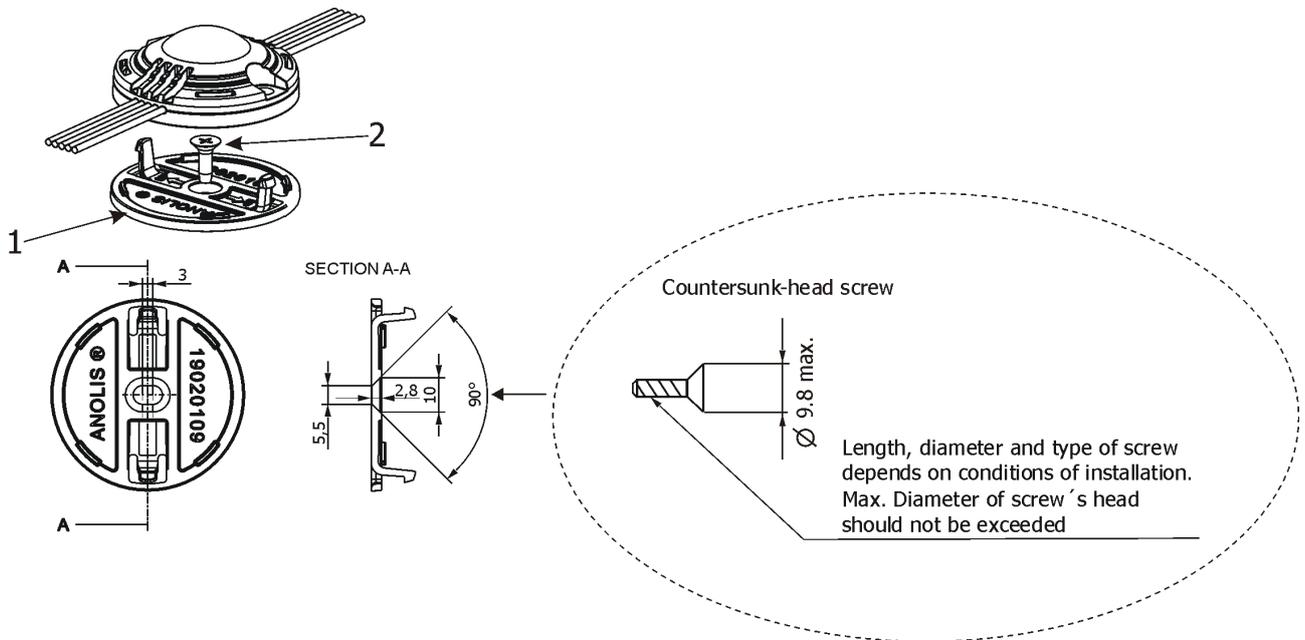
2. Mounting

Two holes of diameter of 5.7mm in the ArcPix base serve for mounting on the non-flammable flat surface.

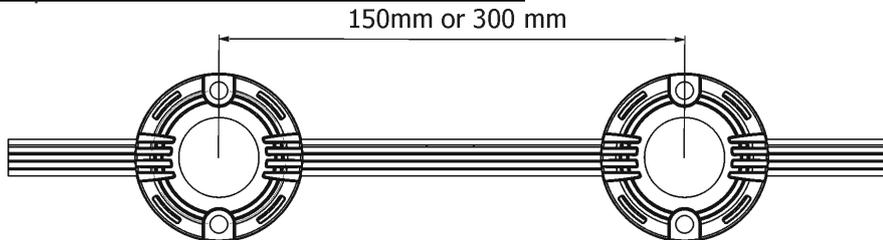
ArcPix with screws



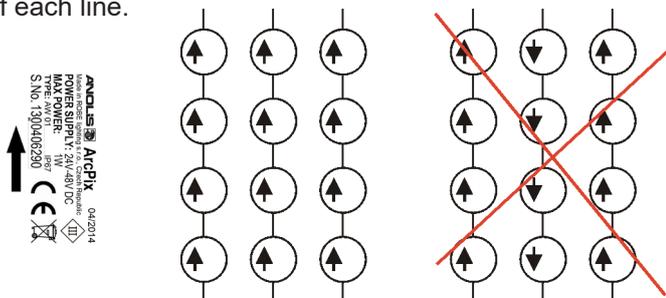
It is also possible to use mounting adapter (1) which is fastened on the surface via a screw (2) and the ArcPix is snapped into the mounting adapter.



The ArcPix 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.



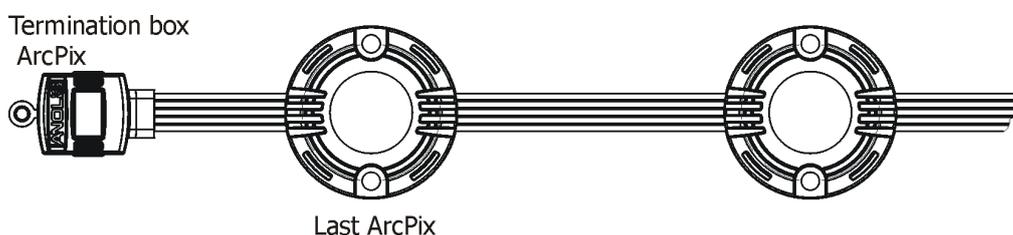
1. Fasten the ArcPix modules on the mounting surface. Every ArcPix has an identification label with arrow on the bottom side. **When you make your installation, keep the same orientation of the ArcPix lines** to ensure the same light characteristic of each line.



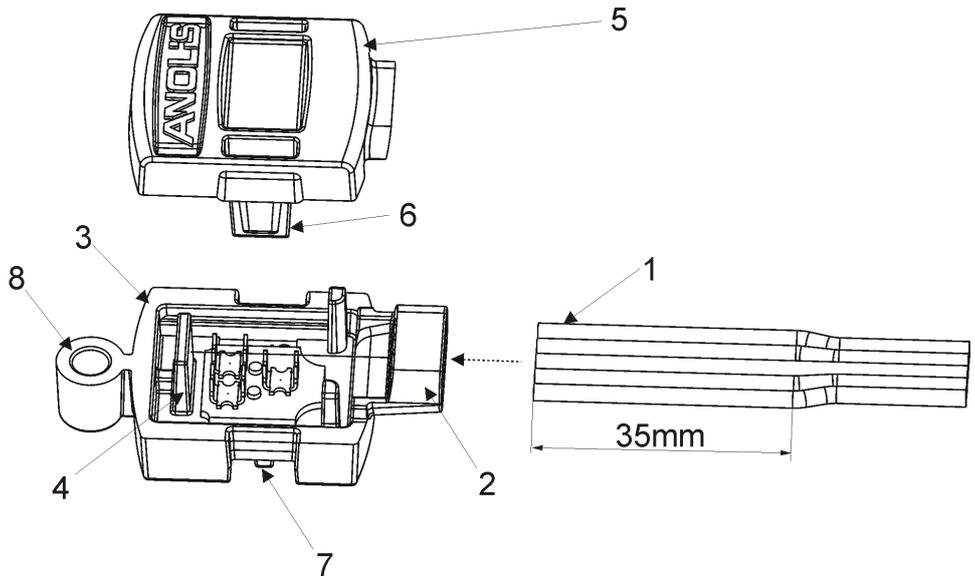
2. Connect the ArcPix modules to the power supply. See the user manuals of the power supplies for detail description.

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 in the daisy chain of ArcPixes connected to the output 1 of the driver has DMX addresses 1-3 (1-red pixel, 2-green pixel, 3-blue pixel). The last ArcPix in the daisy chain has to be ended with 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.

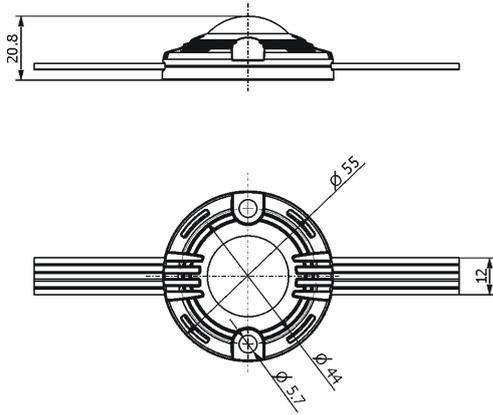


3. Technical specifications

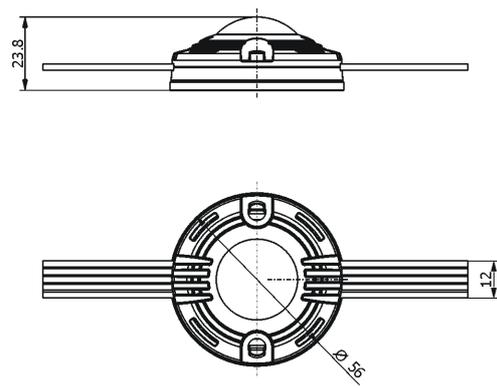
LED device:	1W RGB multi-chip
Max. current :	17 mA (3 channels together)
Maximum power consumption:	0.8 W/48V
Power supply:	24-50 V DC ;suitable for damp locations 24-30 V DC max. ;suitable for wet locations
Compatible power supplies:	ArcPixel Power-US, ArcPower Unit Pixel Rack Mount US, ArcPower Unit 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:	126°x 133°(at half beam)
Ambient operating temp.range:	-20°C/+50°C
Control electronics:	Internal chip protection against overheating
Design:	Base: plastic ABS Dome: frosted polycarbonate
Weight:	0.2 kg
Mounting:	via 2 holes in base
IK rating:	IK09
Data cable:	5 wire flat cable Coast Wire & Plastic tech.

Dimensions (mm):

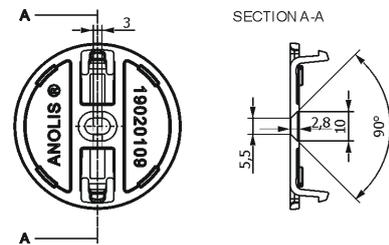
ArcPix



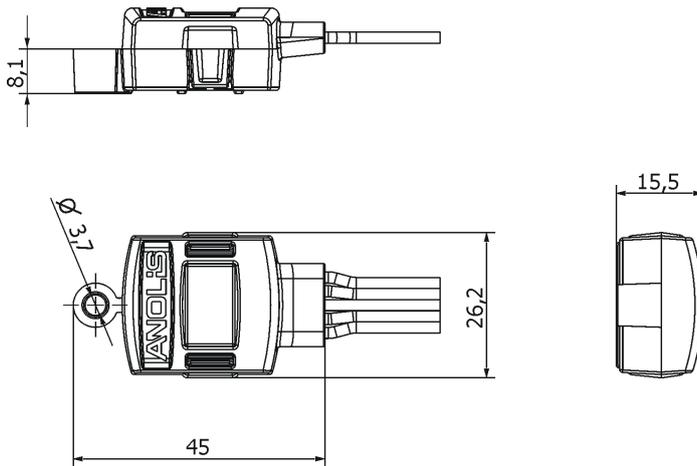
ArcPix with mounting adapter



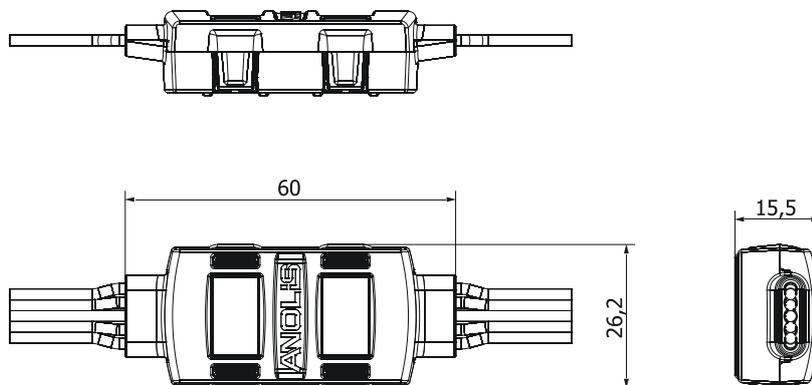
Mounting adapter



Termination box ArcPix



Connection box ArcPix



Accessories

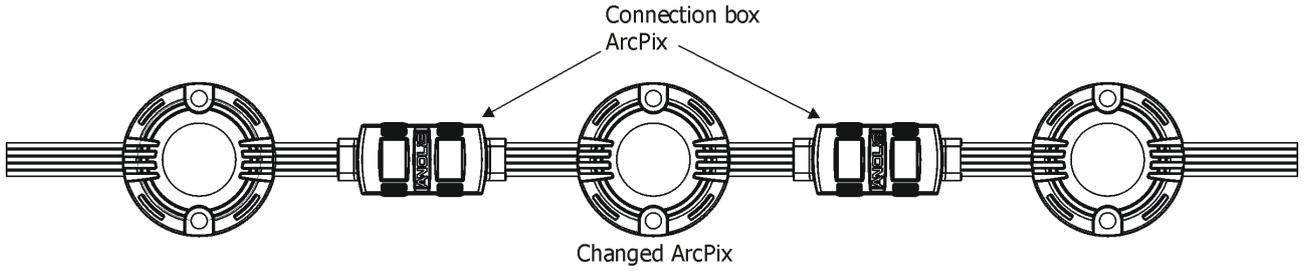
(P/N 10062551) Termination Box ArcPix*

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

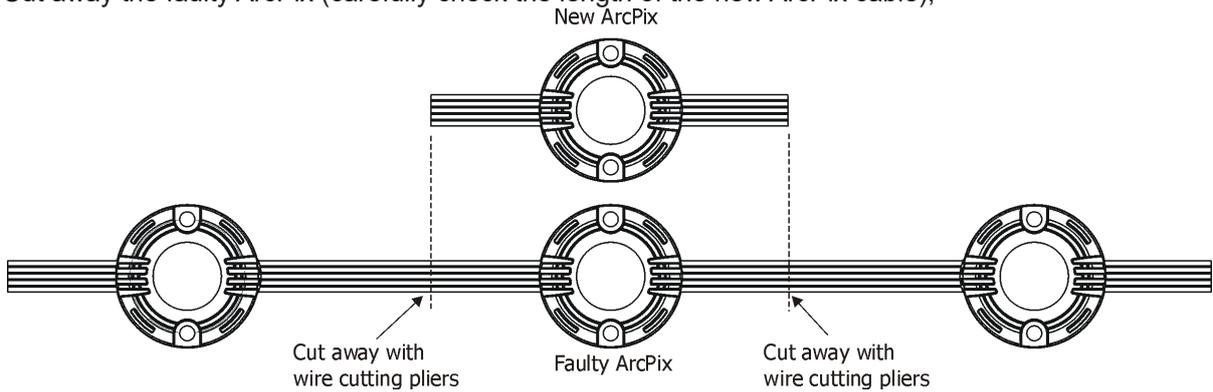
* quantity depends on size of installation (see the ArcPixel Power-US user manual)

5. Replacing the ArcPix

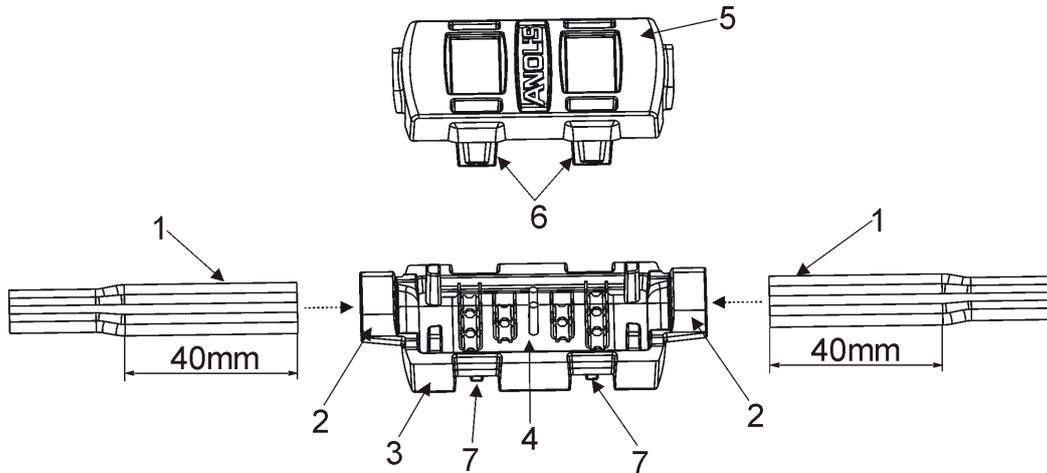
In case that some ArcPix in a chain of ArcPixes is faulty, cut it off and use the new ArcPix and two connection boxes to repair faulty pixel in the ArcPix chain.



1. Unscrew the faulty ArcPix and both adjacent ArcPixes.
2. Cut away the faulty ArcPix (carefully check the length of the new ArcPix cable),



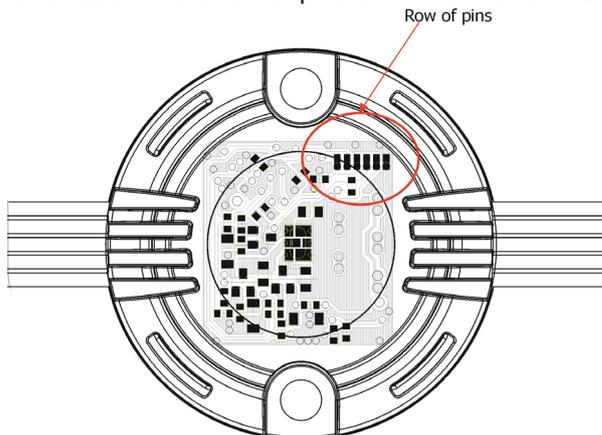
3. Separate cores in length cca 40mm on the end of the 5-wire flat cable (1).



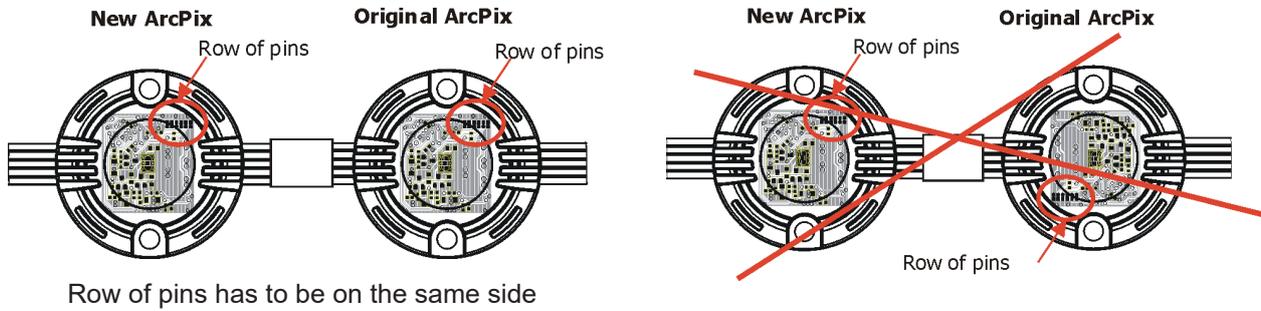
4. Insert the 5-wire flat cable (1) from old and new ArcPix through the bushing (2) into the base of the connection box (3) until it touches two distance pins (4) in the termination box (3) and align the cores into cutting edges.

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

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

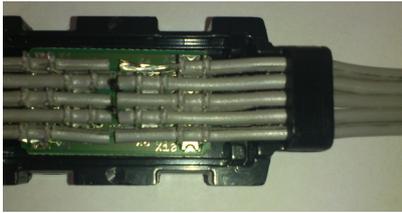


To keep the same light characteristic of the new ArcPix as the rest of ArcPixes, the position of the row of pins has to correspond with the pin position on adjacent ArcPix (es).



5. Repeat step 4 for the second end of the ArcPix 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. Screw ArcPixes back to the surface.

