MICARO-H-1

Installation and operating instructions

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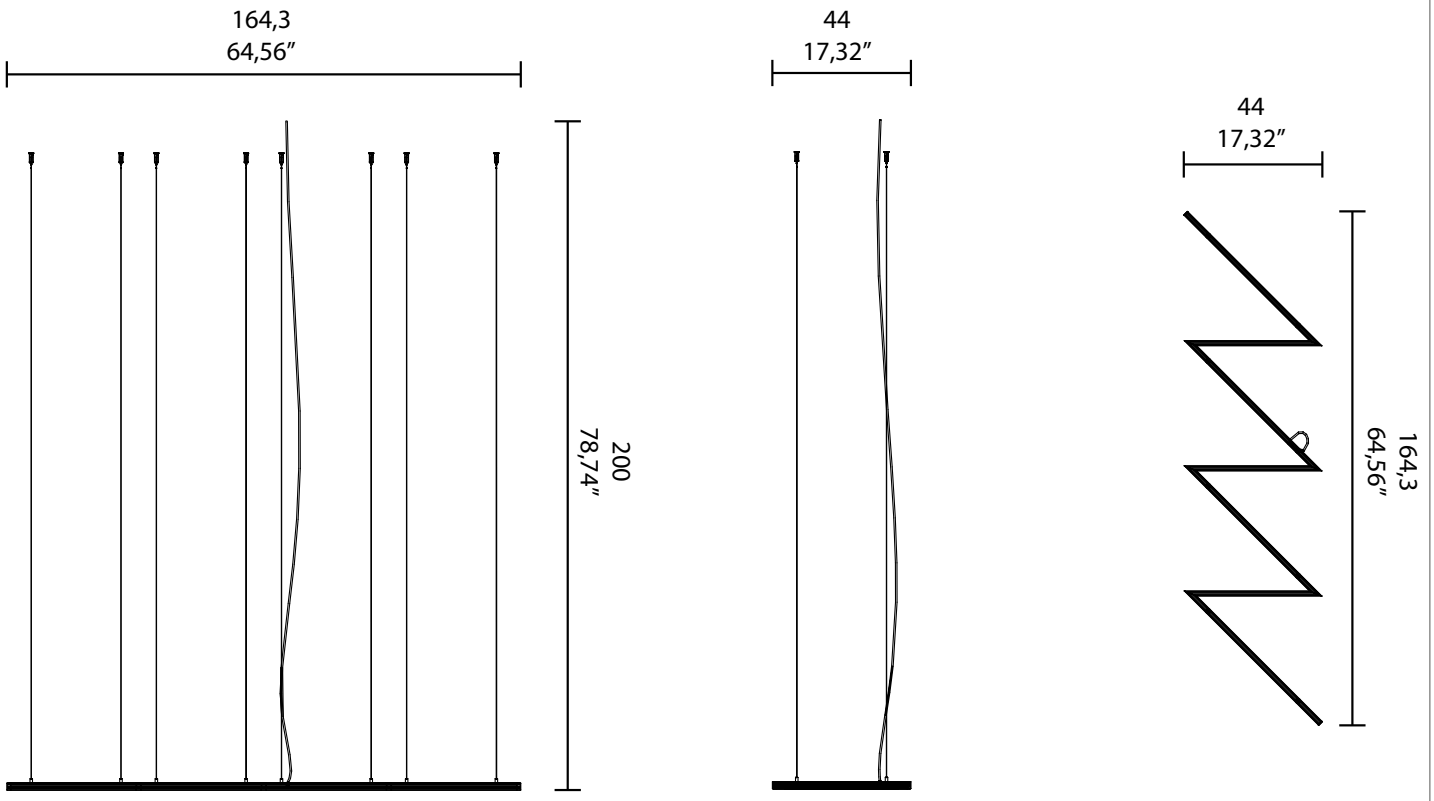
Ready-made fixture

Suspended mounting

CE • LVD • EMC • RoHS

24V DC

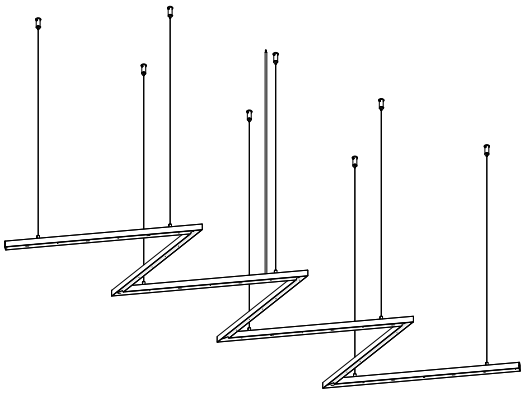
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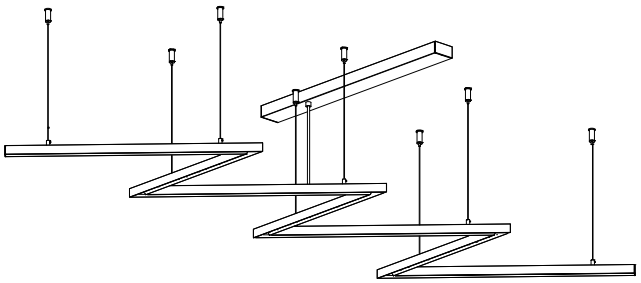
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MICARO-H-1

is a ready-made lighting fixture intended for suspended mounting.
The fixture is powered by 24 V DC voltage from an appropriately selected power supply unit.
The manual describes mechanical installation, suspension adjustment and low-voltage connection.



Example configuration without BOX-M600



Example configuration with BOX-M600

SET INCLUDES:

- MICARO-H-1 fixture (ready-made)
- Suspension elements / mounting accessories (according to configuration)
- Manual

SET DOES NOT INCLUDE

- Screws and wall plugs matched to the substrate (not always included)
- Control elements (if present in the fixture version)
- 24 V DC power supply unit and BOX-M600, if these elements are not part of the selected configuration.

REQUIRED TOOLS

- drill
- spirit level,
- screwdriver

SAFETY

- Disconnect power supply before installation, cleaning and servicing.
- Installation and connection should be performed by qualified personnel.
- Do not modify the fixture. Use only compatible elements.
- Do not use the product if it is damaged.

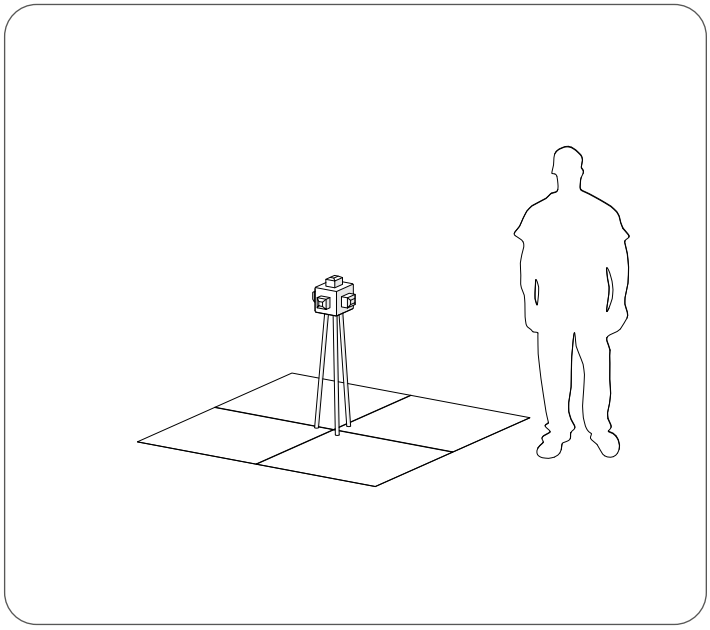
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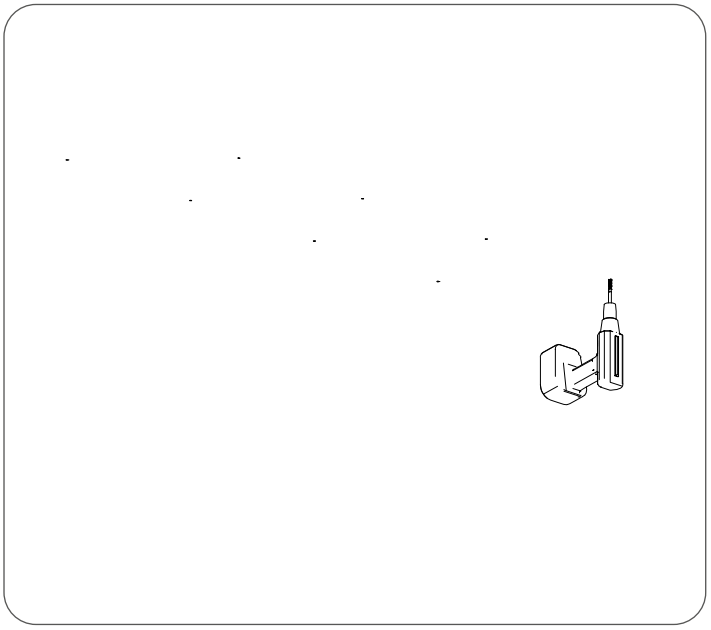
Preparation of mounting points

- Determining mounting points on the ceiling and preparing mounting holes.

Step 1 - Mark and drill holes

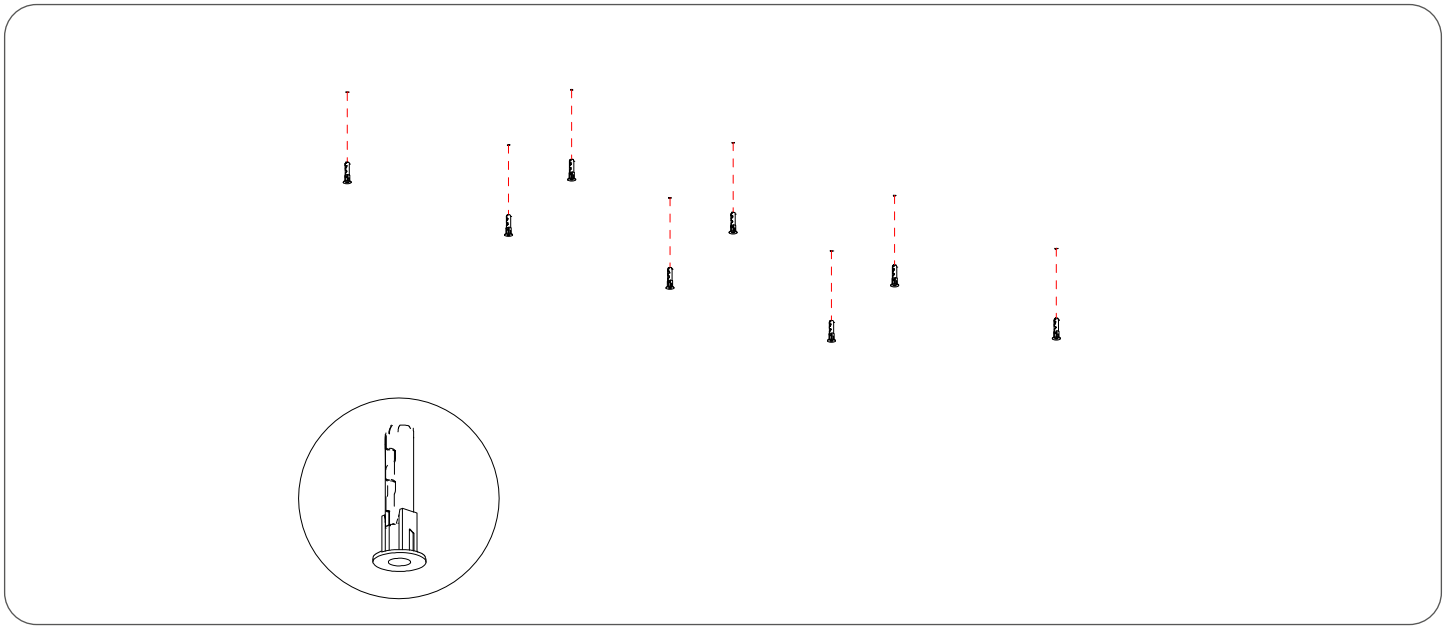
- Determine the position of the fixture and transfer the mounting points onto the ceiling according to the layout shown in the drawing.
- Take into account the location of the 24V DC power cable outlet.
- Check the load-bearing capacity of the ceiling and ensure there are no hidden utilities in the drilling locations.





Step 2 - Insert fixing elements

- Select wall plugs and screws appropriate for the type of substrate: concrete, brick, plasterboard or wood.
- Insert wall plugs perpendicular to the ceiling surface.
- Check the stability of each point before installing suspension elements.



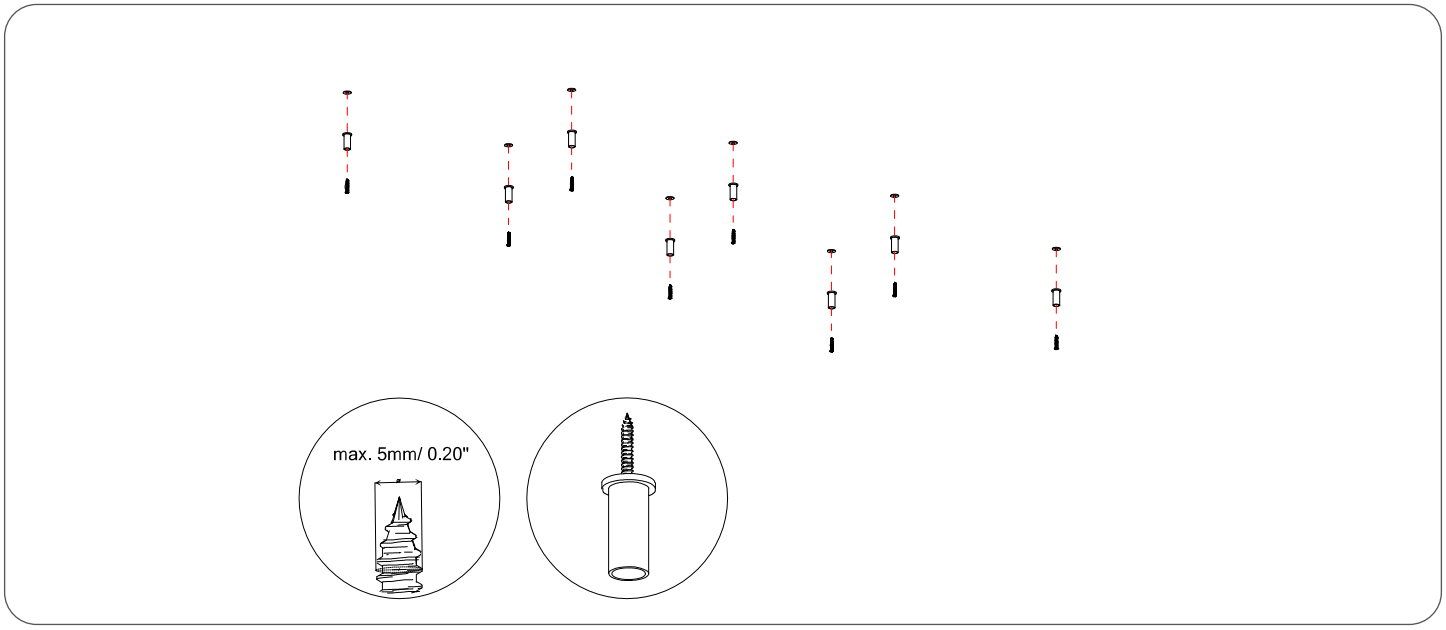
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Installation of ceiling elements

- Installation of suspension elements to the ceiling and preparation of steel cables.

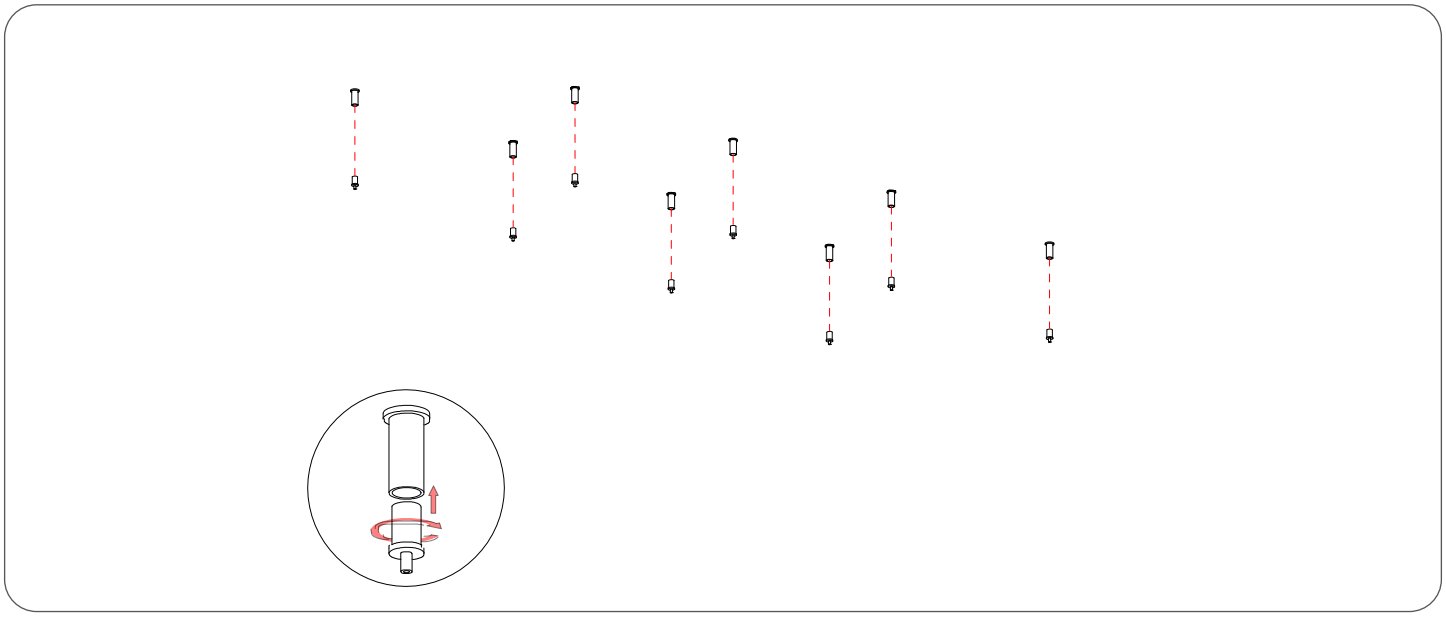
Step 1 - Install suspension bodies

- Screw the suspension elements into the prepared mounting points.
- Do not exceed the maximum diameter of the fixing element indicated in the drawing.
- Ensure that the suspension bodies are seated straight and stably.



Step 2 - Install adjustment mechanisms

- Screw the lower parts of the adjustment mechanisms into the installed ceiling bodies.
- Tighten the elements manually, then check their axial alignment.
- Do not leave loose connections - each mechanism must be firmly seated.



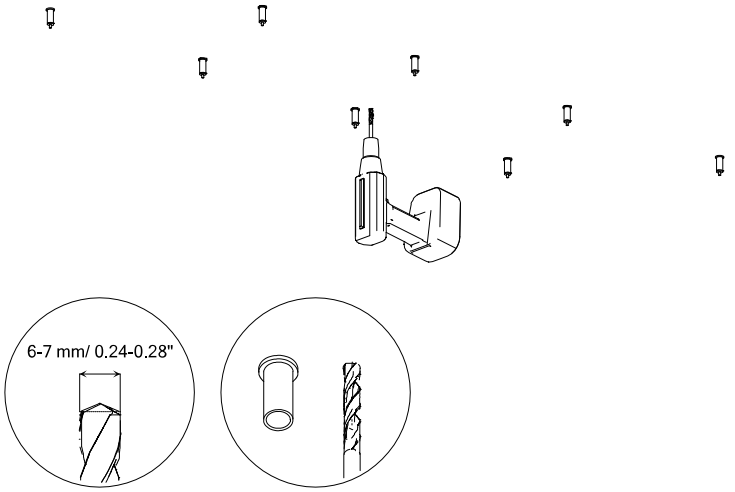
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Preparation of cable and fixture

- Preparation of power supply cable mountings and fixture elements for suspension.

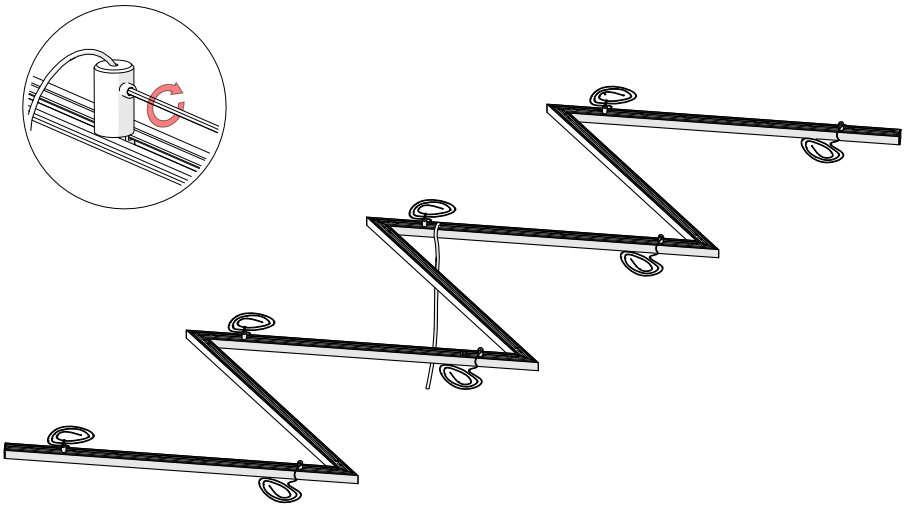
Step 1 - Prepare cable routing points

- Determine mounting points for cable guide elements according to the path shown in the drawing.
- Drill holes within the diameter range specified in the drawing and insert appropriate mountings.
- Arrange mountings so that the cable is routed without sharp bends.



Step 2 - Secure cables in hangers

- Lay out the fixture on a clean, soft and stable surface.
- Insert 2 m long steel cables into the hangers attached to the fixture.
- Set the cables in the correct position and tighten the set screw of each hanger.
- Check if the cables do not slip under light load.



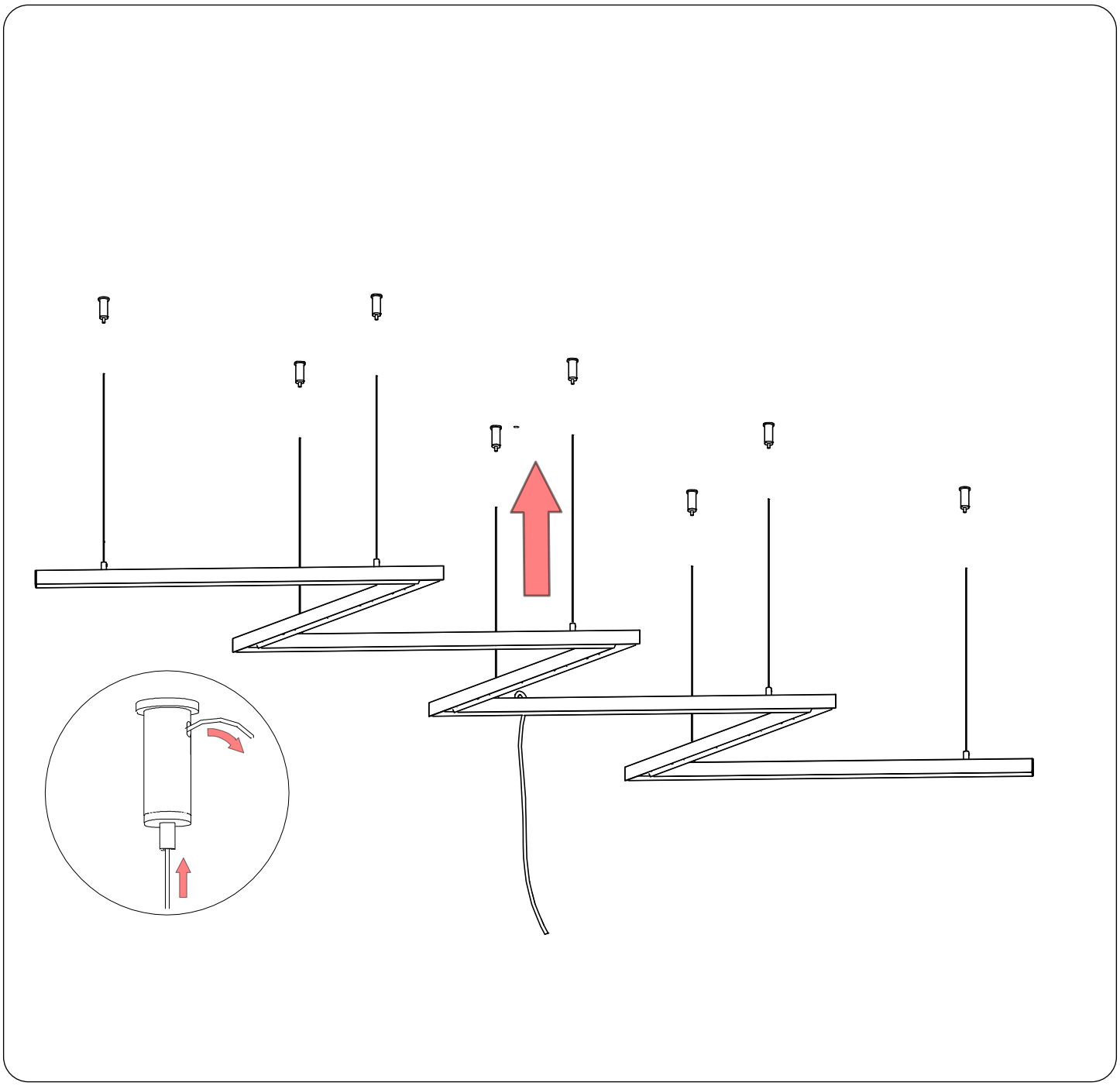
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Suspension of the fixture

- Attaching the fixture rings to the prepared steel cables.

Step 1 - Lift fixture and insert cables

- Protect the fixture against falling. Due to its length, lift it evenly, preferably with the help of at least two people.
- Insert the free ends of the steel cables into the corresponding ceiling mechanisms.
- Lift the fixture gradually, shortening the cables one by one and keeping the structure as level as possible.
- Check if each mechanism has locked the cable and taken the load.



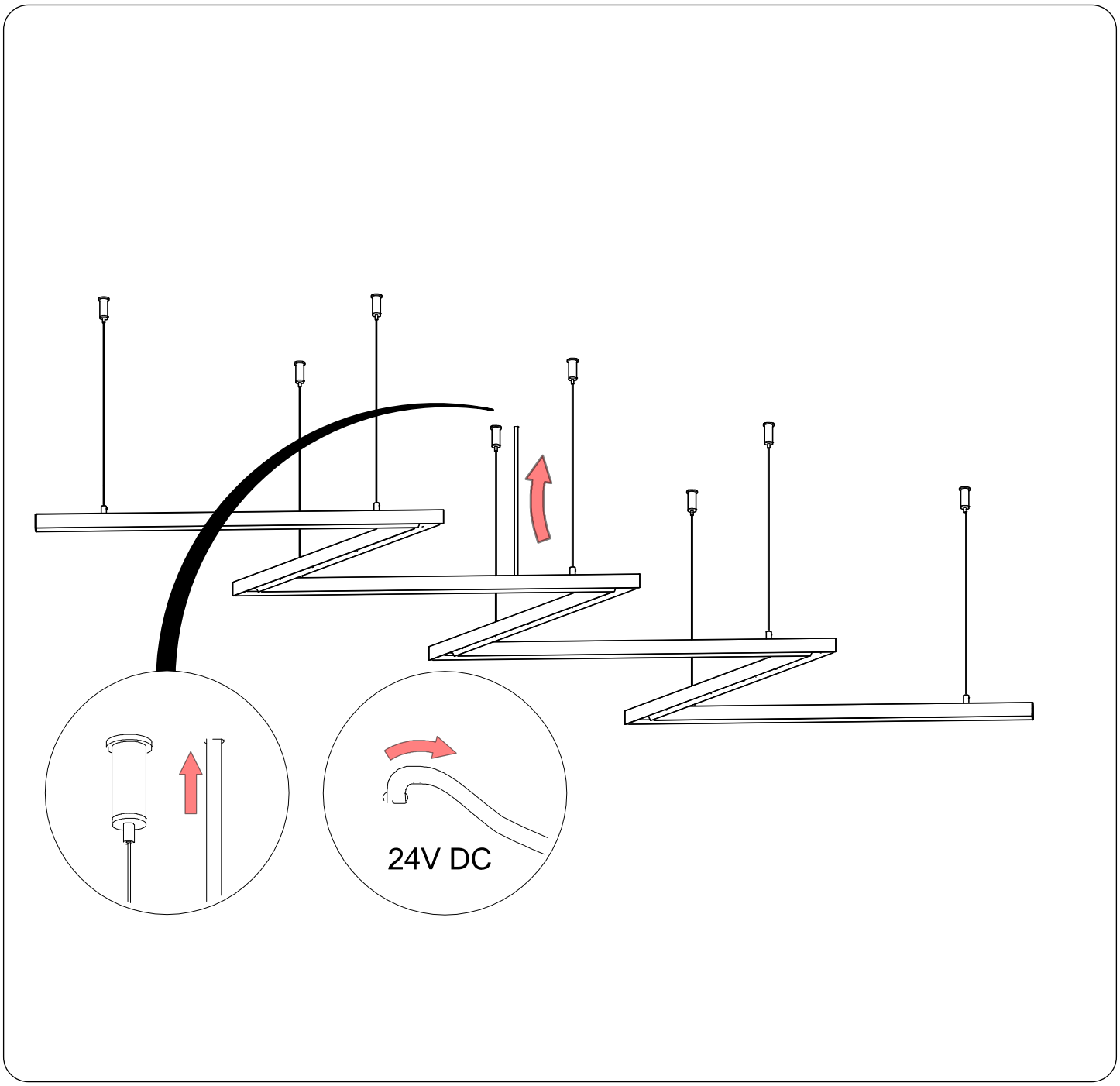
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Height adjustment and cable routing

- Setting the target geometry of the fixture and preparing the 24V DC cable for connection.

Step 1 - Set fixture height and route cable

- Adjust the length of the cables sequentially until both rings reach their target position.
- Check the level and relative position of the rings.
- Route the 24V DC cable without twists, sharp bends or tension.



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Electrical connection

- The luminaire operates on 24V DC supplied by an external (remote) driver.
- Mains voltage 120V / 277V AC, 50/60Hz must be connected to the remote driver only.
- Only the 24V DC output from the remote driver is connected to the luminaire.

RECOMMENDATIONS

- Ensure the mains supply is connected to the remote driver.
- Connect only the 24V DC output to the luminaire.
- Switch off the power supply before installation or maintenance.
- Ensure all connections are secure and cables are not under tension.

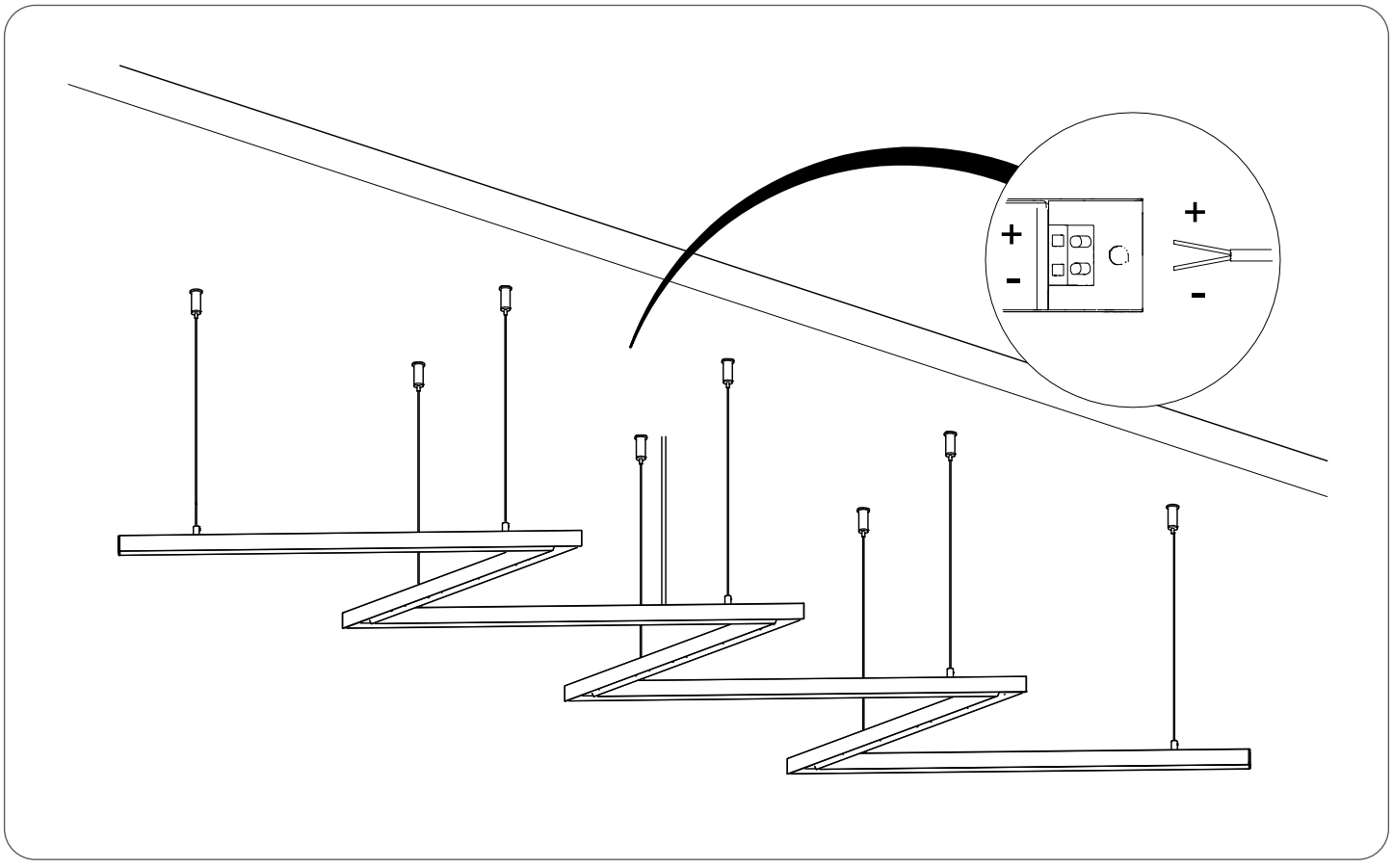
WIRING DIAGRAM

- The luminaire is supplied with a factory-prepared cable terminated with a 2-pin terminal block.
- 24V (+) – Positive (DC+)
- 0V (-) – Negative (Blue wire)
- Connect the 24V DC output from the remote driver to the corresponding terminals of the 2-pin connector.

  * Observe correct polarity. Incorrect connection may damage the luminaire.

Step 1 – Connect the Wires to the Terminal Block

- Connect the 24V DC output from the remote driver to the supplied 2-pin terminal block.
- Match the polarity correctly: 24V (+) to positive(brown or red), 0V (-) (blue or black wire) to negative.
- Ensure all connections are secure and no conductors are exposed.
- Make sure the cable is not under tension after connection.
- Remove any excess cable slack to prevent strain on the terminals.



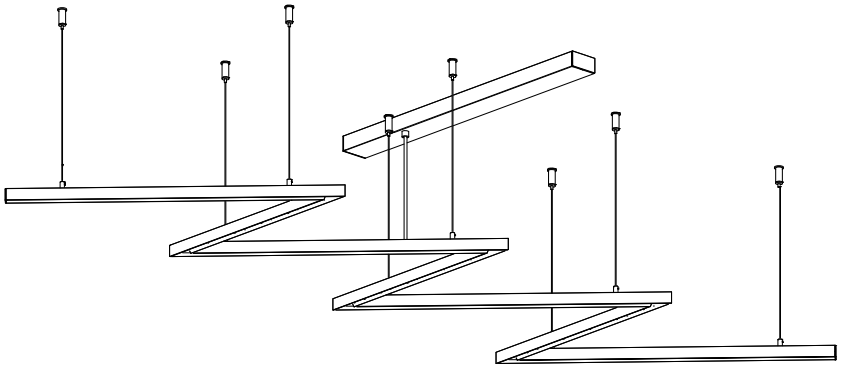
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Optional installation of BOX-M600 power supply housing

- Installation of the BOX-M600 housing should be performed when it is not possible to hide the power supply in the mounting space or ceiling recess.

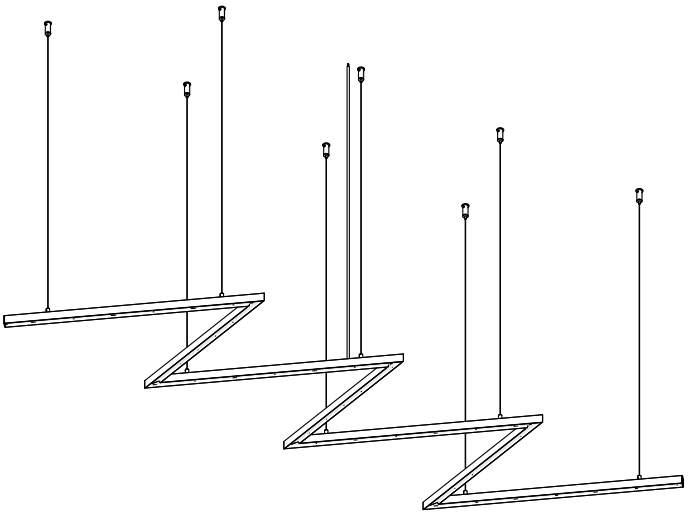
Step 1 - Mount optional BOX-M600 power supply housing

- If it is not possible to conceal the power supply in the mounting space, install the BOX-M600 housing on the ceiling surface,
- route cables into it, place the power supply and make connections according to the wiring diagram, then close the housing.



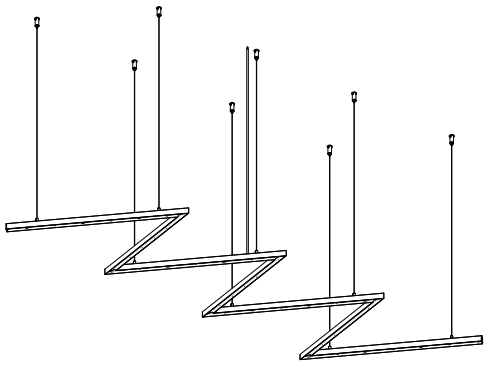
Step 2 - Final inspection and startup

- Check locks on all cables, stability of mounting points and level of the fixture.
- Ensure the power supply cable is not strained or twisted.
- Turn on 24V DC power supply and perform a operational test of the fixture.
- In case of abnormalities, immediately disconnect power supply and check connections.



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Maintenance, disposal, USA compliance



CLEANING:

- Clean with a dry or slightly damp cloth.
- Do not use abrasive cleaners or aggressive chemicals.

DISPOSAL

- Do not dispose of with household waste.
- Dispose of the luminaire at an authorized electrical and electronic equipment recycling facility in accordance with local regulations.

COMPLIANCE

- This product complies with applicable EU directives and relevant standards (including PN-EN 60598-1).
- For the USA market, the product must be installed in accordance with the National Electrical Code (NEC) and local regulations.

*** LUMINAIRE DISASSEMBLY**

Disassembly must be performed in reverse order of installation.
All operations must be carried out with the power supply switched off.

WARNING!

BEFORE STARTING DISASSEMBLY, DISCONNECT THE MAINS POWER SUPPLY (120V / 277V AC) TO THE REMOTE DRIVER.
ENSURE THE LUMINAIRE IS PROPERLY SUPPORTED DURING REMOVAL TO PREVENT IT FROM FALLING.

- Switch off the power and verify that no voltage is present in the circuit.
- Disconnect the 24V DC supply from the 2-pin terminal block.
- Support the luminaire and release it from the suspension system.
- Loosen the adjustment mechanism and remove the suspension cables, if applicable.
- Remove the ceiling mounting hardware (screws, anchors), if required.

After completing disassembly, secure the installation wiring in accordance with applicable regulations.

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