

# CASSETTE AWNING OLIVIA

## 1. INTRODUCTION

The awning Olivia is characterized by the fact that brackets, roller tube and the folding arms are attached to the supporting pole. The standard type (2 arms) of this range allows a projection of 4,0 meters and a width of 6 meters. It is possible to achieve the width of 7 meters with 3 arms.



The awning has been designed as a sun protection and for that reason it may not be used as an all-weather protection. In case of heavy rain or wind the awning has to be closed immediately. Therefore, we recommend to use the sun protection in combination with a wind/sun – automatic - control.

With this manual, we confine ourselves to the instructions regarding the perfect installation of our sun protection. The contractor assumes full responsibility for the installation of the complete sun protection and all possible components added by this very contractor. Contractor is also held accountable for the correct CE-labelling of the sun protection installed under his responsibility. This manual is meant to be used by professionals only.

## 2. GENERAL WARNINGS

For a safe fitting, use and maintenance of this sun protection a number of precautions have to be taken. For the safety of everyone concerned, please do take notice of the following general warnings!

This manual is meant to be used by professionals only! It is not to be used by DIY enthusiasts or apprentice fitters.

Before you start, please do read these instructions thoroughly.

Be very careful and make sure of a solid footing while operating.

Provide sufficient light in the fitting area. Dispose of obstacles and dirt. Make sure that, except for the fitters, no other people are in the fitting area. Unauthorized people might be in the way or at risk for themselves.

During operating the system, you must be able to overlook the complete area and the whole of the sun protection. There are a number of places where people might get injured. Especially watch the following parts where people might risk to get jammed: the folding arms, the extension profile and the casing.

Folding arms are always under an immense tension, caused by their built-in springs. Always proceed with due caution, especially when working with coupled awnings with continuous fabric.

The fitter has to make all electrical connections in accordance with the local norms and regulations.

### Guarantee and conditions:

- The manufacturer has endeavored to design and assemble this sun protection in accordance with the ruling and valid CE-norms. Nevertheless, feel free at any time to countercheck these interpretations with your local national institute of normation.
- From this manual no rights can be derived. Technical alterations are possible without prior notification.
- When dealing with larger projects, we do advise you to implement a full installation of 1 sun protection before starting with the installation of the rest of the sun protections. This way, an oversight or a small mistake can be detected in its earliest
- and least expensive stadium.



- For our general conditions of sale: see pricelist.

### 3. LIST OF ACCESSORIES

- Ladder
- Cutter
- Roller meter
- Electric drill
- Cross-head and flat-head screwdrivers
- Set of open-ended or ring spanners
- Ruler and pencil
- Set of masonry drills
- Level
- Voltmeter or testing lamp 220 V
- Cord
- Allen keys (+ Allen key 7)

### 4. ASSEMBLY INSTRUCTIONS

#### 4.1. OPENING OF THE PACKAGING

First check the packaging for any external damage.

Open the cardboard packaging. Be careful when using a knife to cut the straps. If the cardboard is slit open carelessly, the paintwork can quite easily get scratched. You might even cut through the fabric. It is advisable to remove only the plastic wrapping at the ends,

#### 4.2. CONTROL OF THE CONTENTS

The awning OLIVIA is delivered ready for assembly, supplied without all necessary fasteners. Check the contents of the packaging and verify the length of the awning.

#### 4.3. POSITION OF THE FITTINGS

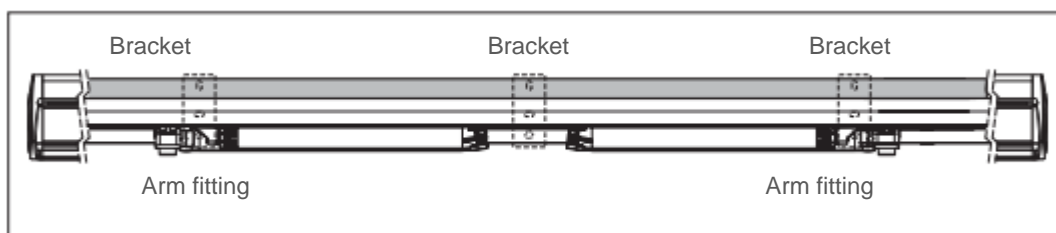


Fig. 1

Take the brackets out of the packaging and divide them up proportionally along the length of the awning (Figure 1). (For awnings with back plate, read also point 4).

Make sure that the brackets are always as close as possible to the arm fittings.

The position of the arm bracket is marked on the back of the cartridge with a green mark.

If there are more brackets than arm fittings, the surplus brackets must be fitted at the centre. As a temporary measure, slide the brackets onto the assembly pole of the awning, so that you can easily measure the distance to the exterior.

Then, mark the location of the brackets on the wall, taking into account the following:

- The awning must be positioned in such a way as to leave the same distance between the left-hand and right-hand edge of the awning and the frame of the window.
- The brackets must be placed horizontally at right angles to the base. If necessary, use cord and level.
- In order to allow for sufficient through height ( $c = \text{min.} 2200 \text{ mm}$ ) underneath the extension pole, it is essential to fit the awning sufficiently high up the wall.

The minimal angle on the fabric is approximately 10 degrees (Figure 3), while the maximum angle is 45 degrees. A sloping clearance of 400 cm (A) corresponds to a minimal gradient of 69 cm and maximum 283 cm, irrespective of the height of the extension pole. An indication of other measurements and other settings can be found in the schedule of the minimal angles. Now, drill the holes in the wall for the attachment materials.

If the walls are made of cellular concrete or hollow brick, the correct type of fastening equipment must be used, e.g. coach bolts, chemical anchors etc., to define by the installer on site. Isotra does not assume any responsibility whatsoever for fastening materials coming loose from the mounting surface.

### Warning!

- When attaching brackets, do not use screws with large heads or thick washers. Protruding heads may damage the fabric when it is rolled up and down.
- It is advisable to order extra assembly brackets if the walls are suspect and/or to brace the walls.

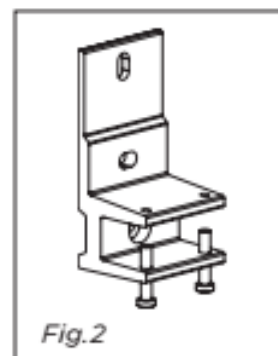


Fig. 2

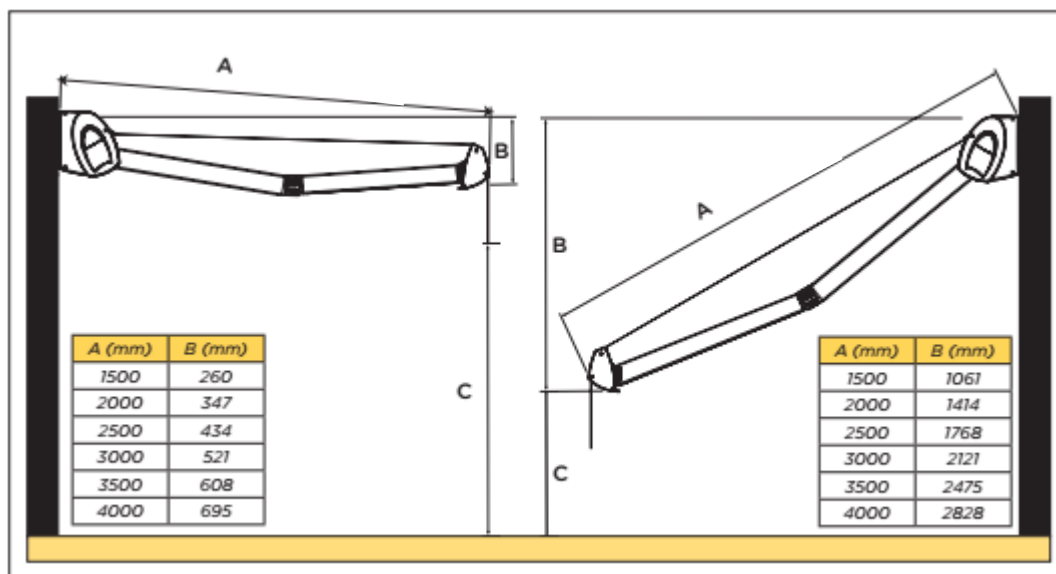


Fig. 3

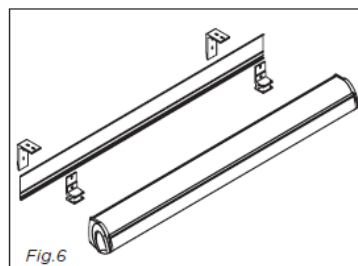
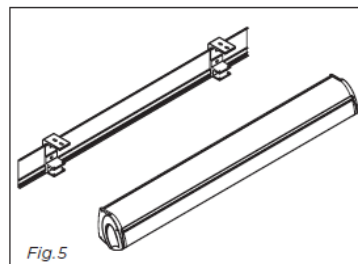
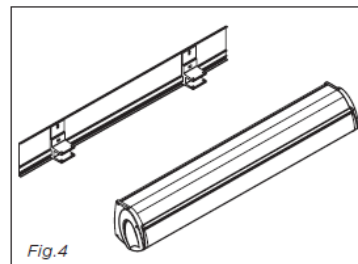
### 4.4. AWNING WITH BACK PLATE

If the awning OLIVIA must be provided with a back plate, this must be taken into account with the establishing of the different attachment points.

- a. Assembly of the back plate on the wall (Figure 4). With this assembly the back plate is fastened between the wall and the wall brackets. For this, the back plate must be provided with the necessary holes on site. Before drilling these holes one must be sure of the different attachment points.
- b. Ceiling assembly (Figure 5). In this case use is made of extra ceiling brackets. With the establishing of the different attachment points also take account of the desired positions of these ceiling clamps and this in combination with the distance to the tilting mechanisms of the arms!

One proceeds as follows:

- First carefully establish all assembly positions.
- Then assemble the ceiling brackets.
- Assemble the back plate together with the wall brackets on the ceiling brackets.
- Now slide the awning into the brackets as indicated in point 4.5.



### 4.5. ASSEMBLY ON THE WALL

Hold the awning at both ends and slip it, with the mounting profile, into the brackets (Figure 2).

Check whether the awning is perfectly centred. Check the wiring at console height if LED lighting is present.

Quickly tighten the clamping screws at the front of the brackets. **Tighten the clamping screws so that the mounting profile fits against the back side of the bracket.** To tighten the screws more easily lift the extension pole with the arms. The awning is now mounted and ready for further adjustment.

### 4.6. ADJUSTING THE ANGLE

Unroll the awning and check the position of the angle. For operating the awning: see point No. 10. The awnings are delivered from the factory at a standard angle of approximately 10 degrees to the horizontal. It will always be necessary to adjust the awning to compensate for any unevenness in the wall, even when the minimal sloping angle is acceptable.

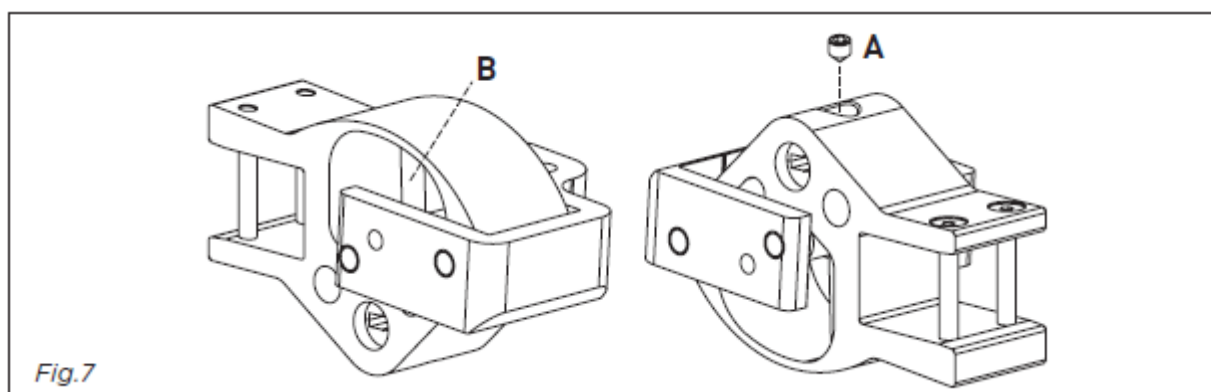
### 4.7. PRECISION ADJUSTMENT OF THE ANGLE

Unroll the awning completely. The awning is provided with two tilting mechanism to which the arms are fitted (Figure 7). First unscrew the inner-hexagonal pointed screw A at the two tilting suspensions.

This adjusting screw is located on the lower side of the arm suspension (tilting mechanism).

These adjusting screws operate to block both mechanisms and prevent the awning from blowing over. Once the pointed screws A have been removed, the head of the adjusting screw is free and can be operated using an Allen key.

Attention! Be sure to use an Allen key 7!



adjusting screw B is turned to the right, the extension pole is raised, and if turned to the left, the awning is lowered. When turning, support the arm ends.

That screw will turn much more easily if it is not supporting the weight of the arm.

This certainly applies if the arms have to be raised. To ensure that the pole is horizontal, stand in front of the middle of the awning. Look over the extension pole towards the cover to ensure that both sections are parallel. Once the angle is correct, both tilting mechanisms must be securely tightened. To do this, tighten both pointed screws 'A'.

The awning OLIVIA adjusting mechanism will guarantee continuous control of the awning.

The system is both accurate and simple to operate.

It is therefore essential to ensure that the awning is perfectly horizontal. The correct setting of the tilting mechanisms will also facilitate the rest of the assembly.

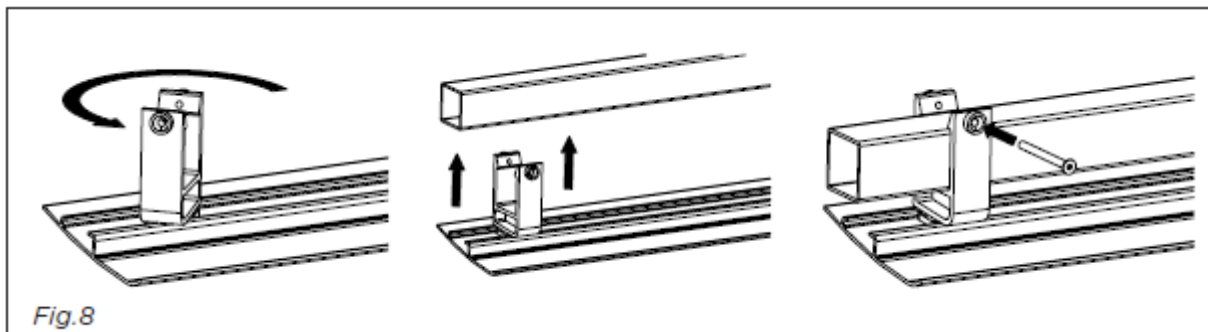
### 4.8. ATTACHMENT OF THE BOTTOM PLATE

After the adjustment of the angle, the bottom plate can be fitted on the awning. The bottom plate, together with the attachment clamps, is supplied separately within the packaging.

For assembly one proceeds as follows (Figure 8):

- Clip the bottom plate to the bottom of the cover support and do this as follows. First you push the bottom plate against the bottom of the awning. Then, with a horizontal sliding movement towards the wall, you clip the bottom plate to all the cover supports. The bottom plate is now provisionally fixed to the awning.
- Take the plastic clamps and use them to secure the bottom plate definitively to the cover support.
- The complete bottom plate can then be clipped onto the torque bar. The clamps have two wedge-shaped notches that clip over the torque bar. Finally, fasten each clamp using the supplied Allen bolts.

- d. If LED lighting is present, connect the connector.



### 4.9. ADJUSTING THE EXTENSION POLE

#### 4.9.1. ADJUSTING THE EXTENSION POLE

The distance between the extension pole and the housing will depend on the angle of the arms. In order to vary the distance between the pole and the housing and to position the extension pole correctly, both arms are provided with a rotational system, always allowing the extension pole to be correctly positioned. (Figure 9).

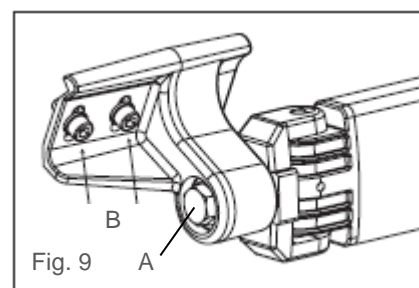
For adjustment purposes please follow these instructions:

Roll up the awning. Study the position of the extension pole and see what adjustments are required to allow the extension pole to fit correctly.

Note: the correct position of the extension pole is obtained from the lateral cover. The contour of the extension pole must correspond to that of the lateral covers. The contour of the lead-in piece of the extension pole fits into the piece on the mounting profile.

Now, unroll the awning, allowing room for head and shoulders between the box and extension pole and ensuring that the bolts A of the rotational system can be operated easily. (Figure 9). To adjust the extension pole, unscrew A in the rotational mechanism on both arms.

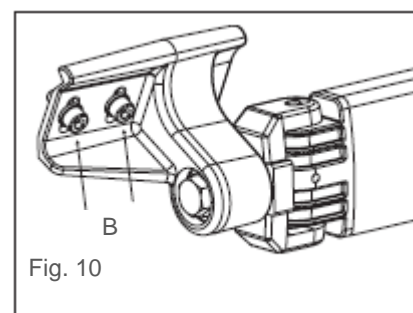
When these screws are loose, the tension of the fabric will rotate the extension pole, with the upper side towards the wall. The extension pole can now be correctly positioned by rotating it. Then quickly tighten screw A. The extension pole is now fixed in position.



#### 4.9.2. ADJUSTING THE DISTANCE BETWEEN THE HOUSING AND THE EXTENSION POLE

If necessary, the distance between the housing and extension pole can be adjusted. To do this, slightly slacken both screws of the attachment plate (screws B of Figure 12). Next, move the attachment strip upwards or downwards in the vertical grooves, so as to position the extension pole at the correct height to the cover. As the fabric is under constant pressure, it is advisable to push the arm slightly when adjusting.

Tighten the screws. The attachment strip must be positioned as close to horizontal as possible. Now repeat this procedure with the other arm.



### 4.10. ADJUSTING THE ELECTRICAL OPERATION

For connection and adjusting the electric motor, see page 12.

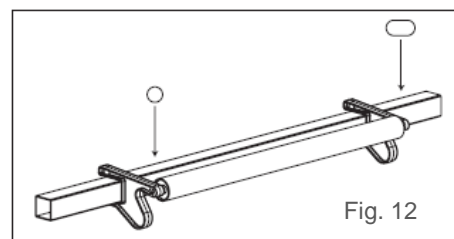
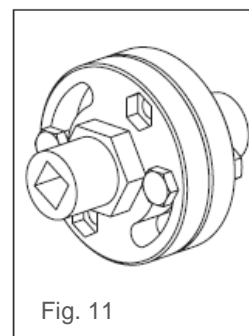
### 4.11. COUPLED AWNINGS

Two fabrics with slit covering

In the case of two fabrics and a fabric slit covering, two complete awnings will be supplied, one of which is provided with the joint electric drive, and the other with a coupling. Position the brackets on the wall and follow the instructions applicable to a single awning. Slip the part with the electric drive into these brackets. Take the second section of the coupled awning and slip it into the brackets. Position the two sections opposite each other, ensuring that the two fabric grooves are in line with each other. Use the bolts supplied to clamp the two coupling discs together (Figure 14).

If the awning is provided with a fabric slit covering, the mounting profile will be fitted close to the coupling with two supports to carry the fabric spring roller (Figure 15). Place the spring-loaded axle and the fabric in the supports at the front of the mounting profile. If required, shift a support in order to fit the spring roller.

Apply approximately 7 full turns of pretension to the spring-loaded axle before pulling the end of the fabric to the front as far as the extension pole. (The narrow fabric is positioned beneath the large fabrics). Pull the two extension poles just a little apart and slip the fabric of the fabric slit covering into the groove of the extension pole. Then link the extension pole using the coupling part supplied.

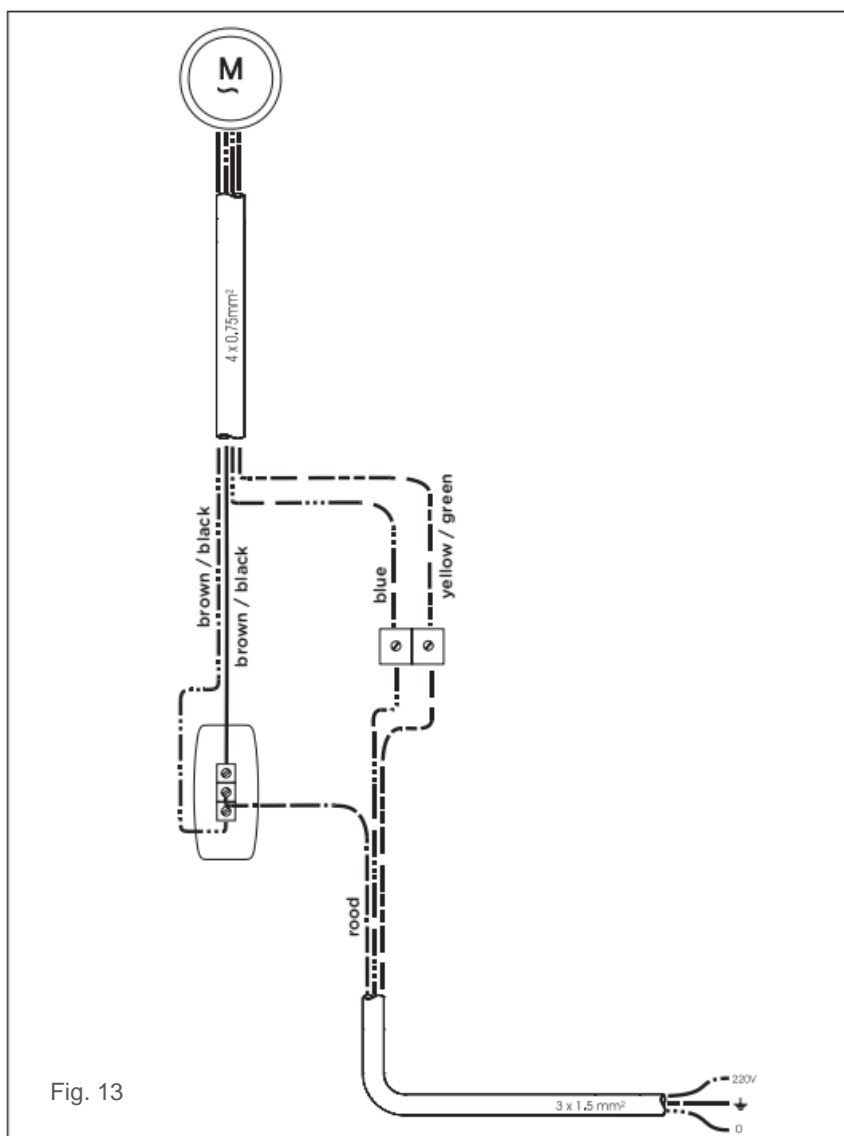


## 5. CONNECTING THE SINGLE-POLE SWITCH AND ADJUSTING THE MOTOR

### 5.1. SINGLE-POLE SWITCH

Firstly, connect the electric cable of the motor to a test cable.

Four wires exit the motor: yellow-green (earth), blue (neutral), brown and black (up and down direction). Three wires exit the fuse box: yellow-green (earth), blue (neutral) and a phase wire. Connect the wires as shown on the diagram. The phase wire exiting the fuse box is to be connected to clamp P. If necessary, reverse the brown and black wire of the motor within the switch, so that the arrows on the switch correspond to the raising and lowering direction of the awning. Connect the two blue wires in the housing of the switch by means of a cable clamp. Do the same for the two earth wires.



### 5.2. SETTING OF THE END SWITCHES OF THE MOTOR

In principle, the end switches of the motor are already set at the factory.

But it may be necessary to change the setting.

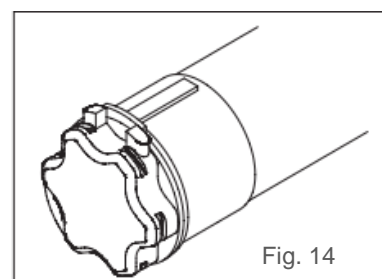
For this proceed as follows:

First remove the yellow cap from the adjusting buttons.

Press in both adjusting buttons fully, against their stops. The end settings are now fully removed in both directions.

Now allow the awning to roll out until the desired position is reached.

Note: never allow arms to go past their straightened position but stop them a little before. Then place the switch to its neutral.



Press the white or yellow button (depending on the building-in-side) so that it rises slightly. Then roll up the awning again and stop at a distance of 10 cm before the closing of the awning. Then press the blue setting button and have it rise slightly.

Let the motor run down for 20 cm. Then close the awning completely. One can hear the motor hum for a few seconds (to compensate a possible later dilatation of the fabric) and then switch itself off.

Replace the cover cap on the button.

The end switches of the motor are now set.

### 5.3. WHY USE AND MRI 2 RELAY BOX?

If several motors are operated using the same switch, you must always use a relay box.

If relay boxes are not used under these circumstances, the integral limit switches of the motor will soon burn out, due to the high inductive and capacitive voltages which are mutually generated.

A useful tip: Always use the relay boxes and switches supplies by Isotra.

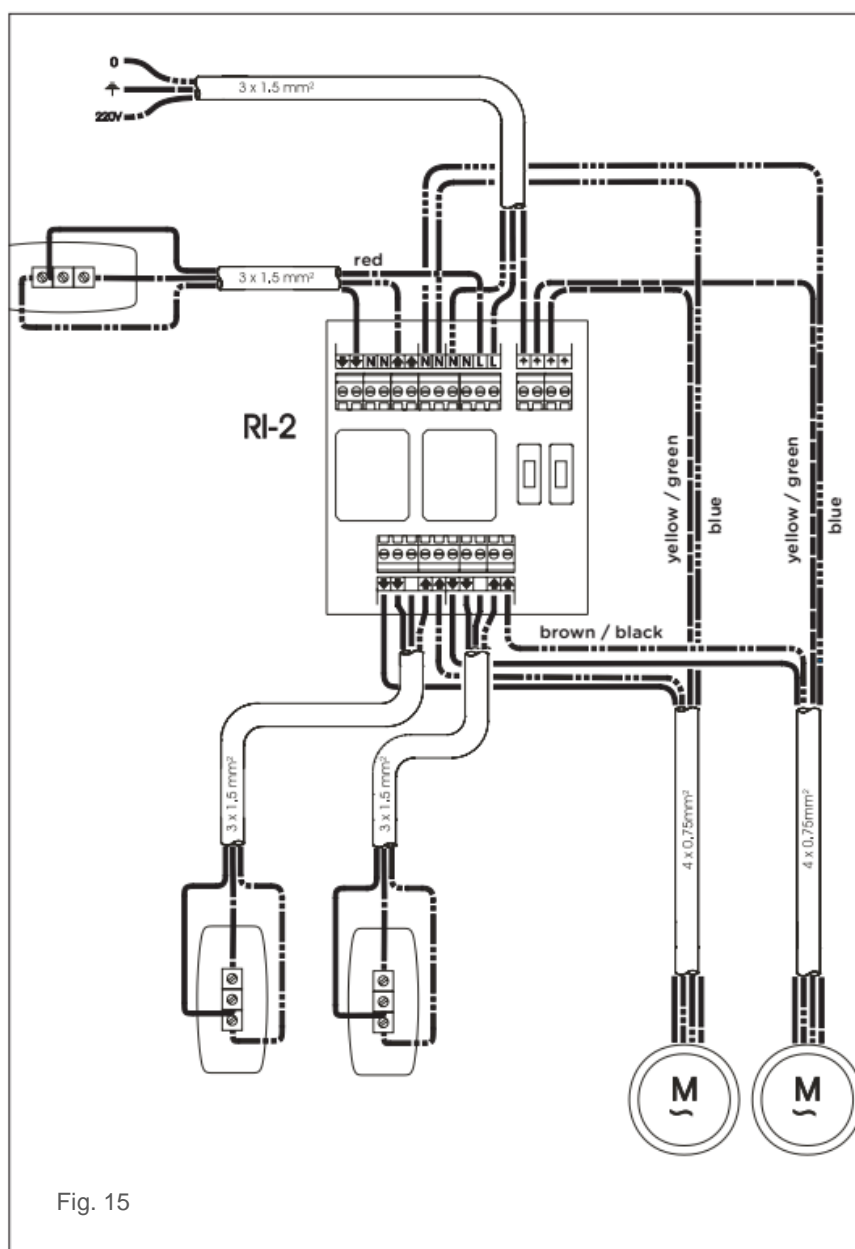


Fig. 15

### 6. OTHER MOTORS

The awning OLIVIA is also available with an Orea WT, Orea RTS or Sunea IO motor for the awning. Choose from an RTS or IO motor to control the vario valance.

To connect and operate these motors, follow the instructions in the supplied manuals for motors and/or remote controls.

### 7. LED LIGHTING

The power cable for the LED lighting must be connected to the mains.

If you have purchased a standard version without a receiver, you need to provide a switch to operate the LED lighting. If you have purchased RTS or IO-operated LED lighting, to set this up, please follow the instructions supplied for the remote control.

### 8. TROUBLE-SHOOTING

#### 8.1. THE MOTOR DOESN'T ROLL OUT OR IN

The internal end switch of the motor hasn't been activated in any direction. Press in both adjusting buttons of the motor and continue with the setting of the end positions. (E.2.)

#### 8.2. THE MOTOR FAILS TO STOP IN TIME

As a rule, motors are adjusted at the plant. By altering the slope and position of the extension pole, it may be necessary to re-adjust the motor. See point E.2. regarding adjustment.

#### 8.3. ONE SIDE OF THE EXTENSION POLE UNDERNEATH THE COVER IS NOT LEVEL WITH THE OTHER SIDE

This may be because the fabric has not been rolled up evenly but slantingly.

Check that the fabric on the roller axle and the extension pole are perfectly parallel.

If necessary, adjust the fabrics on the pole.

Fabrics are attached to the border of the extension pole by a plug. If the fabric continues to roll up unevenly, add an extra piece of fabric to one of the side seams.

#### 8.4. THE ARMS WILL NOT COME IN SIMULTANEOUSLY

If the attachment points of the arms on the extension pole are not at a correct distance from each other, one of the two arms will close slightly quicker than the other.

Roll the fabric up almost fully but ensure that sufficient space is left to apply the Allen key to the clamping plate on the inside of the extension pole.

Be careful: the arms are under constant tension and may slide in the groove.

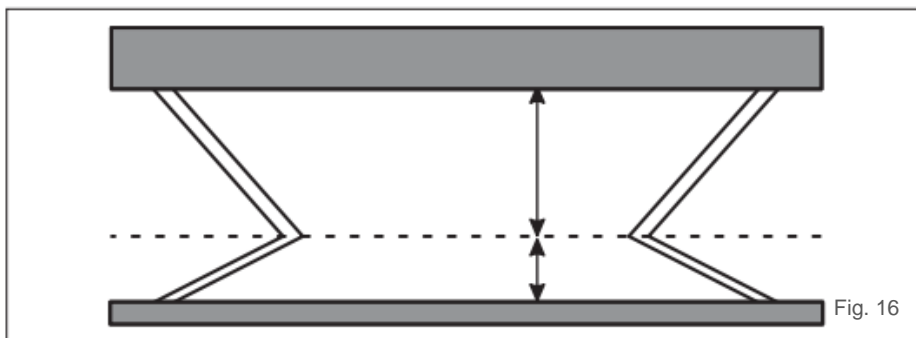
Roll the awning up a bit further and shift the arms, ensuring that the central articulated points of the arms are perfectly in line.

If necessary, shift the entire extension pole and move it to the centre of the two lateral plates.

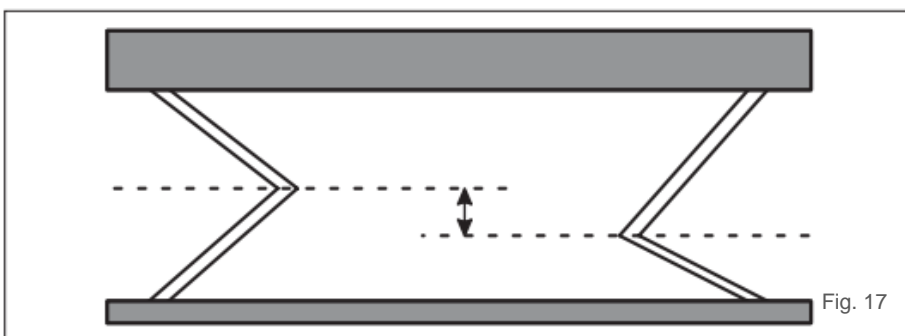
Tighten the screws on the clamping plate with the Allen key.

### 8.5. THE AWNING MAKES A CRACKING SOUND

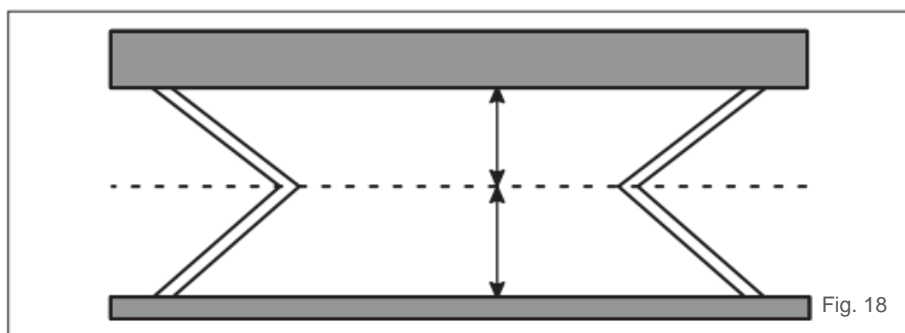
Tighten the clamping screws at the front side of the wall brackets very well.



Faulty: there is no symmetry, distance A does not correspond with distance



Faulty: the articulated points are not in one



Correct: the articulated points are in one line and distance A equal's distance B

### 9. LABELS

If necessary, do apply warning labels.

Isotra reserves the right to make changes at any time to the construction without having to inform the client beforehand, and therefore without having to adapt existing installations.