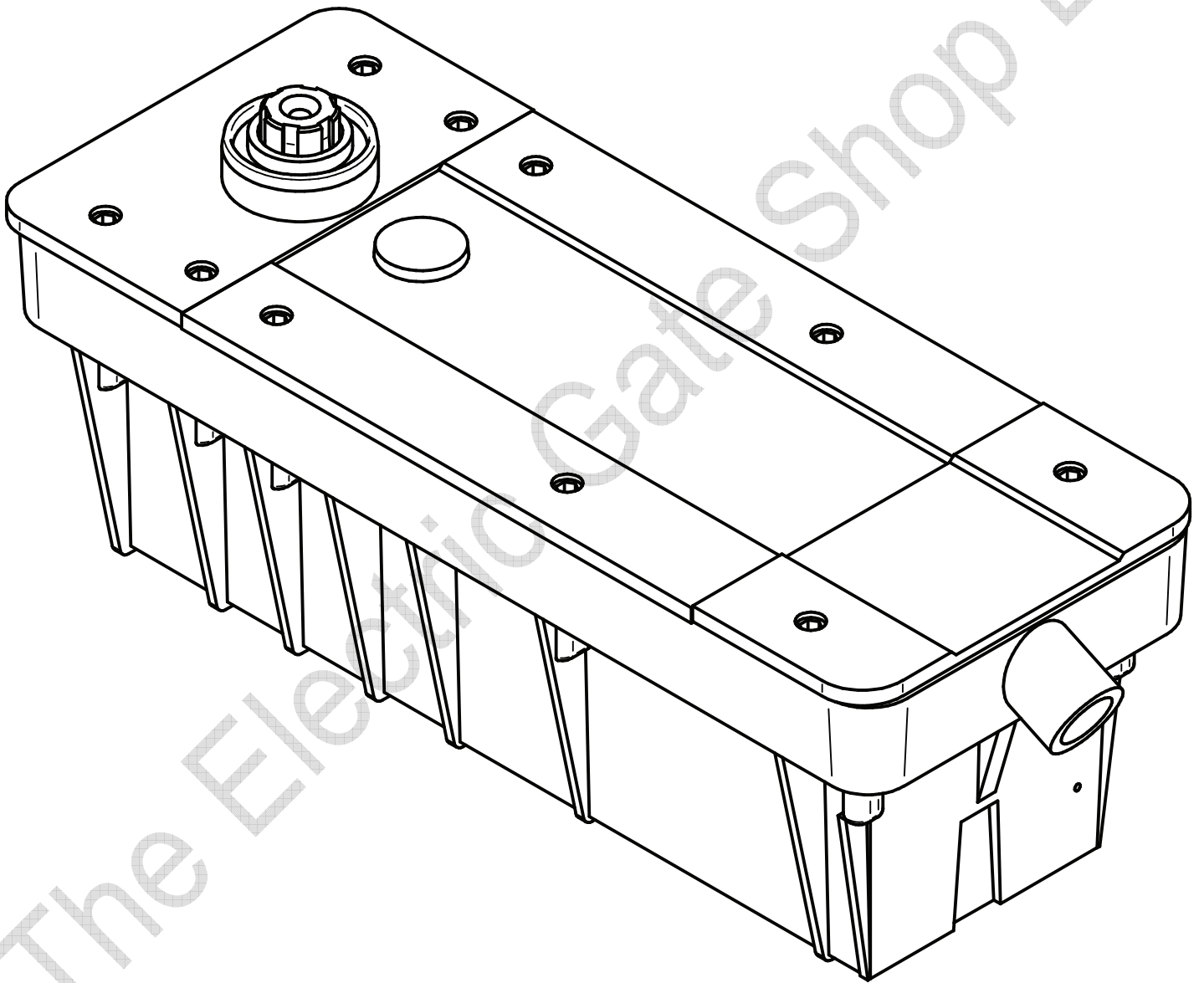
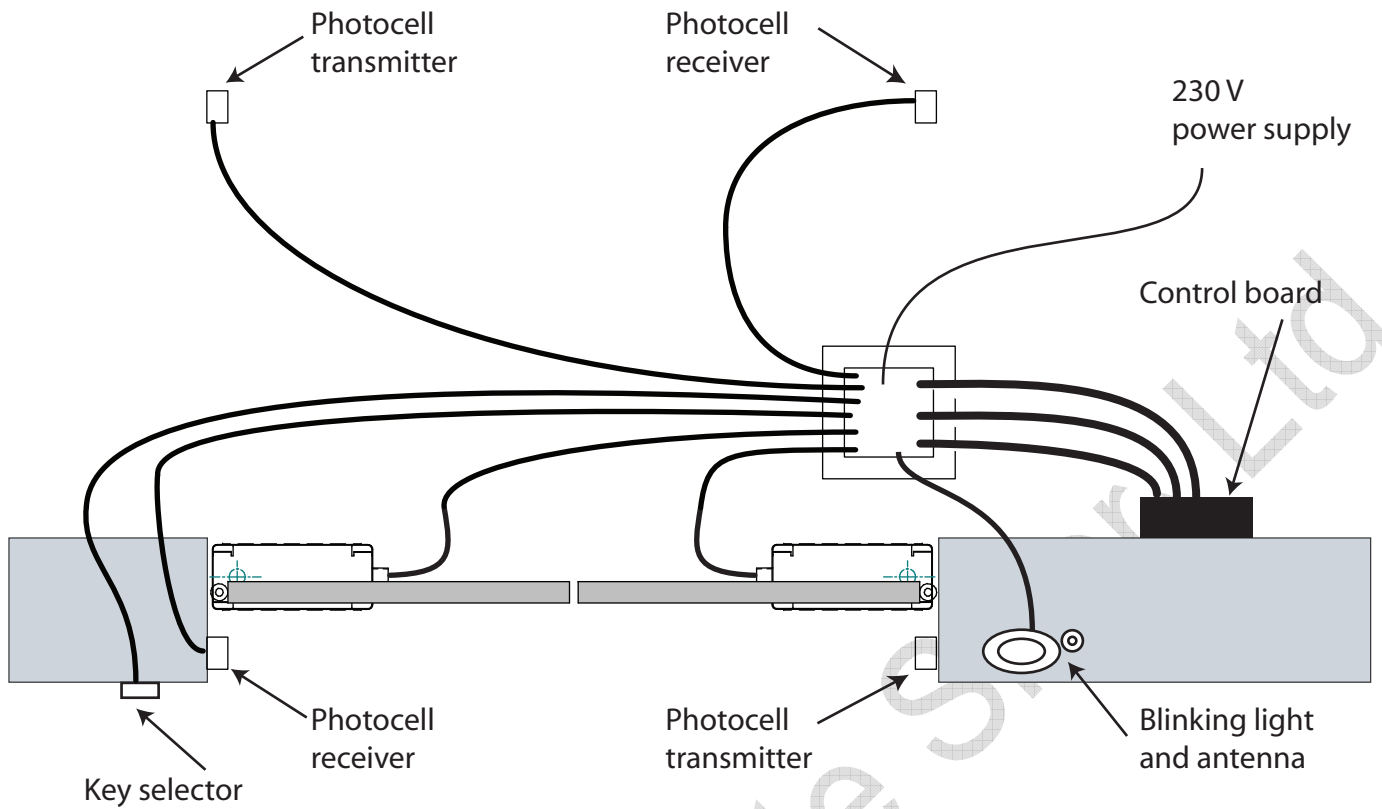


# BA502



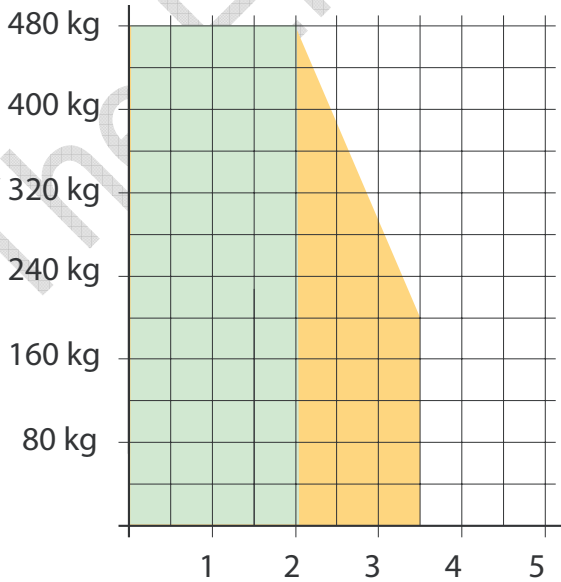
# DUCT CABLES POSITION



- 230V power supply : 3G 2,5mm<sup>2</sup>
- Motor power supply : 3G 1,5 mm<sup>2</sup>( FROR CEI 20-22 CEI EN 50267-2-1 )
- Blinking light : 2x0,5mm<sup>2</sup>
- Photocell transimtter : 2x0,5mm<sup>2</sup>
- Photocell receiver : 4x0,5mm<sup>2</sup>
- Key selector: 3x0,5mm<sup>2</sup>
- Antenna : RG58 ( Max 3 metres )

## GATE DIMENSIONS , CHOICE OF FOUNDATION BOX AND BRACKET

( Gate weight )



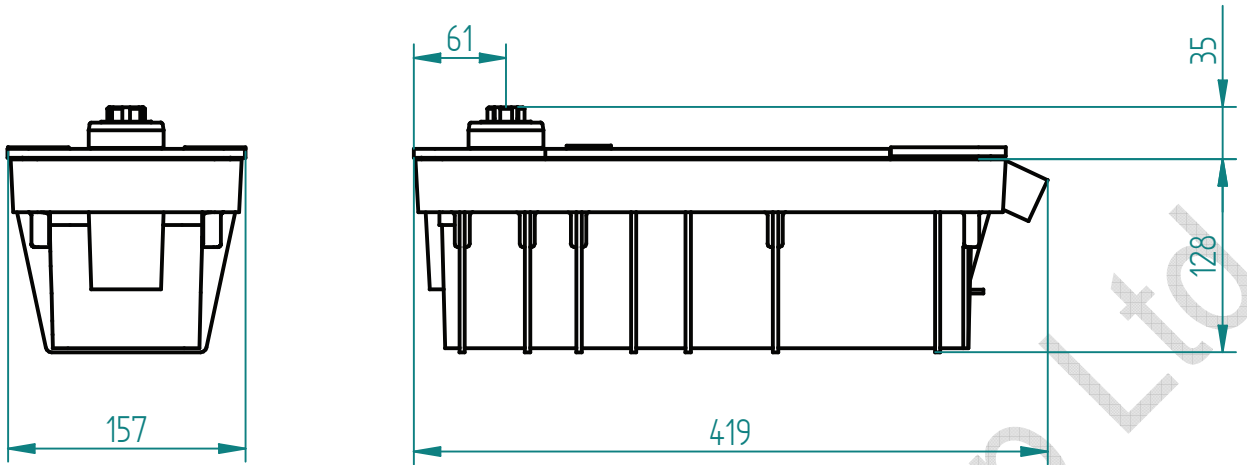
BA502 + BOX/002(003) + LEVER/004  
BA502 + BOX/002(003) + LEVER/014

BA502 + BOX/004 + LEVER/004  
and Key lock box

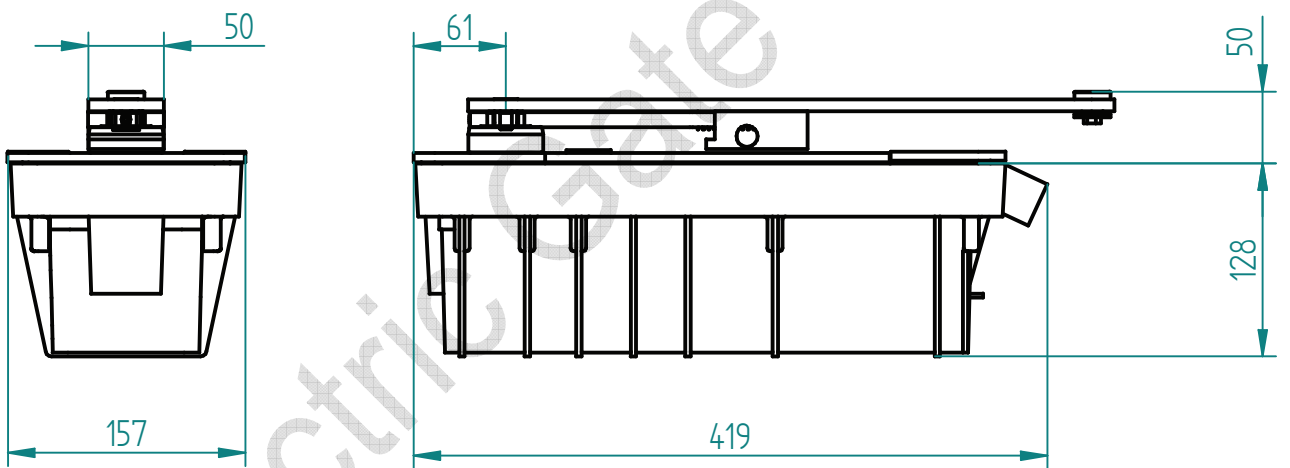
BA502 + BOX/004 + LEVER/014  
and Key lock box

( Gate length )

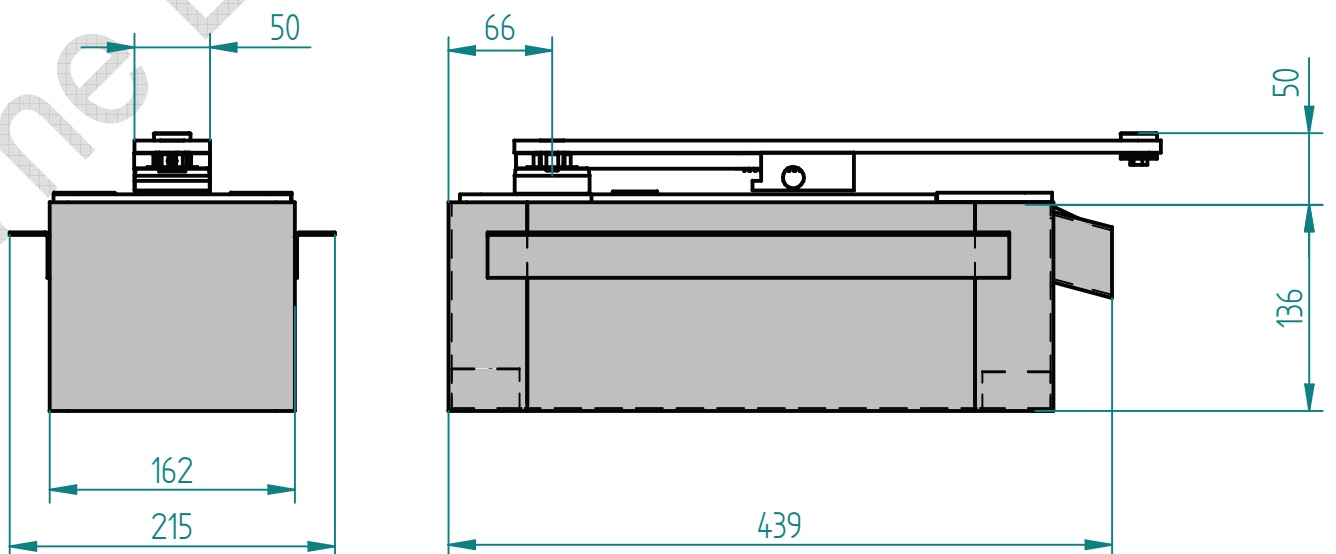
BA502



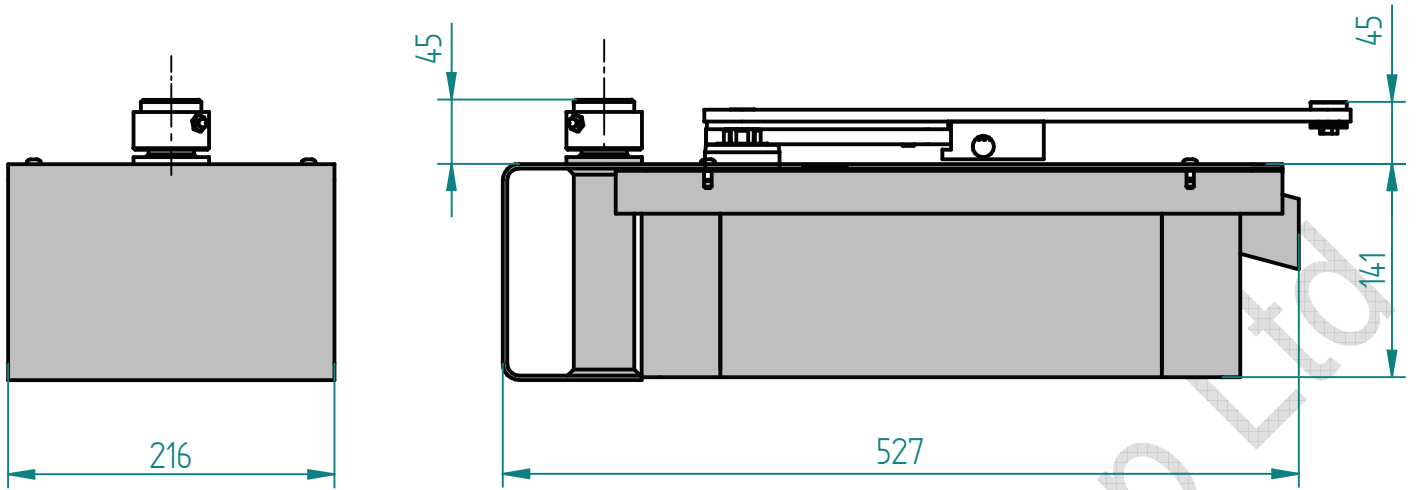
BA502 + LEVER/004



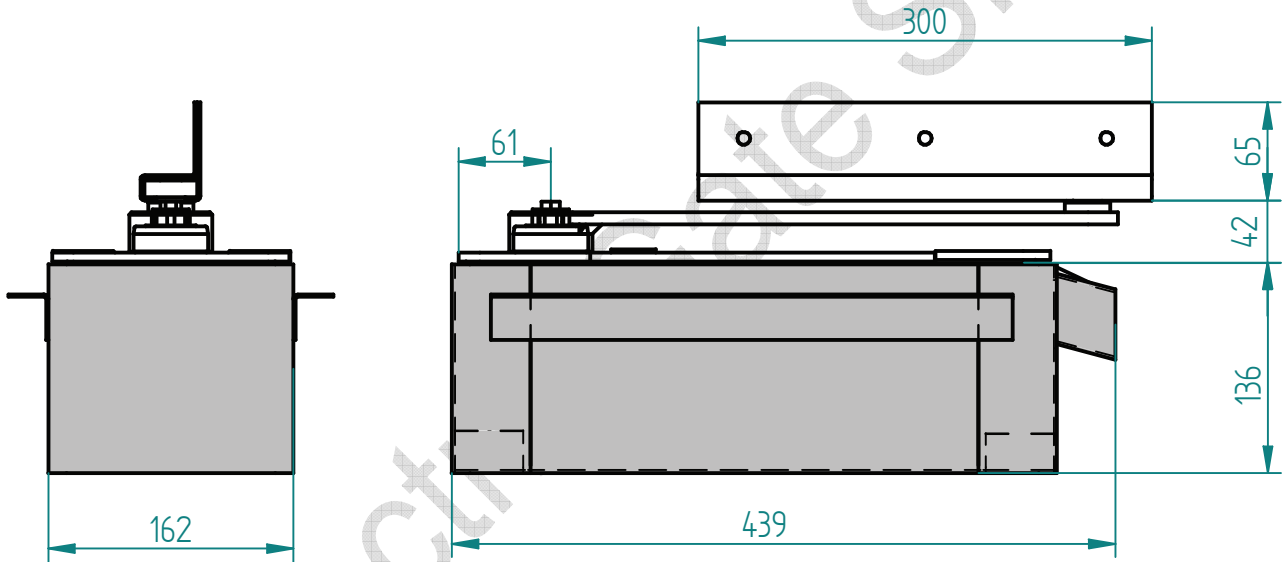
BA502 + LEVER/004 + BOX/002



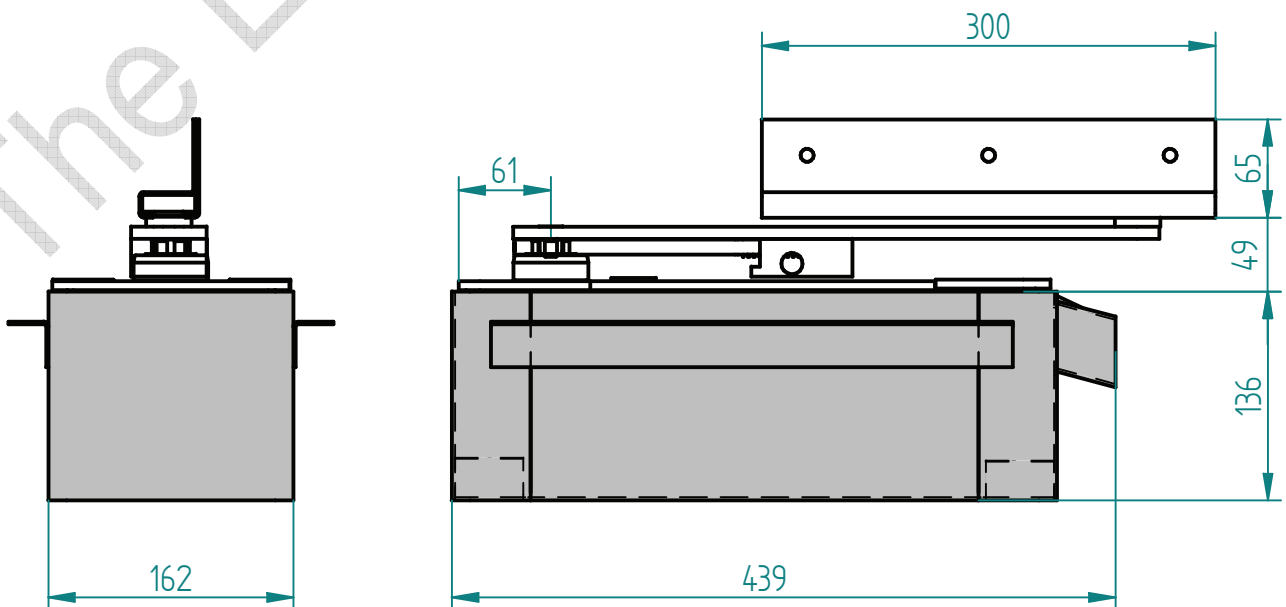
BA502+BOX/004+LEVER/004



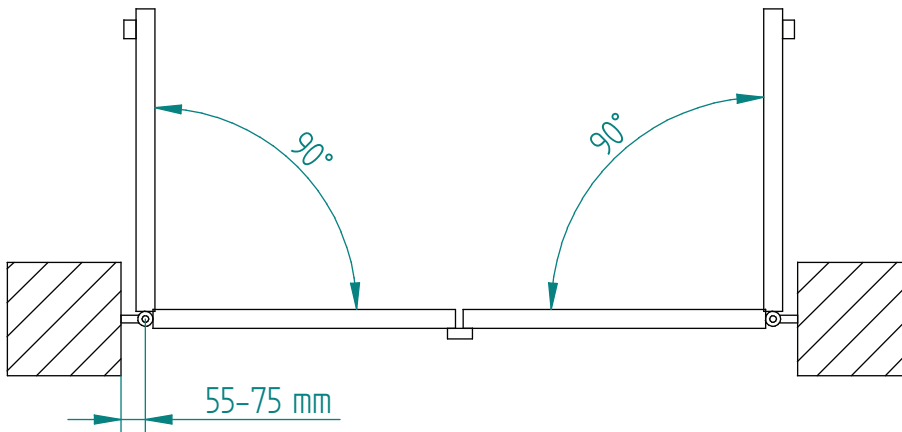
BA502 + BOX/002+LEVER/012



BA502 + BOX/002+LEVER/014

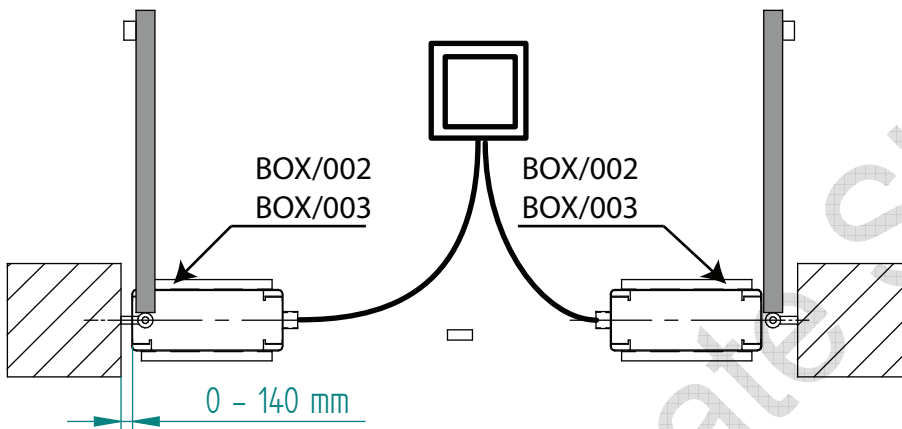


## BA502 + BOX/002 or BOX/003 foundation box + LEVER/004 bracket , 90° opening



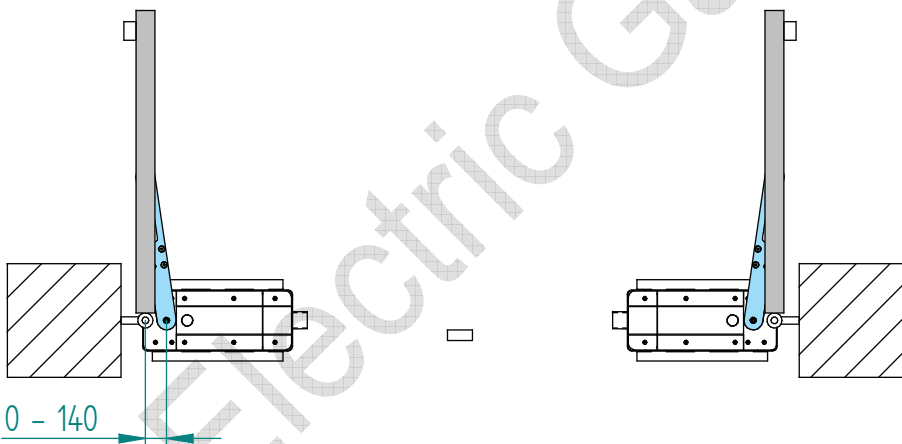
Check that axis of the hinges is at a distance between 55 and 75 mm ( 2 - 3 inches ) from the pot.

Put the BOX002 or BOX003 foundation boxes at a max distance of 140 mm ( 5,5 inches ) from the pots. Set up a water drainage on the bottom of the BOX002



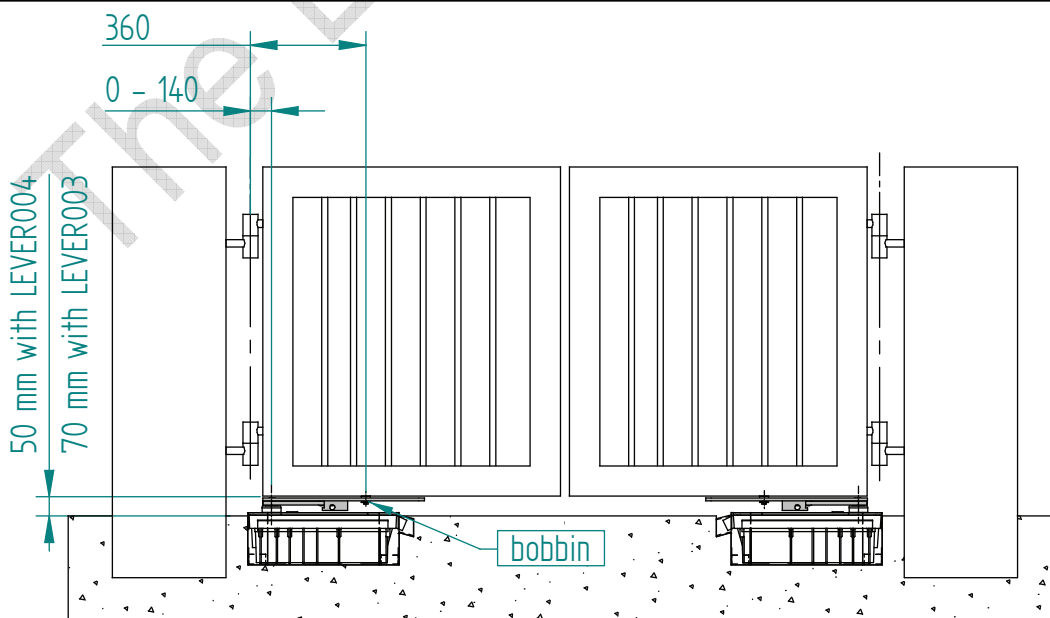
Insert the duct cable in the hole on the rear part of BOX002 as shown in figure. Place the BOX002 on the floor with back face against the column.

Check that the upper edge of the foundation box is at the same level of the pavement. Check that the foundation box is perfect horizontal with a bubble level.

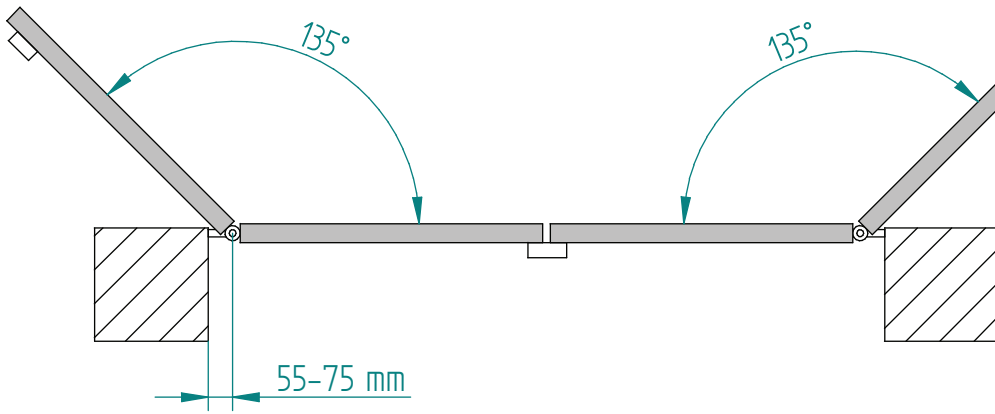


Check that the distance between the gate and the pavement is 70 mm ( 3 inches ) for LEVER/003 bracket or 50 mm ( 2 inches ) for LEVER/004 bracket.

Weld the bobbin suited with the LEVER/003 or LEVER/004 arm on the lower face of the gate at a distance of 320 mm ( 12,6 inches ) from the axis of the hinges.



**BA502 + BOX/002 or BOX/003 foundation box + LEVER/004 bracket , 135° opening**



Check that axis of the hinges is at a distance between 55 and 75 mm ( 2 - 3 inches ) from the pot.

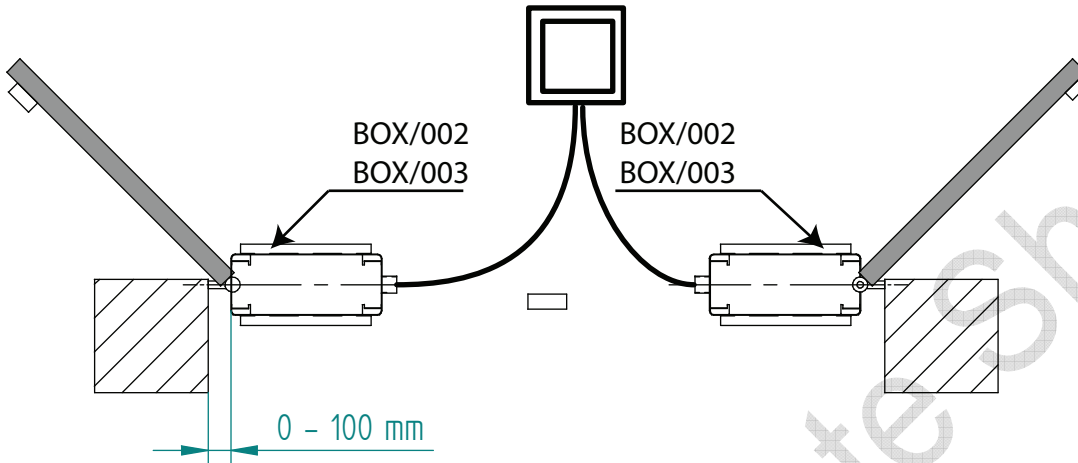
Put the BOX002 or BOX003 foundation boxes at a max distance of 100 mm ( 4 inches ) from the pot.

Set up a water drainage on the bottom of the BOX002

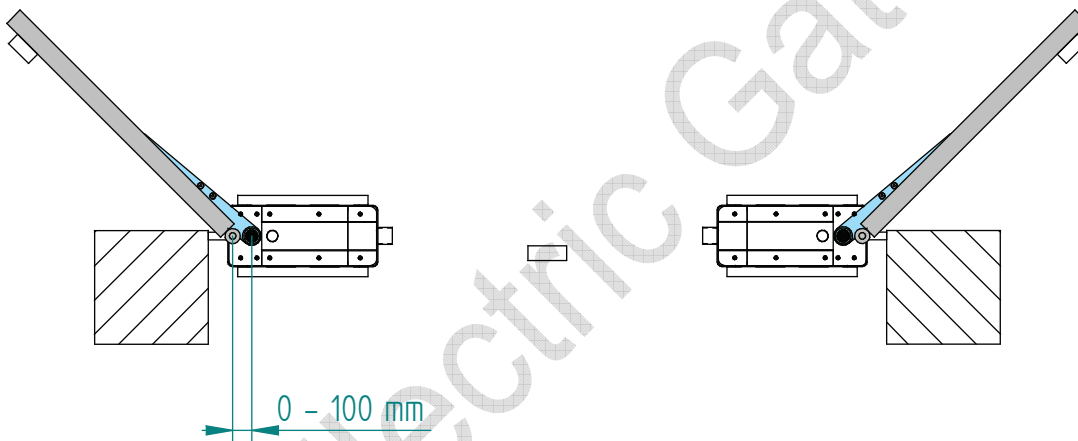
Insert the duct cable in the hole on the rear part of BOX002 as shown in figure. Place the BOX002 on the floor with back face against the column.

Check that the upper edge of the foundation box is at the same level of the pavement.

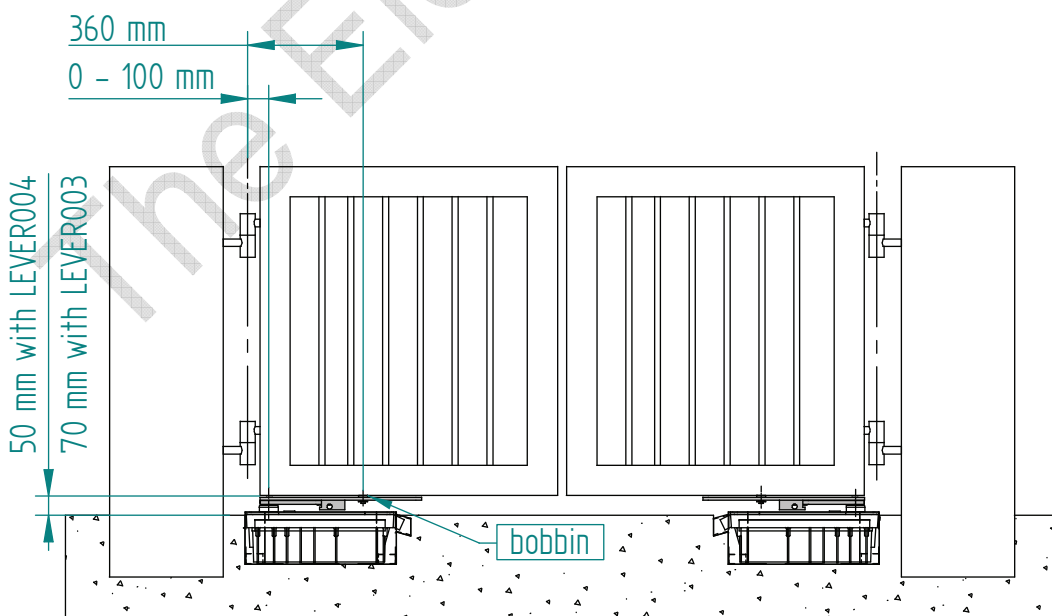
Check that the foundation box is perfect horizontal with a bubble level.



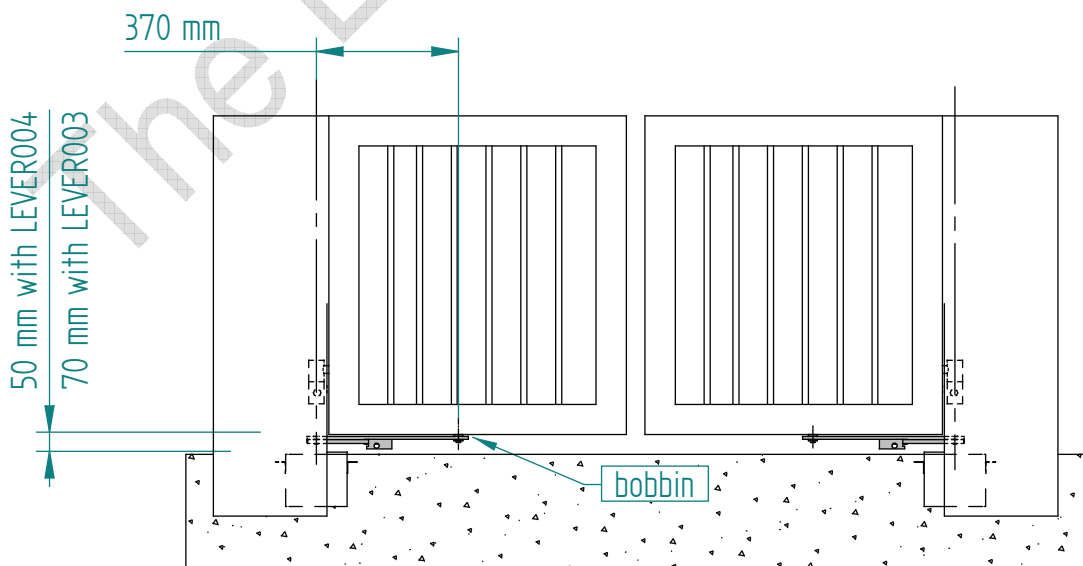
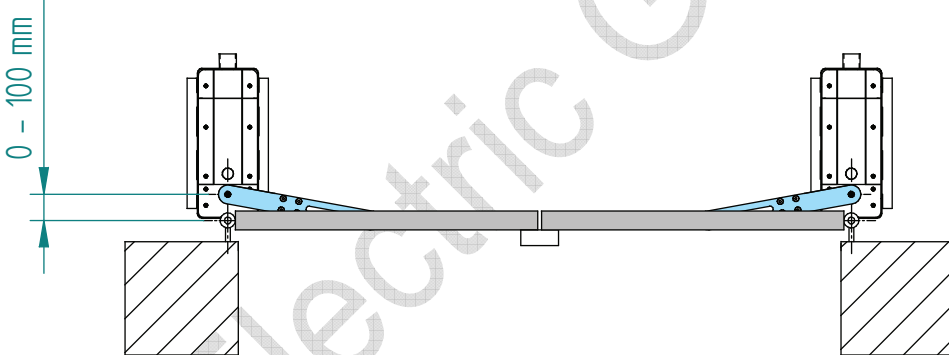
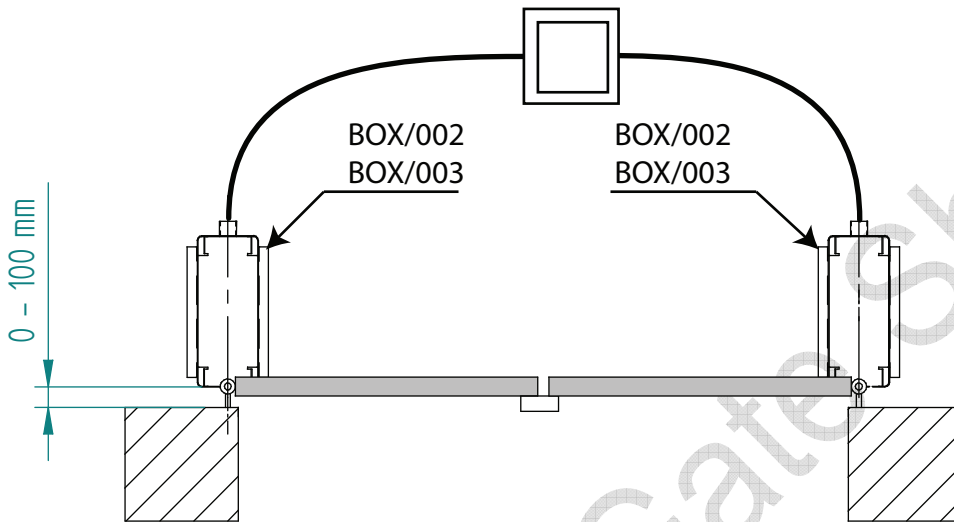
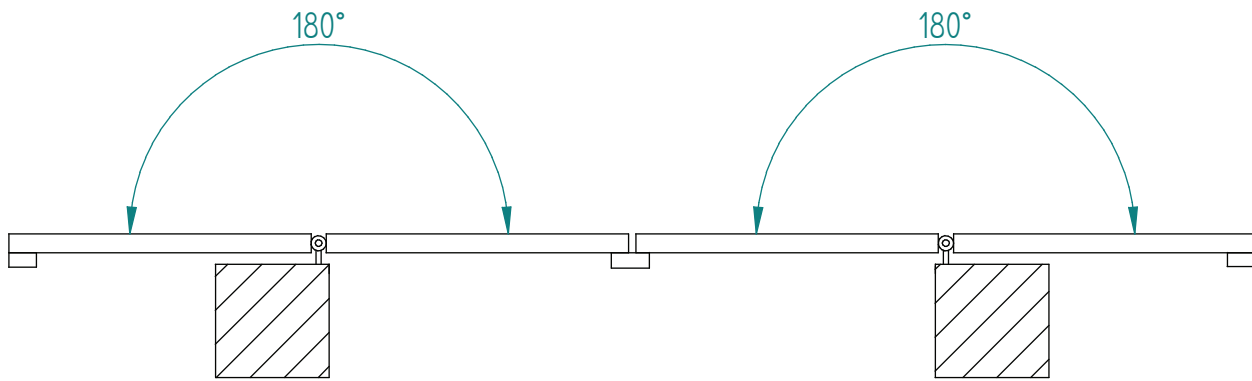
Check that the distance between the gate and the pavement is 70 mm ( 3 inches ) for LEVER/003 bracket or 50 mm ( 2 inches ) for LEVER/004 bracket.



Weld the bobbin suited with the LEVER/003 or LEVER/004 arm on the lower face of the gate at a distance of 360 mm ( 14 inches ) from the axis of the hinges.



**BA502 + BOX/002 or BOX/003 foundation box + LEVER/004 bracket , 180° opening**



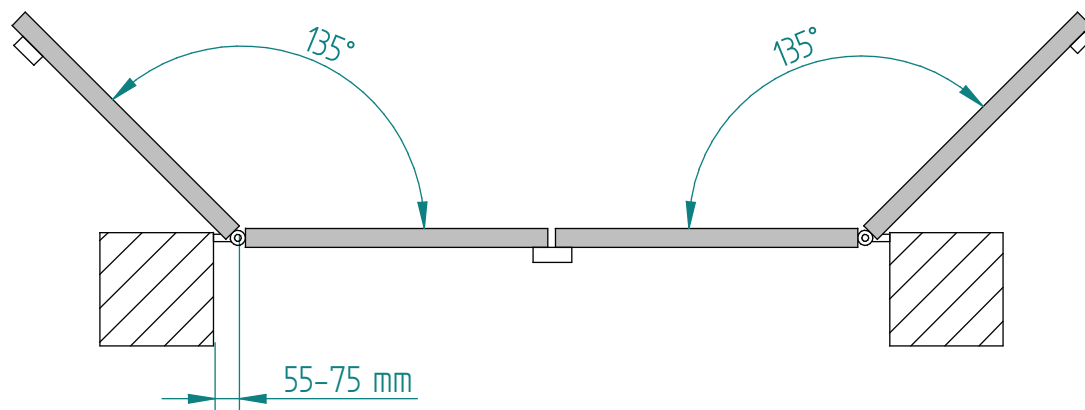
Check that axis of the hinges is at a distance between 55 and 75 mm ( 2 - 3 inches ) from the pot.

Put the BOX002 or BOX003 foundation boxes at a max distance of 100 mm ( 4 inches ) from the pot. Set up a water drainage on the bottom of the BOX002. Insert the duct cable in the hole on the rear part of BOX002 as shown in figure. Place the BOX002 on the floor with back face against the column. Check that the upper edge of the foundation box is at the same level of the pavement. Check that the foundation box is perfect horizontal with a bubble level.

Check that the distance between the gate and the pavement is 70 mm ( 3 inches ) for LEVER/003 bracket or 50 mm ( 2 inches ) for LEVER/004 bracket.

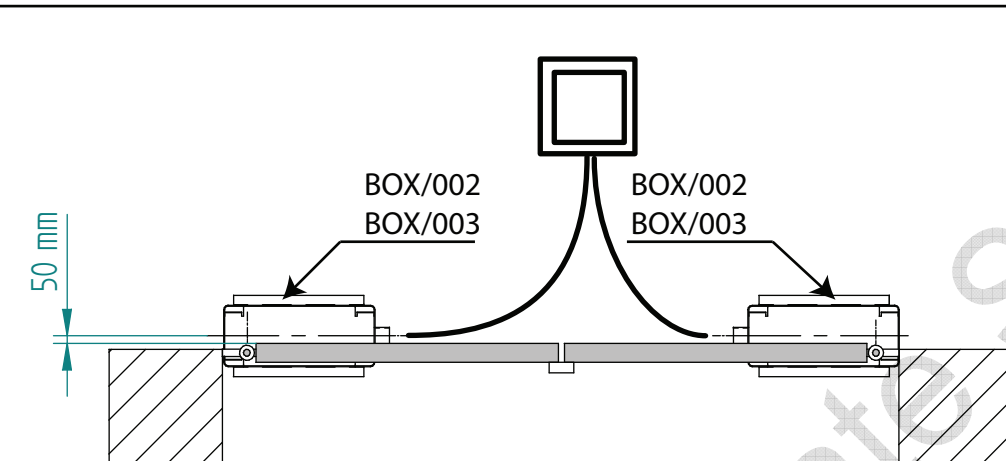
Weld the bobbin suited with the LEVER/003 or LEVER/004 arm on the lower face of the gate at a distance of 370 mm ( 14 inches ) from the axis of the hinges.

**BA502 + BOX/002 or BOX/003 foundation box + LEVER/014 bracket , 135° opening**



Check that axis of the hinges is at a distance between 55 and 75 mm ( 2 - 3 inches ) from the pot.

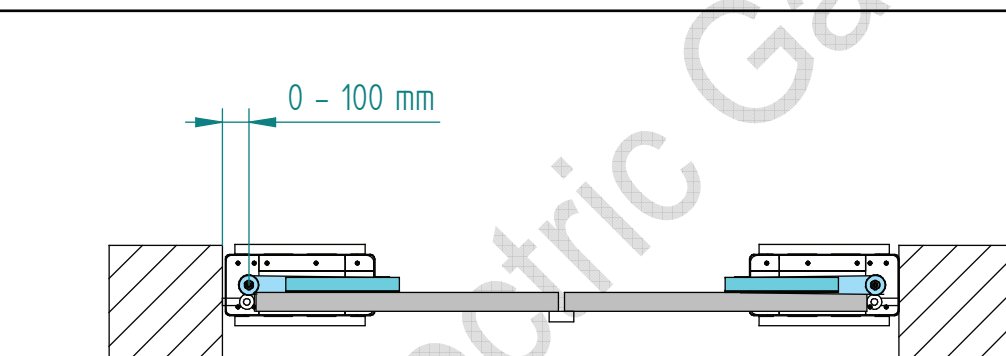
Put the BOX002 or BOX003 foundation boxes at a max distance of 100 mm ( 4 inches ) from the pot and with the middle line of the foundation box at 50 mm ( 2 inches ) of distance from the inner face of the gate.



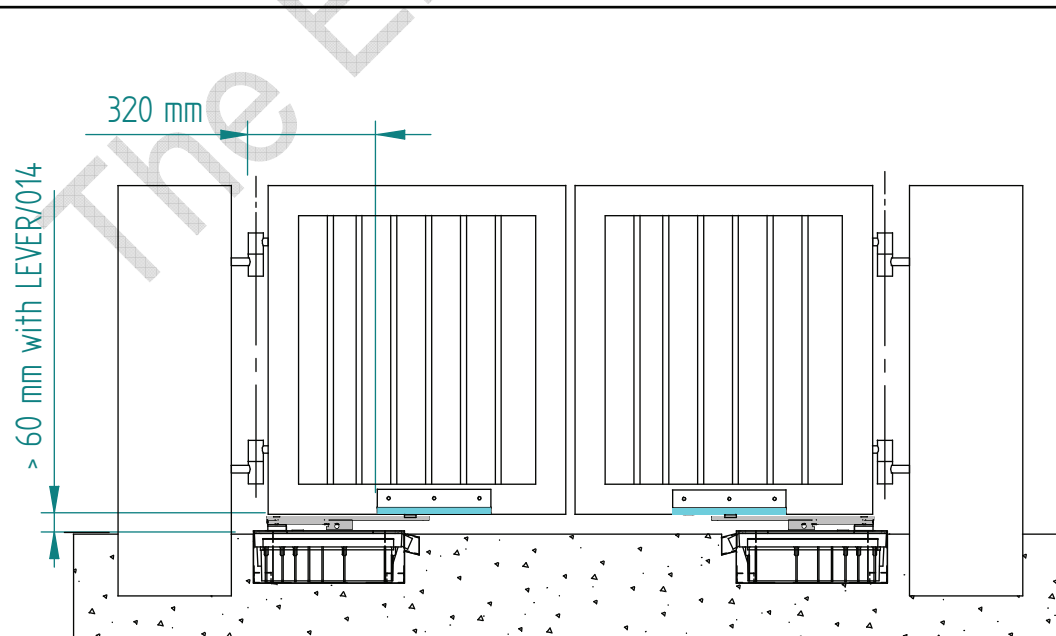
Set up a water drainage on the bottom of the BOX002 Insert the duct cable in the hole on the rear part of BOX002 as shown in figure. Place the BOX002 on the floor with back face against the column.

Check that the upper edge of the foundation box is at the same level of the pavement.

Check that the foundation box is perfect horizontal with a bubble level.

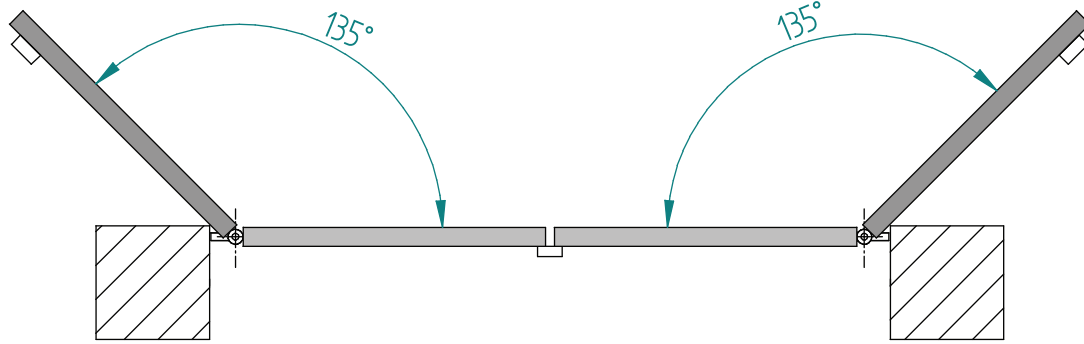


Check that the distance between the gate and the pavement is more than 60 mm for LEVER/012 bracket.

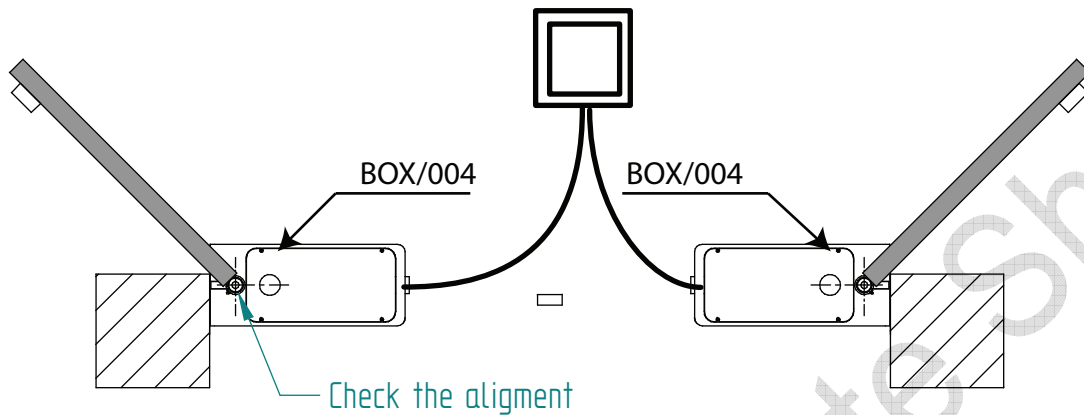


Bolt the guide suited with the LEVER/012 on the inner face of the gate at a distance of 320 mm (12,6 inches ) from the axis of the hinges.

## Double swing wooden gate, 135° opening angle with BOX/004 foundation boxes



Check that axis of the hinges is at a distance between 55 and 75 mm ( 2 - 3 inches ) from the pot.

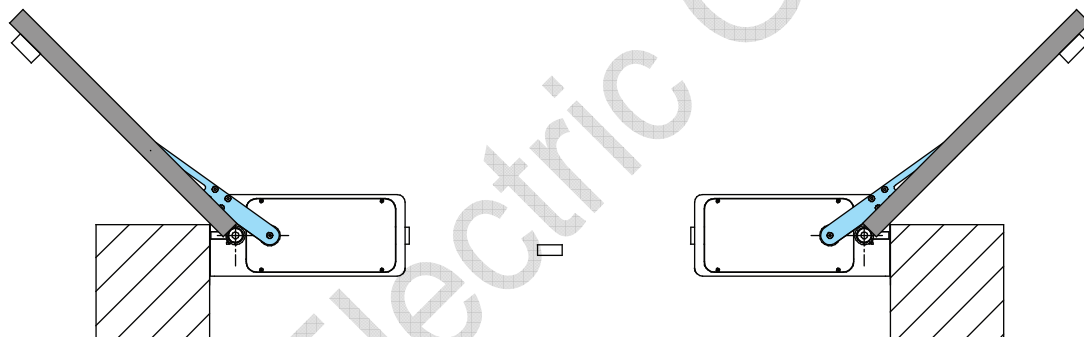


Set up a water drainage on the bottom of the BOX004. Insert the duct cable in the hole on the rear part of BOX004 as shown in figure. Place the BOX004 on the floor with back face against the column.

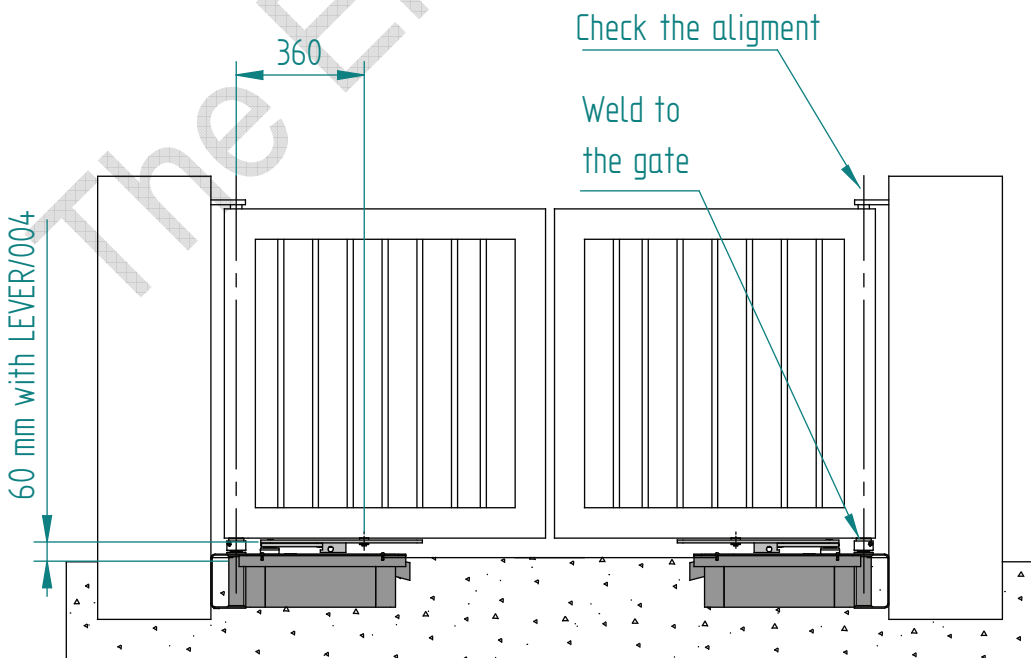
Check that the upper edge of the foundation box is at the same level of the pavement.

Check that the foundation box is perfect horizontal with a bubble level.

Check that the spherical hinge on the BOX004 and the axis of the upper hinge are aligned.

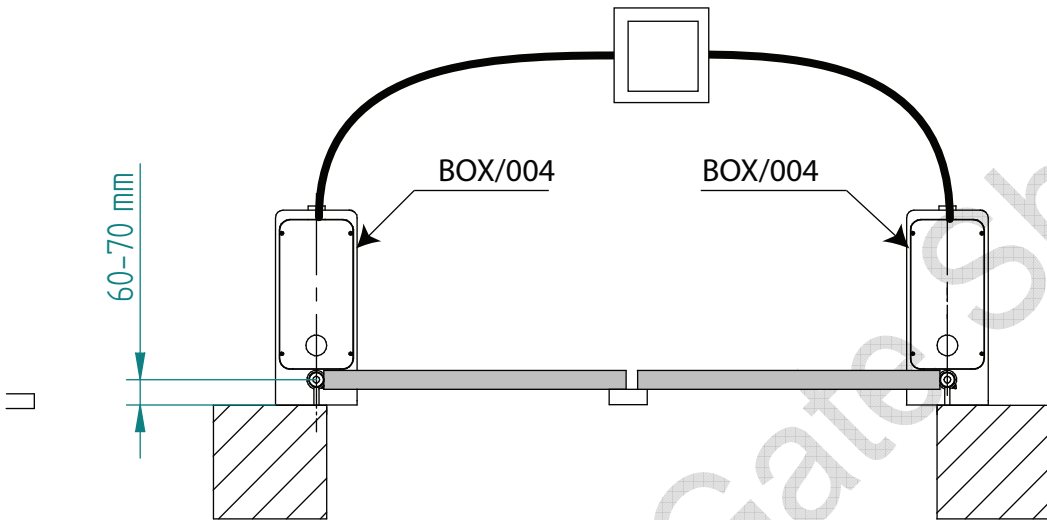
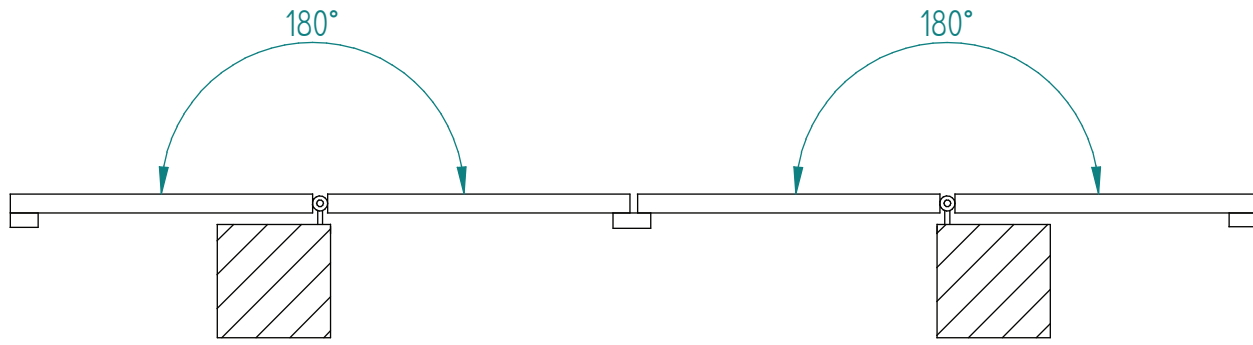


Check that the distance between the gate and the pavement is more than 60 mm for LEVER/004 bracket.



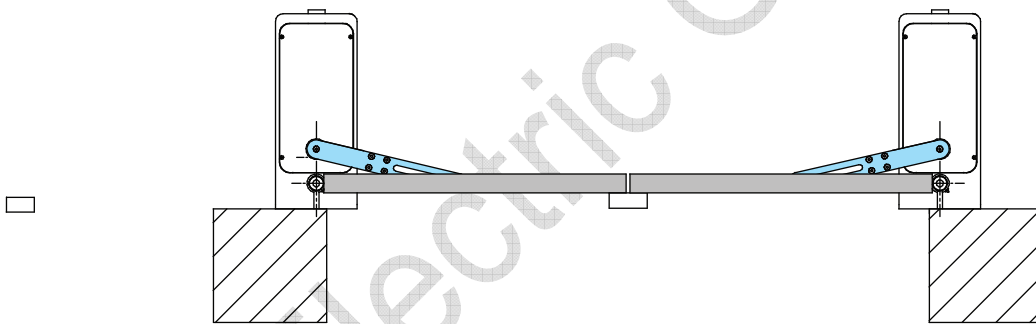
Weld the bobbin suited with the LEVER/004 arm on the lower face of the gate at a distance of 360 mm ( 14 inches ) from the axis of the hinges.

BA502 + BOX/004 foundation box + LEVER/004 bracket , 180° opening

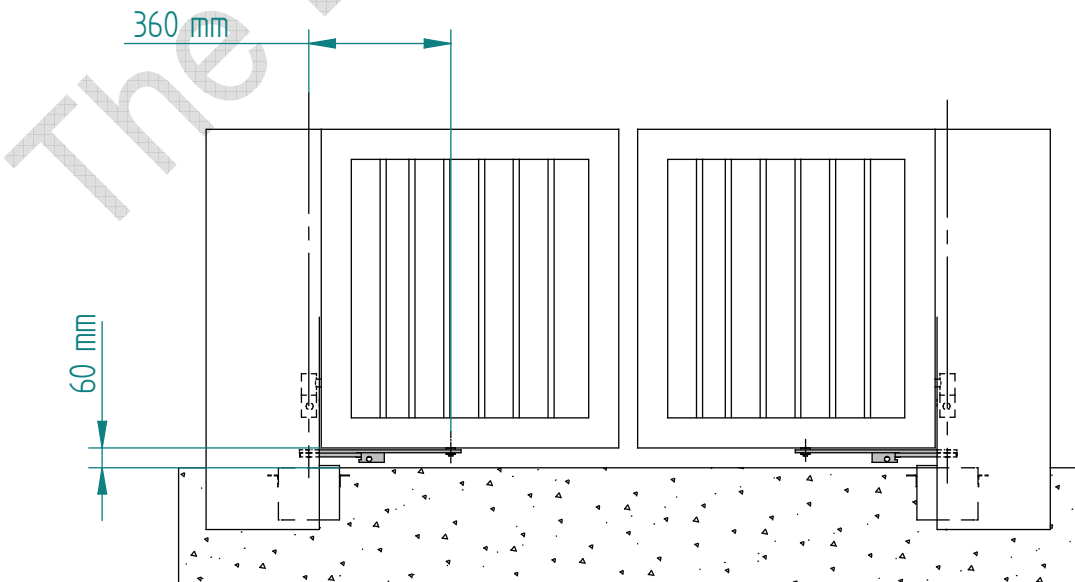


Check that axis of the hinges is at a distance between 60 and 70 mm ( 2,5 - 3 inches ) from the pot.

Set up a water drainage on the bottom of the BOX004 Insert the duct cable in the hole on the rear part of BOX004 as shown in figure. Place the BOX004 on the floor with back face against the column.



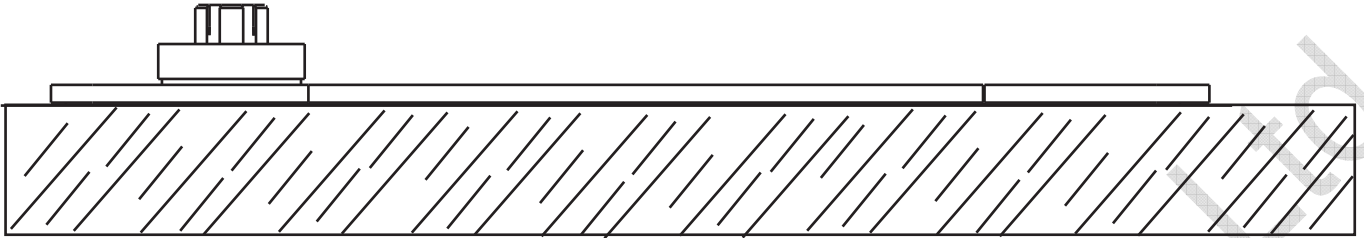
Check that the upper edge of the foundation box is at the same level of the pavement. Check that the foundation box is perfect horizontal with a bubble level. Check that the spherical hinge on the BOX004 and the axis of the upper hinge are aligned.



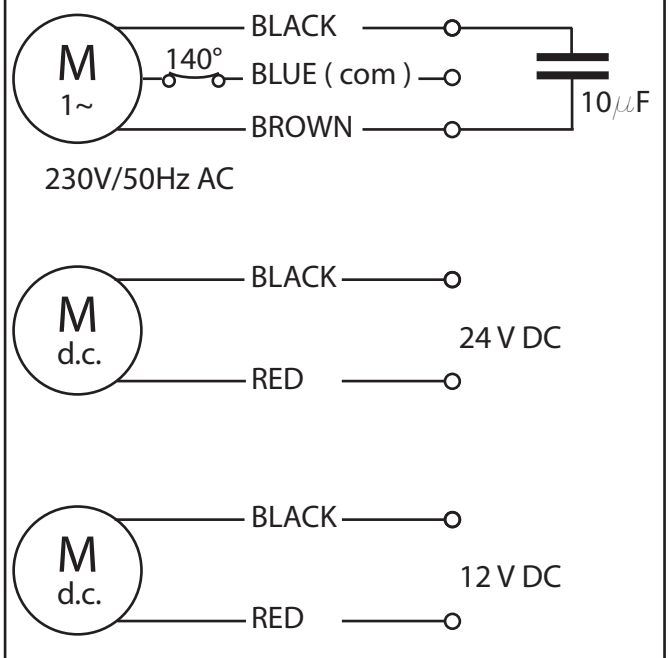
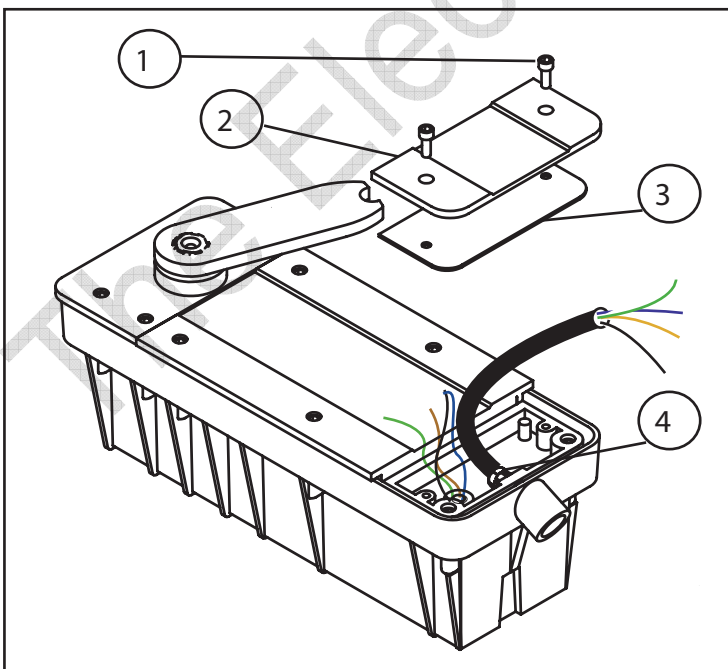
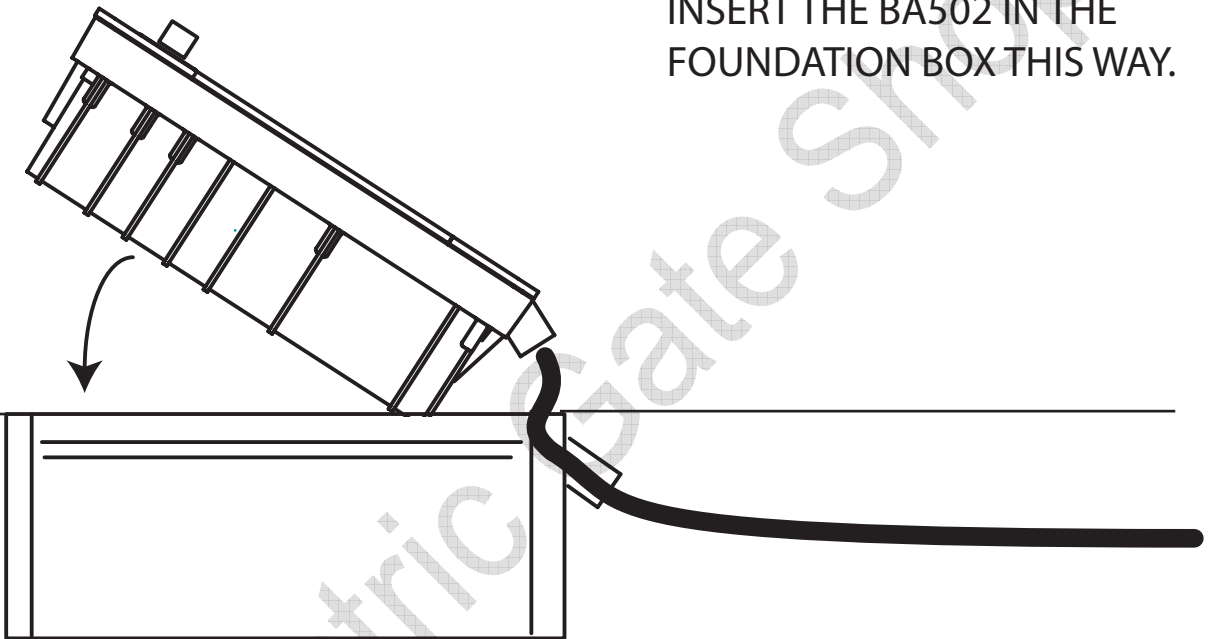
Check that the distance between the gate and the pavement is more than 60 mm for LEVER/004 bracket.

Weld the bobbin suited with the LEVER/004 arm on the lower face of the gate at a distance of 360 mm ( 14 inches ) from the axis of the hinges.

**COVERS MUST REMAIN COMPLETELY OVER THE LEVEL OF THE GROUND!**

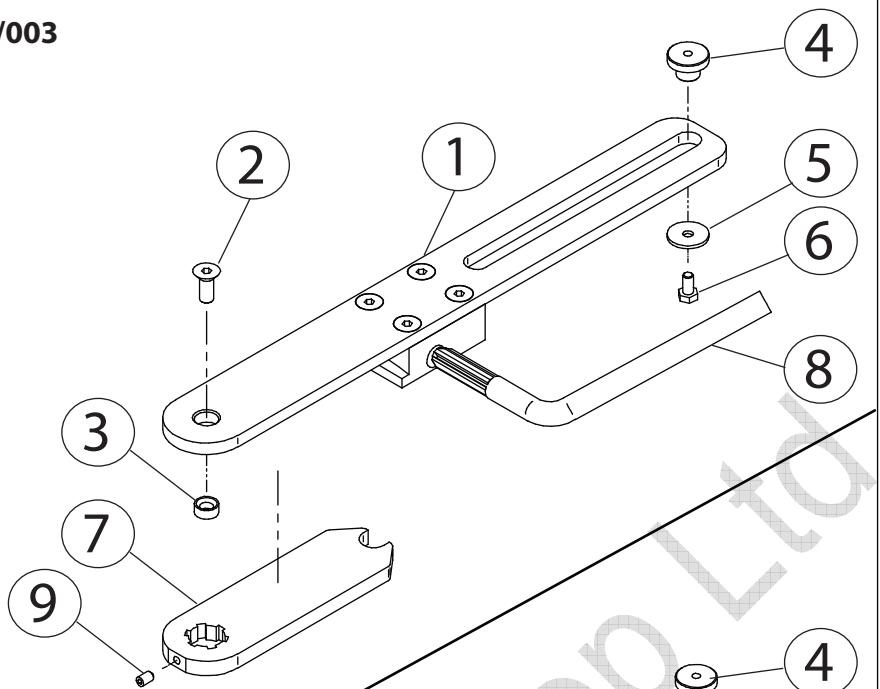


**INSERT THE BA502 IN THE FOUNDATION BOX THIS WAY.**



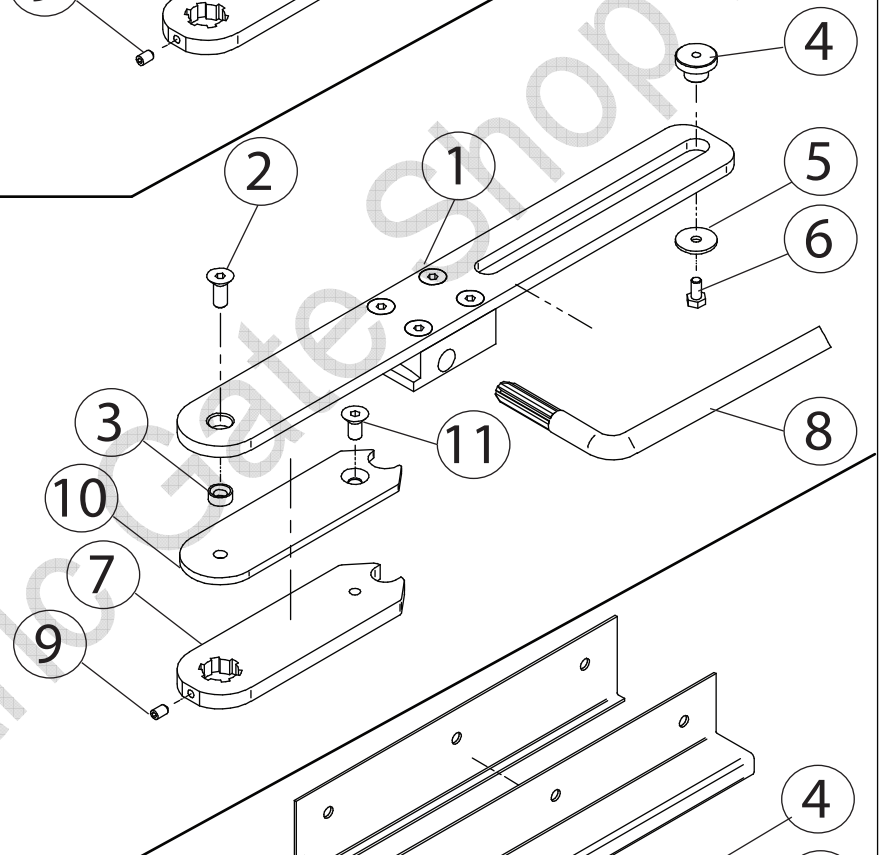
**LEVER/004 for BOX/002 or BOX/003  
foundation box**

- [1] Long bracket
- [2] Flathead screw M8x20
- [3] Spacer
- [4] Bobbin
- [5] Washer 6x24
- [6] Screw M6x12
- [7] Short bracket
- [8] Unlock arm
- [9] Headless screw M6x8



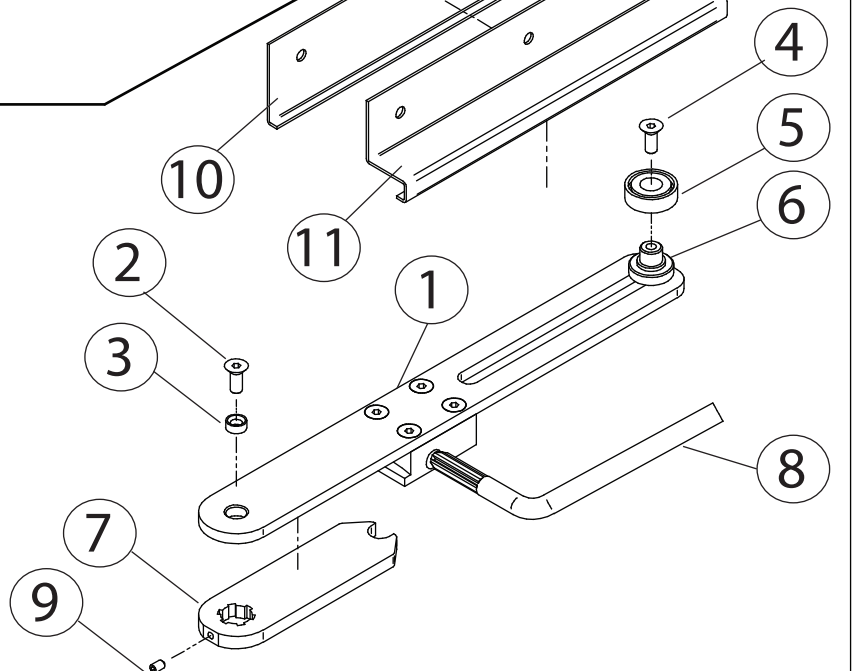
**LEVER/004 for BOX/004  
foundation box**

- [1] Long bracket
- [2] Flathead screw M8x20
- [3] Spacer
- [4] Bobbin
- [5] Washer 6x24
- [6] Screw M6x12
- [7] Short bracket
- [8] Unlock arm
- [9] Headless screw M6x8
- [10] Spacer plate
- [11] Flathead screw M8x12



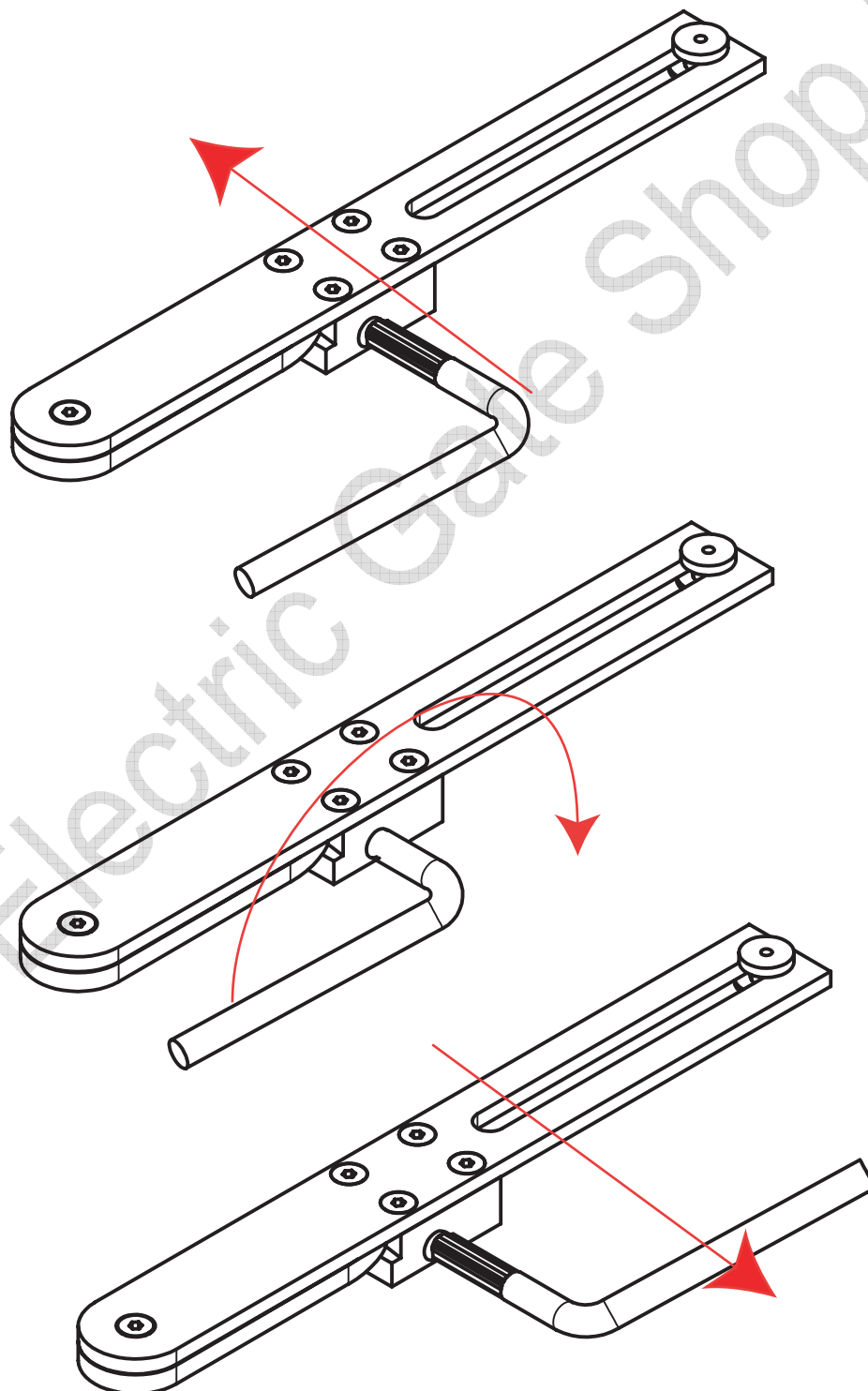
**LEVER/014**

- [1] Long bracket
- [2] Flathead screw M8x20
- [3] Spacer
- [4] Flathead screw M6x12
- [5] Bearing 6202
- [6] Pin
- [7] Short bracket
- [8] Unlock arm
- [9] Headless screw M6x8
- [10] "L" shaped guide
- [11] "S" shaped guide



## MANUAL RELEASE INSTRUCTION

1. Cut the power supply off.
2. Insert the L-key to the hole on the bracket in a way that the handle is positioned towards the outer part of the gate
3. Turn the L-key.
4. At this point it is possible to move the gate manually. Please keep in mind that now the gate can be moved also by the wind. So please take the necessary precautions.
5. Take the key off and place it in a secure place.
6. To get back to the automatic functioning please give an opening command. the bracket will hook automatically.



## 1. TECHNICAL DETAILS

### BA502/230V

Power supply	230 V~/50Hz AC
Current	1.2 A
Power	220 W
Torque	405 Nm
Isolation	Classe H
Opening time ( 90° )	16 s
Max wing weight	300 Kg
Max wing length	
/CB	2.0 m
/SB	3.0 m
Working class	domestic
Working cycle	50%
Temperature	-20° C / +50 °C
Degree of protection	IP 68
Lubrification	Agip OSO32
Weight	15 Kg

### BA502/12V

Power supply	12V DC
Current	7.0 A
Power	60 W
Torque	148 Nm
Isolation	Classe H
Opening time ( 90° )	16 s
Max wing weight	300 Kg
Max wing length	
/CB	2.0 m
/SB	3.0 m
Working class	domestic
Working cycle	50%
Temperature	-20° C / +50 °C
Degree of protection	IP 68
Lubrification	AGIP SL00
Weight	15 Kg

### BA502/24V

Power supply	24V DC
Current	4.0 A
Power	70 W
Torque	148 Nm
Isolation	Classe H
Opening time ( 90° )	16 s
Max wing weight	300 Kg
Max wing length	
/CB	2.0 m
/SB	3.0 m
Working class	domestic
Working cycle	50%
Temperature	-20° C / +50 °C
Degree of protection	IP 68
Lubrification	AGIP SL00
Weight	15 Kg

## PRELIMINARY CHECKS

Check that the structure is sufficiently sturdy and that the hinge pivots are properly lubricate.

Provide an opening and closing stop.

If you use BOX/002 or BOX/003 every wing have to be supported by two hinges. Chek that wing can not exit from hinges and fall.

Remove dangerous points and protect with rubber/sensitive edges if necessary.

Use the /CB version only wing up to 2 meters of lenght.

If the wing is larger than 2 m, it is advisable to use the /SB version and to mount an electric lock so as to improve burglar resistance.

Connect power supply to an omnipolar switch with a contact opening gap of no less than 3 mm (not supplied by us).

Connection to supply mains must be carried out in an independent raceway separate from control connections and safety device connections.

## INSTALLATION PREARRANGEMENT (page 4-9)

Chek examples in the previous pages and find best choice of foundation box and bracket and opening angle for your installation.

## GEARMOTOR INSTALLATION (page 10)

Open the wing in complete opening position.

Route a 4x1 cable in the duct, then in the hole on the foundation box and then in the passcable in the gearmotor. ( page 10 ).

Put the gearmotor in the foundation box.

Remove the cover [2] ( page 10 ) to make easier the procedure.

## BRACKET INSTALLATION ON BA502/CB ( page 11 )

Put the bracket [1] on the torque shaft of the gearmotor.

Secure the bracket with the spacer [3] and the screw [2].

Weld the bobbin [4] under the wing.

If it is not possible to weld drill the bobbin with a 8mm drill and bolt the bobbin under the gate with a M8 screw.

Put the wing on the hinges making sure that the bobbin threads in the slot on the bracket.

Open and close the door and verify that the bobbin run into the limits of the slot.

Secure the bobbin to the bracket with the screw [7] and the whasher [5].

## ELECTRICAL CONNECTIONS ( page 10 )

Remove the screws [1] , cover [2] and gasket [3] and put it on a clean surface.

Make electrical connections.

Tighten the passcable.

Pay attention that gasket and surfaces are clean.

Close the cover with the gasket and screws.

The Electric Gate Shop Ltd strongly recommend, that a semi hardening gel compound is used after the electrical connections have been made to completely fill the connection chamber.

Gel sachets are available at the point of ordering your Sub180 gate system from us at, <http://www.theelectricgateshop.co.uk/Product-1392/>

