

119G3120EN

SWING GATE
TURNSTILE

SERIES
SALOON



INSTALLATION MANUAL

PSEPOS00-PSEPSS00



WARNING!

Important instructions for the safety of people:

READ CAREFULLY!



Foreword

• Use of the products must be restricted to its intended use (i.e. that for which it was expressly built for). Any other use is to be considered dangerous. Came Cancelli Automatici S.p.A. is not liable for any damage resulting from improper, wrongful or unreasonable use • Keep these warnings with the installation and use manuals issued with the automated system.

Before installing

(preliminary check: in case of a negative outcome, do not proceed before having complied with the safety obligations)

• Make sure that the parts you intend to automate are in good working order, and that they are properly balanced and aligned. Also, make sure that proper mechanical stops are already in place • If the operator will be installed at a height of less than 2.5 m from the ground or other access level, check whether you will need any protections and/or warnings • Any gate leaves, fitted with pedestrian entrances, onto which you will install an operator, must have a blocking mechanism when the gate is in motion • Make sure that the opening of the automated gate is not an entrapment hazard as regards any surrounding fixed parts • Do not mount the operator upside down or onto any elements that may fold under its weight. If needed, add suitable reinforcements at the points where it is secured • Do not install onto gates on either an upward or downward slope (i.e. that are not on flat, level ground) • Check that any lawn watering devices will not wet the gearmotor from the bottom up.

Installation

• Carefully section off the entire site to prevent unauthorised access, especially by minors and children • Be careful when handling operators that weigh more than 20 Kg (see installation manual). In such cases, employ proper weight handling safety equipment • All opening commands (e.g. buttons, key selectors, magnetic detectors, etc.) must be installed at least 1.85 m from the gate's area of operation perimeter - or where they cannot be reached from the outside of the gate. Also, the direct commands (e.g. push button, or proximity devices, etc.) must be installed at a height of at least 1.5 m and must not be accessible to the public • All 'maintained action' commands, must be placed where the moving gate leaves, transit areas and driveways are completely visible • If missing, apply a permanent label that shows the position of the release mechanism • Before delivering to the client, verify that the system is EN 12453 (impact test) standard compliant. Make sure that the operator has been properly adjusted and that the safety and protection devices, as well as the manual release

are working properly • Where necessary and in plain sight, apply the Warning Signs (e.g. gate plate).

Special instructions and advice for users

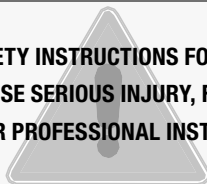
• Keep the gate's area of operation clean and clear of any obstacles. Trim any vegetation that may interfere with the photocells • Do not allow children to play with the fixed command devices, or in the gate's area of operation. Keep any remote control devices (i.e. transmitters) away from the children as well • Frequently check the system, to see whether any anomalies or signs of wear and tear appear on the moving parts, on the component parts, on the securing points, on the cables and any accessible connections. Keep any joints (i.e. hinges) lubricated and clean, and do the same where friction may occur (i.e. slide rails) • Perform functional tests on photocells and sensitive edges, every six months. Keep glass panels constantly clean (use a slightly water-moistened cloth; do not use solvents or any other chemical products) • If the system requires repairs or modifications, release the operator and do not use it until safety conditions have been restored • Cut off the power supply before releasing the operator for manual openings. See instructions • Users are FORBIDDEN to carry out ANY ACTIONS THAT THEY HAVE NOT BEEN EXPRESSLY ASKED TO DO OR SO INDICATED in the manuals. Any repairs, modifications to the settings and extraordinary maintenance MUST BE DONE BY THE TECHNICAL ASSISTANCE STAFF • On the periodic maintenance log, note down the checks you have done.

Special instructions and advice for all

• Avoid working near the hinges or moving mechanical parts • Stay clear of the gate's area of operation when in motion • Do not resist the direction of movement of the gate; this may present a safety hazard • At all times be extremely careful about dangerous points that must be indicated by proper pictograms and/or black and yellow stripes • When using a selector or command in 'maintained action' mode, keep checking that there are no people in the area of operation of the moving parts. Do this until you release the command • The gate may move at any time without warning • Always cut the power when cleaning performing maintenance.

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IMPORTANT SAFETY INSTRUCTIONS FOR INSTALLATION
WARNING: WRONG INSTALLATION MAY CAUSE SERIOUS INJURY, FOLLOW ALL INSTALLATION INSTRUCTIONS
THIS MANUAL IS EXCLUSIVELY MEANT FOR PROFESSIONAL INSTALLERS OR OTHER COMPETENT PERSONS



1 Legend of symbols

 This symbol shows parts to be read carefully.

 This symbol shows parts related to safety.

 This symbol shows what to tell users.

2 Conditions of use

2.1 Intended use

The SALOON motorised swing gate turnstile is designed for use in facilities with high volume flows such as shopping malls, supermarkets, fitness and wellness centres, swimming pools and any other facilities where high volume flows need to be restricted and selected.

 Any installation or use other than that shown in this manual is prohibited.

3 Reference Standards

The product being described herein complies with the following legislation: see compliance statement.

4 Description

4.1 Turnstile

This product is designed and built by CAME Cancelli Automatici S.p.A. in compliance with the current safety legislation.

Bidirectional, motorised swing gate, made entirely of varnished AISI 304 Inox steel with removable upper cover to access the command logic and a small door with lock to access where it is secured to the ground. The gate wing is made of AISI 304 Inox steel with a polycarbonate panel.

It allows transit in either direction. It is activated by a signal received by the card reader, by the photocells and by another device, and in turn activates the gearmotor to turn in the respective direction. The wing rotates 90° at a preset speed.

When the wing is open, the command logic waits for person to pass through opening for a preset time; after this time it closes. The command logic works with photocells, which detect passing persons and closes the wing before the waiting time

It is fitted with an anti panic device, so if a non authorised user pushes it harder than 8 N the it rotates and sounds the alarm.

The complete range:

PSEP0S00 24V D.C. varnished steel motorised, bidirectional swing-leaf gate complete with electronic board and push-to-open antipanic system.

PSEPSS0024V D.C. AISI 304 stainless steel motorised, bidirectional swing-leaf gate complete with electronic board and push-to-open antipanic system.

4.2 Technical date

Power: 230V A.C. 50/60 Hz

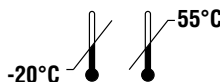
Motor power: 24V D.C. 50/60 Hz

Power draw: 2.5A

Insulation class: II

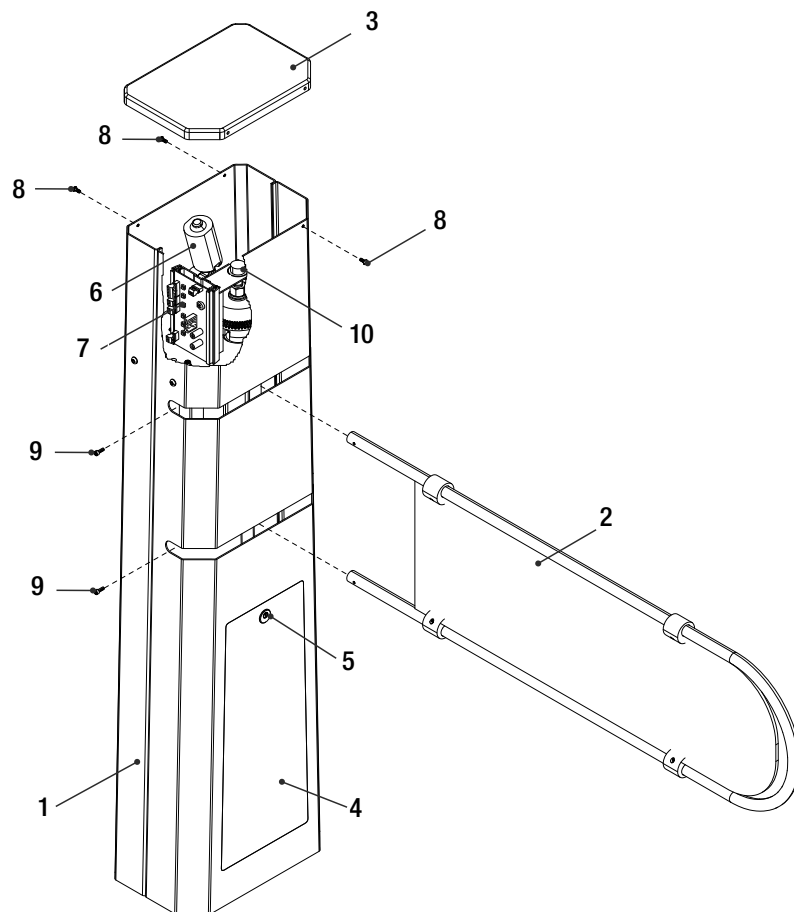
Protection rating: IP44

Weight: 30 Kg



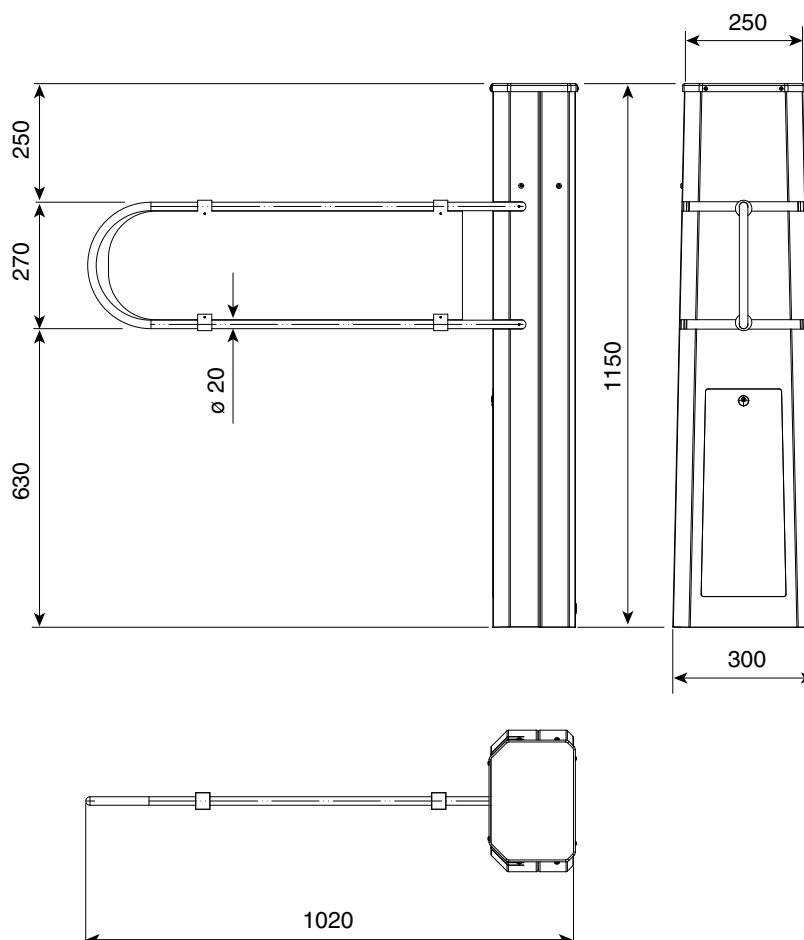
4.3 Description of parts

1. Cabinet
2. Wing
3. Top cover
4. Lid
5. Lock
6. Gearmotor
7. Command board
8. Cover screw
9. Wing screw
10. Thrust meter



4.4 Dimensions

(mm)

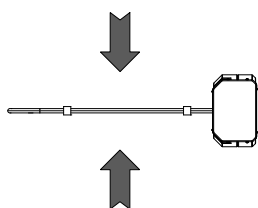


5 Typical applications

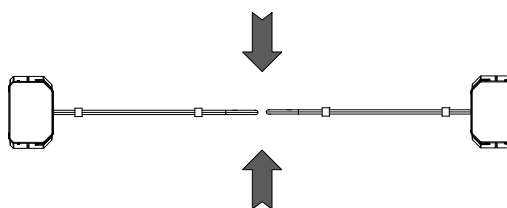
Warning: always have an emergency exit and a disabled persons exit.

ENGLISH

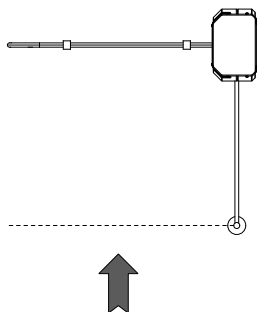
Standard



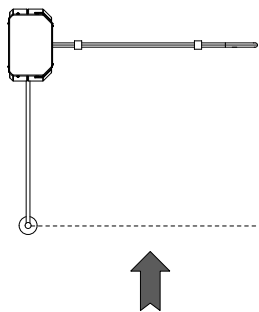
Double wing gate turnstile



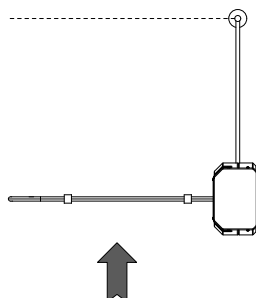
Sensor activated automatic opening with timed closing, right-hand column



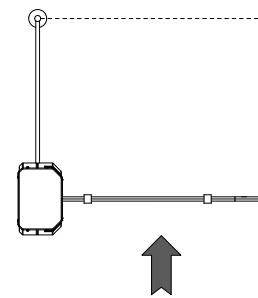
Sensor activated automatic opening with timed closing, left-hand column



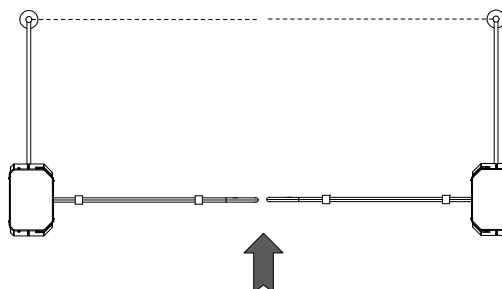
Command activated automatic opening with sensor activated closing, right-hand column



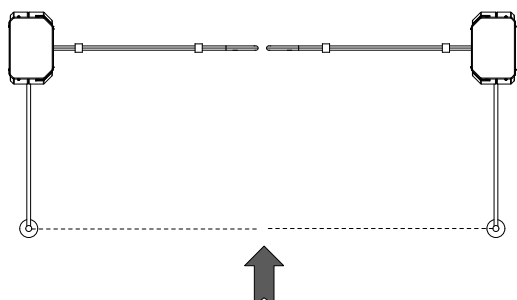
Command activated automatic opening with sensor activated closing, left-hand column



Command activated automatic opening with sensor activated closing, double wing turnstile



Sensor activated timed opening, double wing turnstile



6 Installation

⚠ Only skilled, qualified staff must perform the installation, in full compliance of the current legislation.

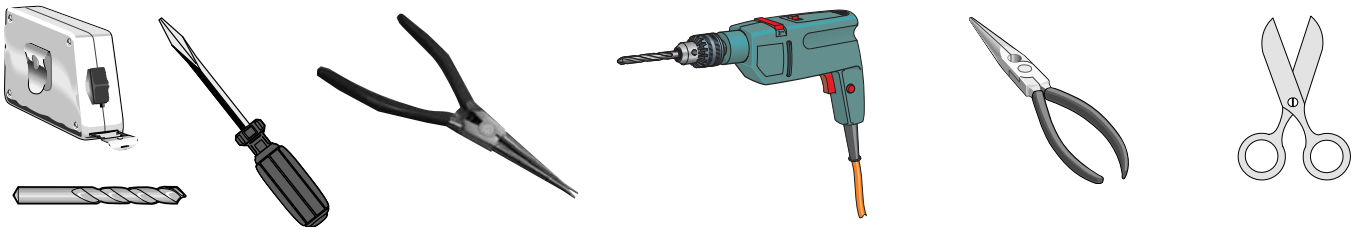
6.1 Preliminary checks

⚠ Before installing the automated device, please

- Set up a proper omnipolar cut-off device, with contacts more than 3 mm apart, and power source isolation;
- Set up proper tubing and conduits for the electrical cables to go through with enough protection from any mechanical damage;
-  Check that any connections within the container (made to give continuity to the protection circuit) have additional isolation compared to the other internal power conductors.
- Make sure the passage way is in proper order and slump-free

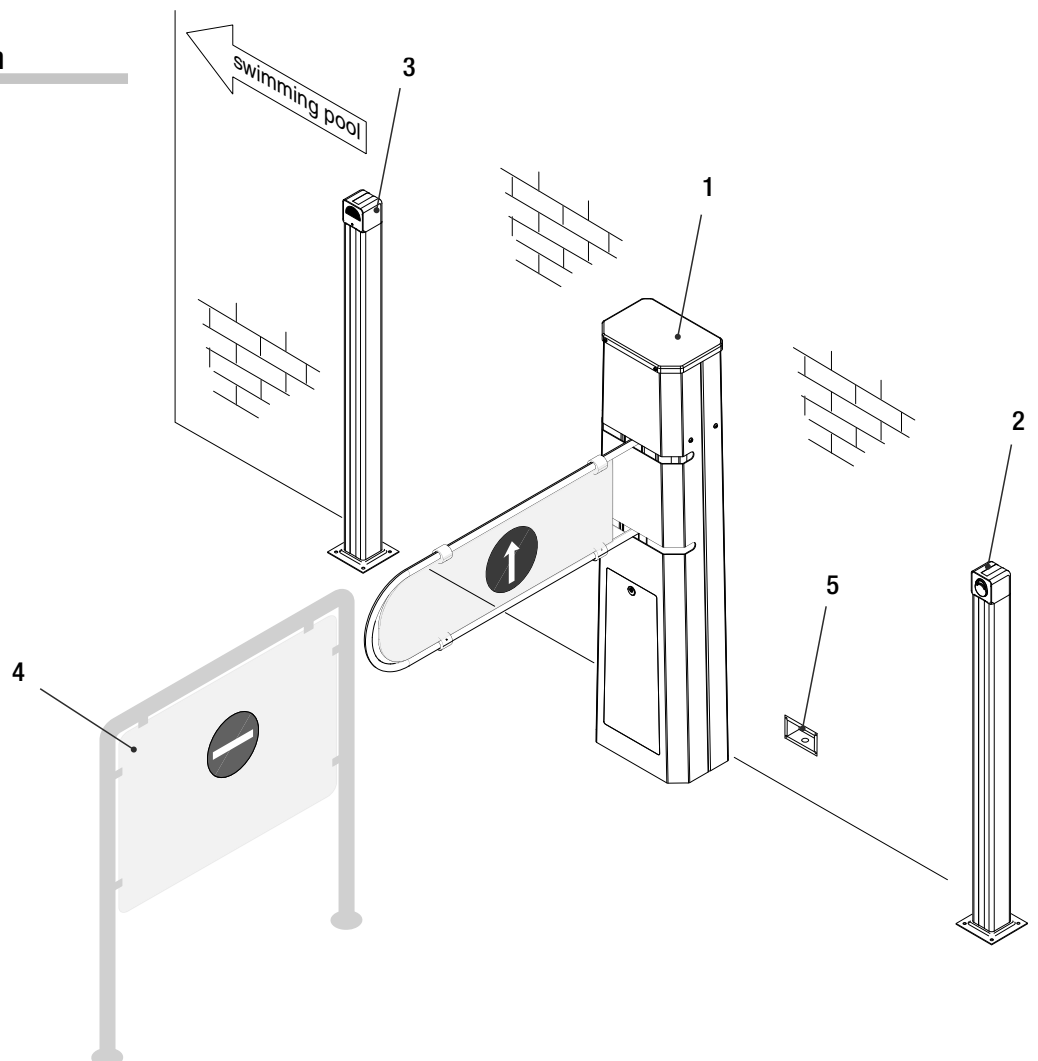
6.2 Tools and equipment

Make sure you have all the tools and materials needed to carry out the installation in total safety and in compliance with current legislation. The figures shows examples of installers' tools.



6.3 Standard installation

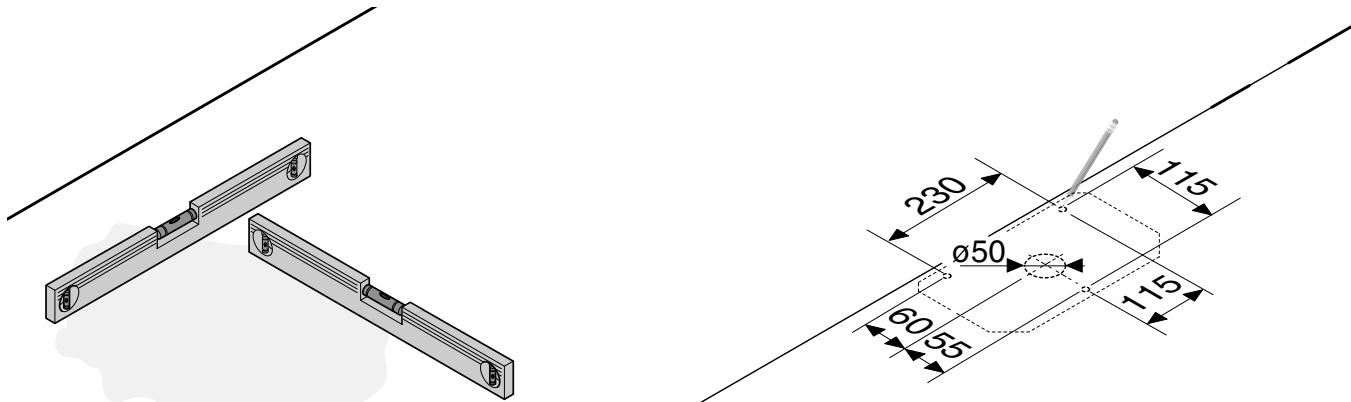
1. Swing wing turnstile
2. Transit access trasponder
3. Closing sensor
4. Protective barrier
5. Junction box



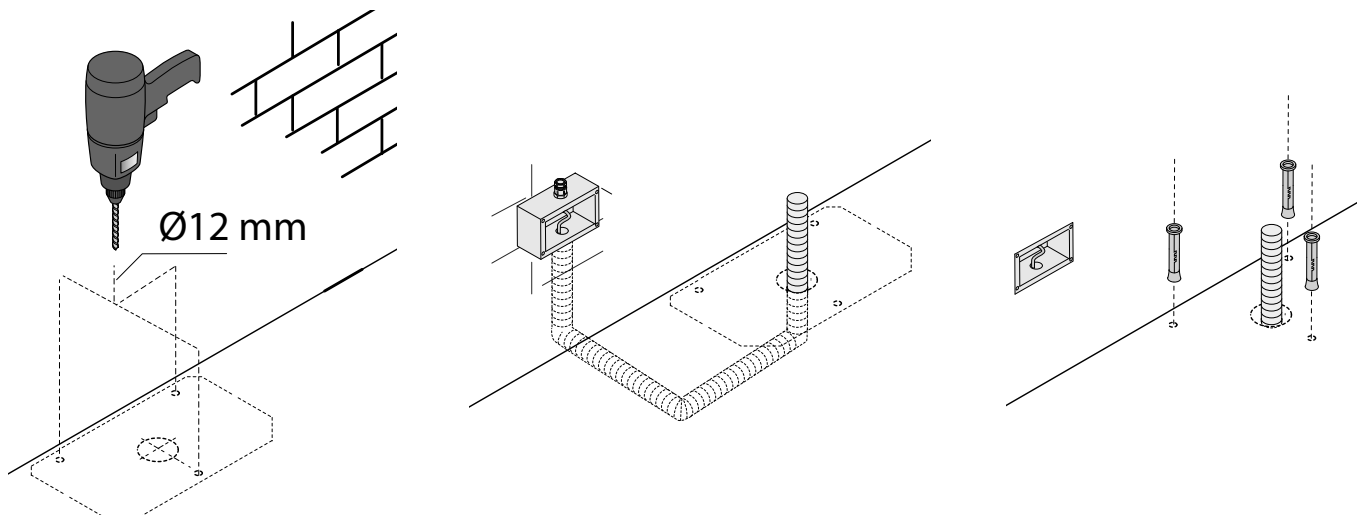
6.4 Setting up the spot and securing the turnstile to the ground

⚠ Warning: to install this at least two or three people are needed. Use hoisting equipment to move and position the turnstile. When securing, the turnstile may be unstable and could tip over, so be careful not to lean onto it until securing is complete.

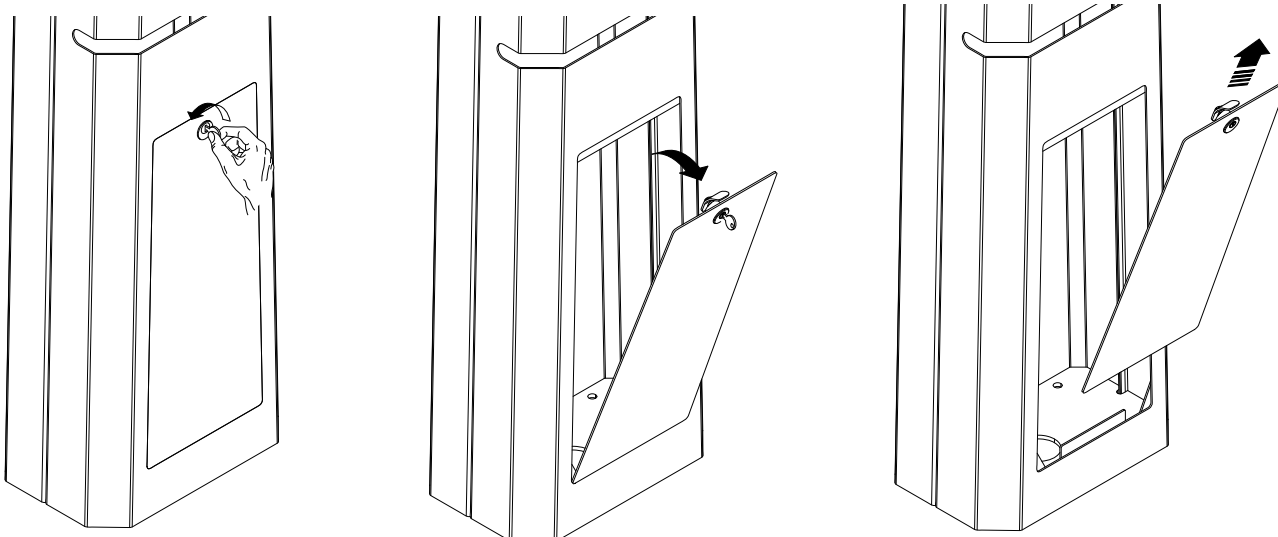
- Depending on the transit opening measurements, choose where to position the turnstile and any accessories. Mark with a pencil the anchoring holes as shown in the picture.



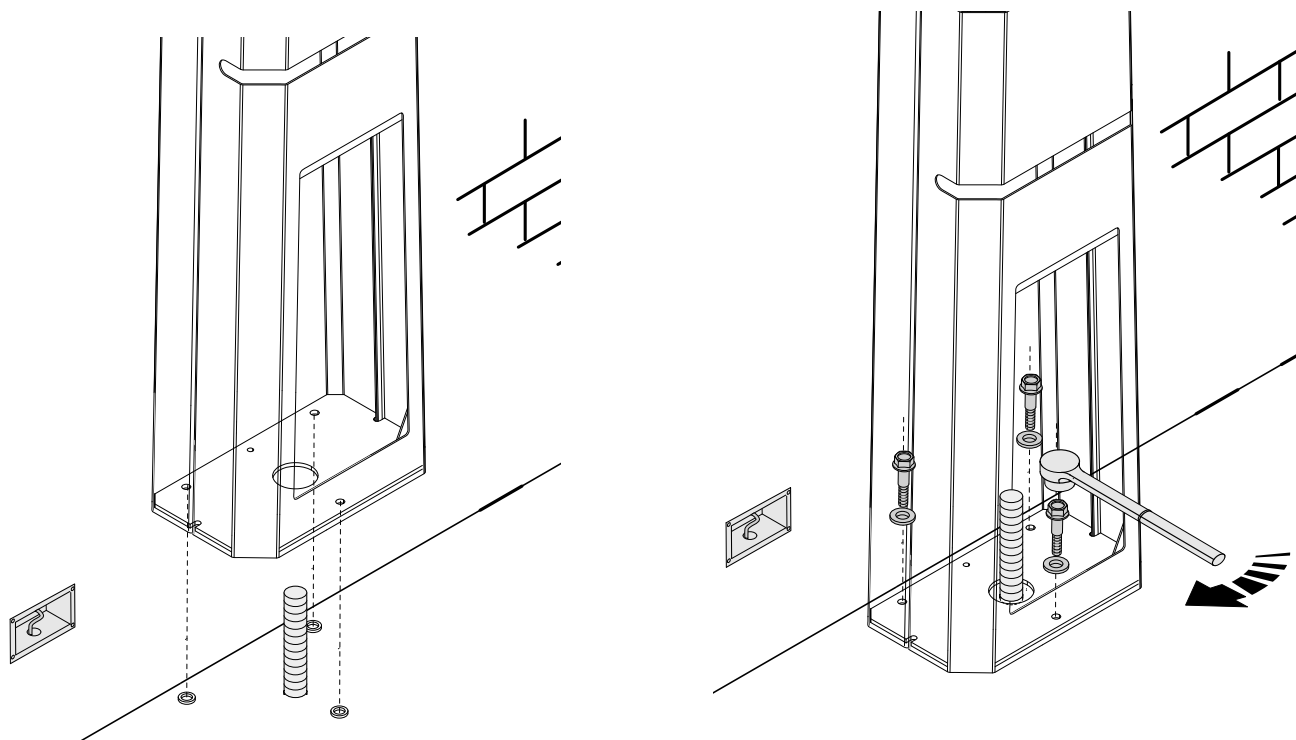
- Drill the holes where marked.
Set up conduits for passing cables through near where the turnstile will be anchored.
Insert the gussets into the holes.



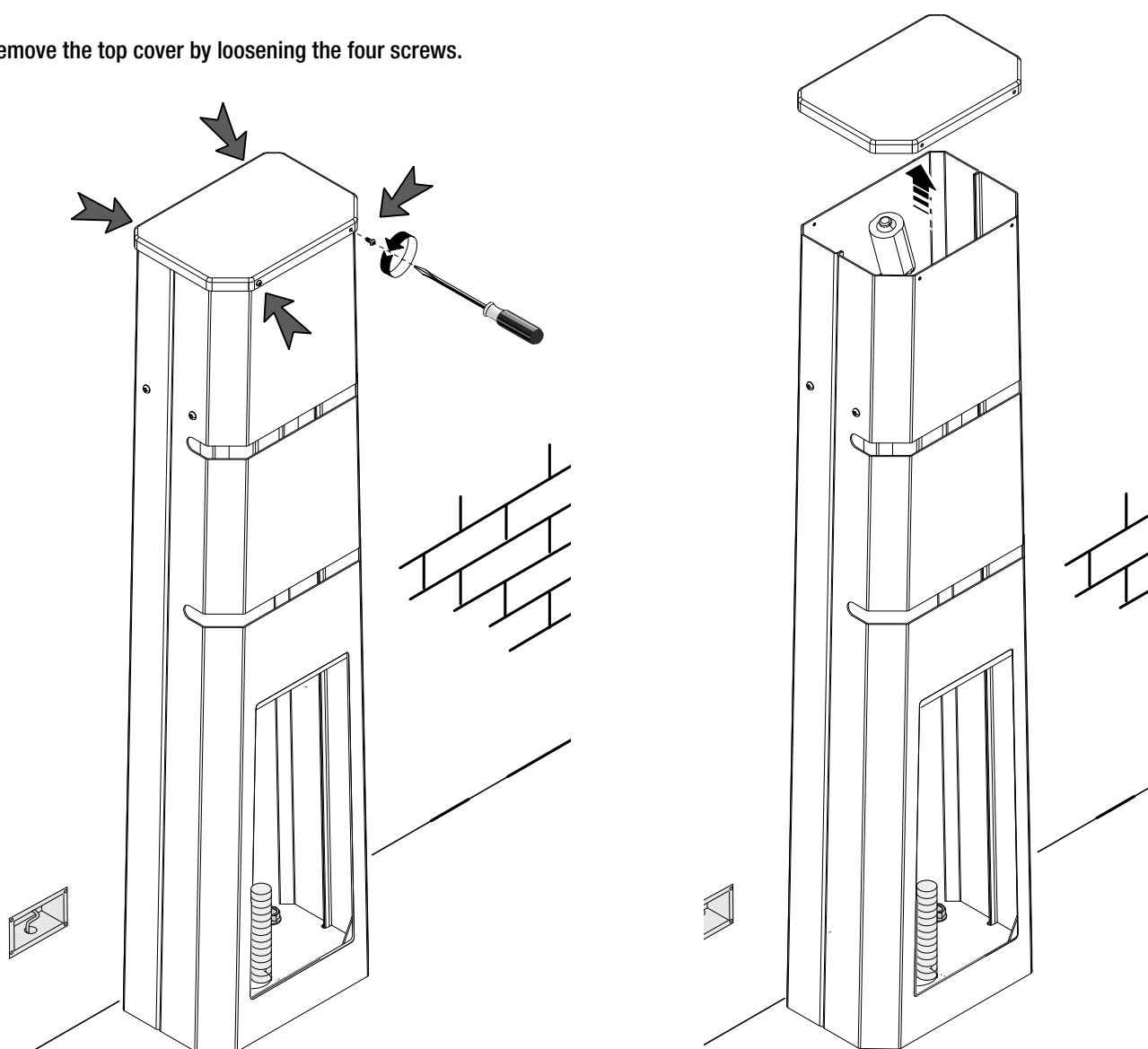
- Insert the key into the lid lock, turn it counterclockwise and remove the lid.



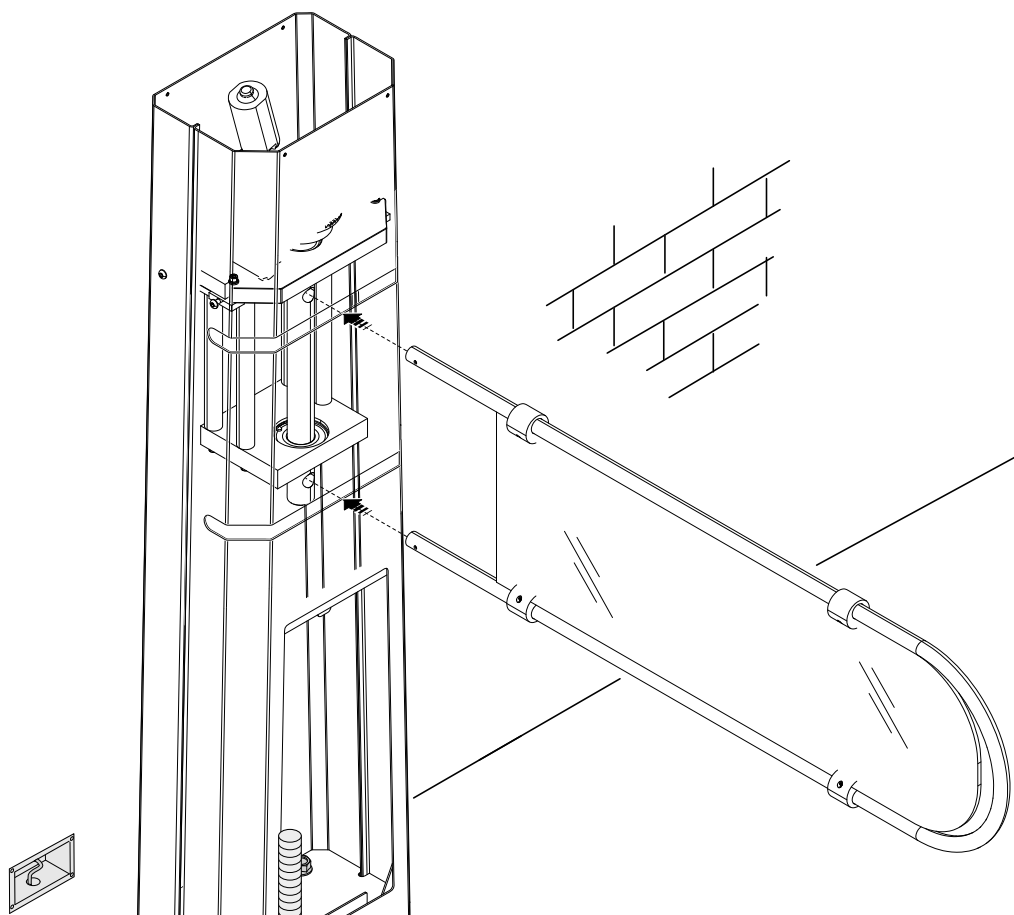
- Position the turnstile along the gussets and run any cable conduits through the central hole. Using a ratching driver, secure the turnstile to the ground.



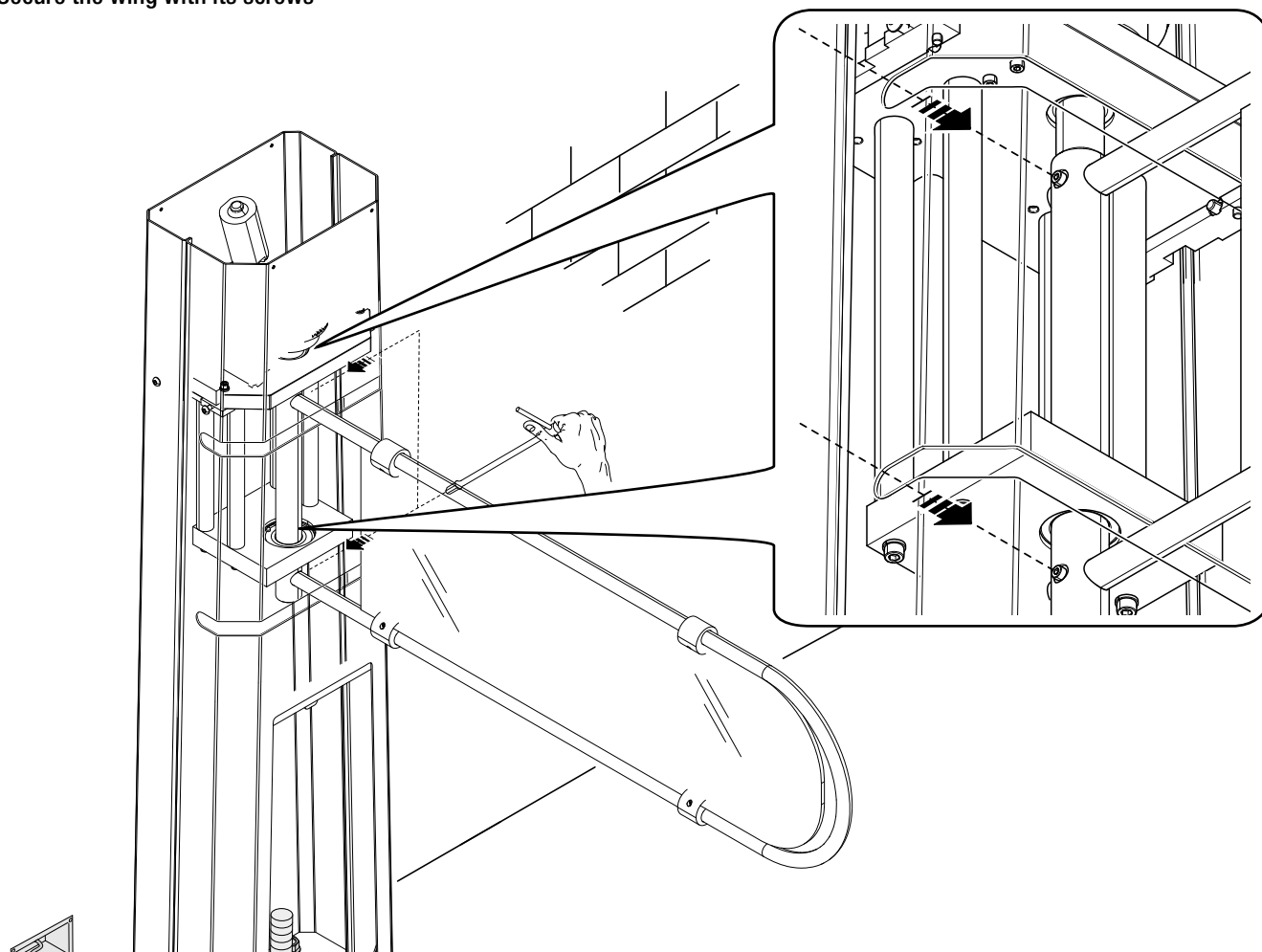
- Remove the top cover by loosening the four screws.



- Insert the wing into holes in the main shaft of the mechanism.



- Secure the wing with its screws

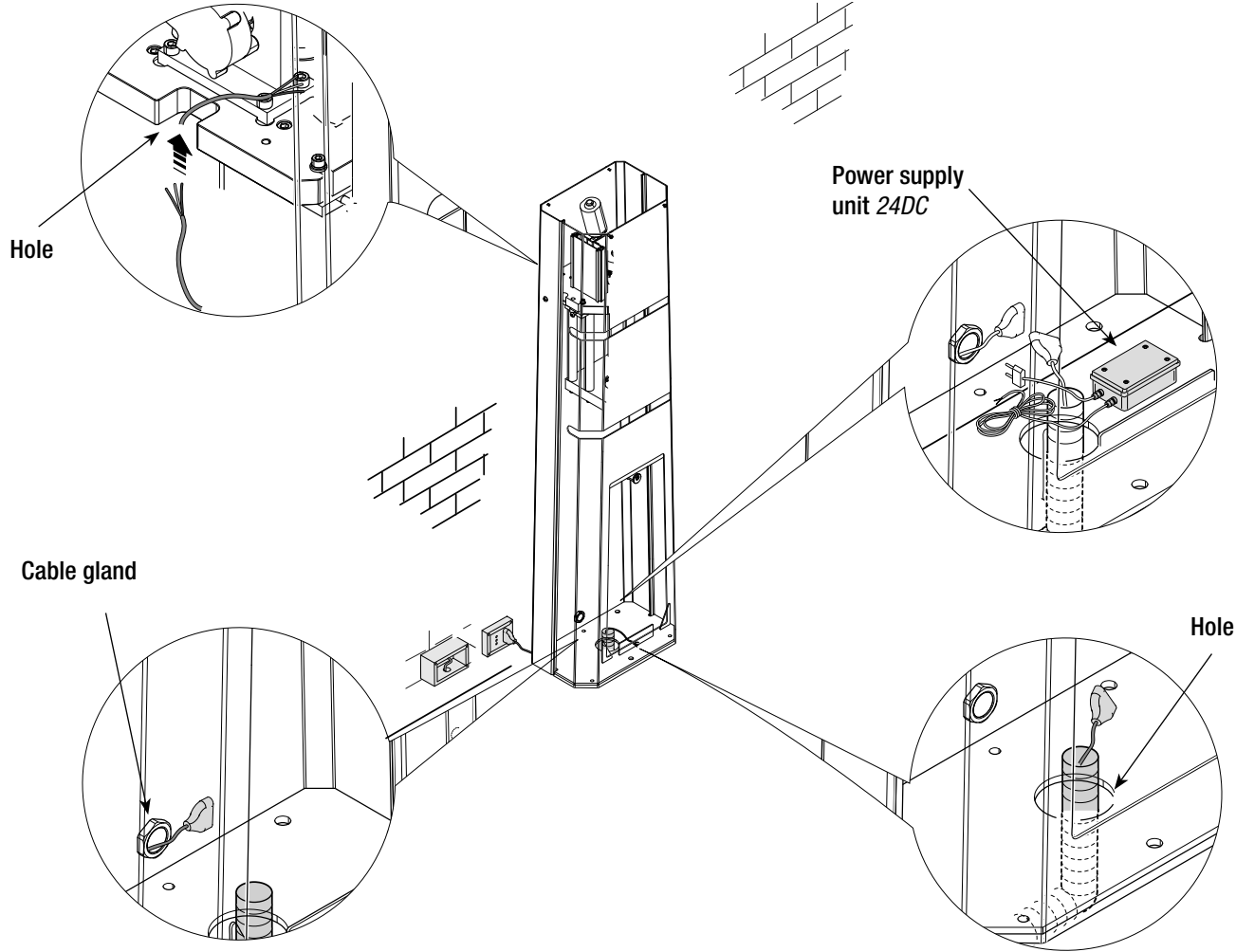


7 Electrical wiring

Distribute the electrical cables (see table “Cable types and sections”) as illustrated in the picture below.

Pre-drilled cable hole on the plate.

Power up the command board via the power supply unit



Running the power cable (alternatively to the plate hole) through a cablegland in the bottom part of the turnstile leg.

Running power cables through any accessories through the plate hole at the bottom of the turnstile leg.

7.1 Cable types and sections

Connections	Cable types	Cable length 1 < 10 m	Cable length 10 < 20 m	Cable length 20 < 30 m
Power to electrical panel 230V	FROR CEI 20-22 CEI EN 50267-2-1	3G x 1,5 mm ²	3G x 1,5 mm ²	3G x 1,5 mm ²
Power to accessories		2 x 0,5 mm ²	2 x 0,5 mm ²	2 x 1 mm ²
Command and safety devices		2 x 0,5 mm ²	2 x 0,5 mm ²	2 x 0,5 mm ²

N.B. If the cable length differs to that shown in the table, determine cable section based on the actual power draw by the connected devices and according to what is prescribed by law CEI EN 60304-1.
For sequential connections on the same line, length-measurements by the table must be converted on the basis of draw and actual distances. To connect any products not mentioned in this manual, see documentation provided with said products.

8 Control panel

8.1 General description

The control panel is powered by 24V D.C. on terminals 1-8, via offboard power supply unit.

The 24V current emitted by the board is of the SELV type.

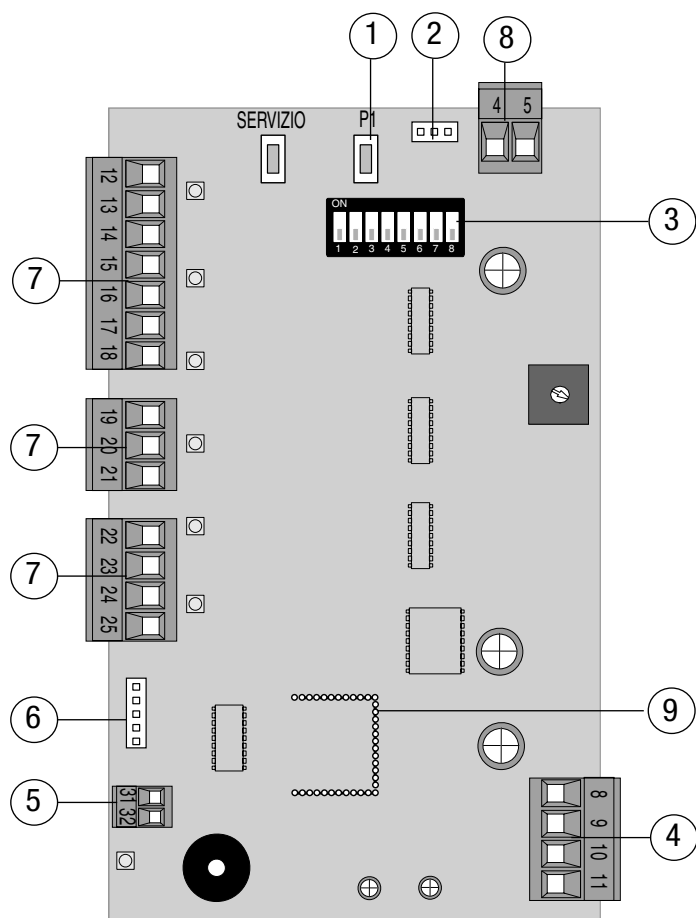
The command and control devices and accessories are 24V D.C.. **Warning!** The accessories must not comprehensively exceed 35W.

The definable command and control functionalities are:

- Clockwise action
- Counter-clockwise action

WARNING: before doing any work inside the equipment, cut off the power mains.

8.2 Main component parts



1 Programming button

2 Power source connectors

3 Dip switches

4 control board power terminals

5 buzzer connector terminals (supplementary)

6 two-way traffic light connectors (optional)

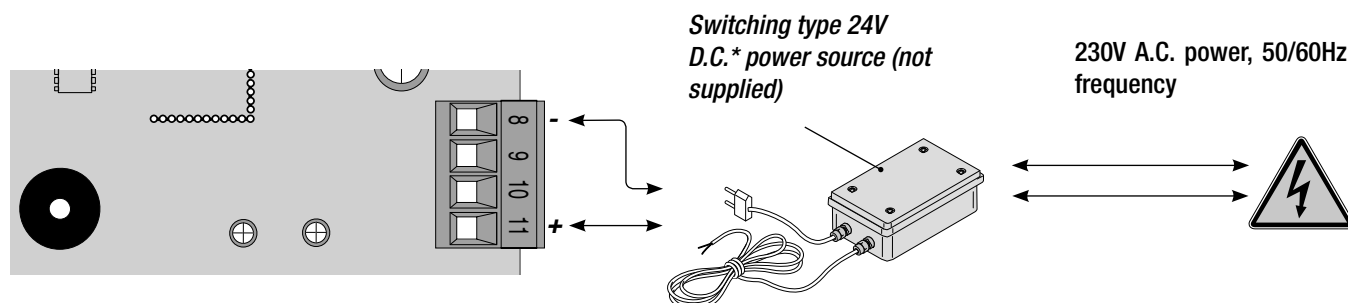
7 Terminals for connecting accessories and command and control systems

8 Gearmotor connector terminals

9 Comms module slot for double entry programming

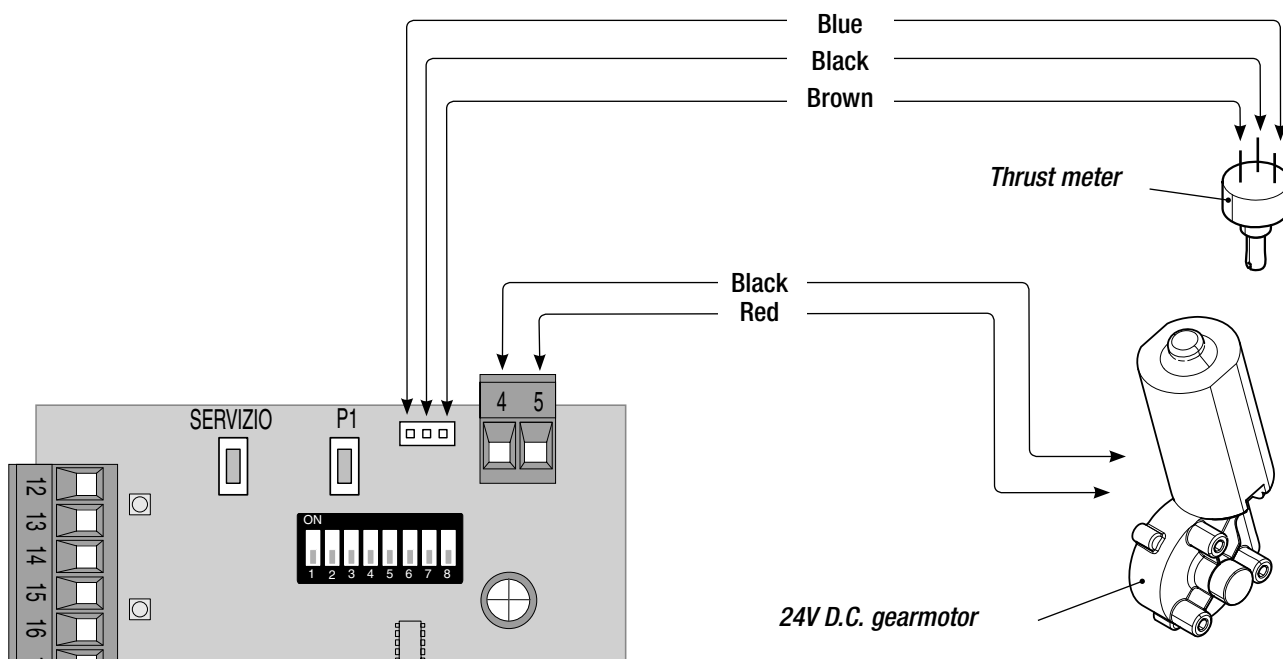
8.3 Electrical connections

Power

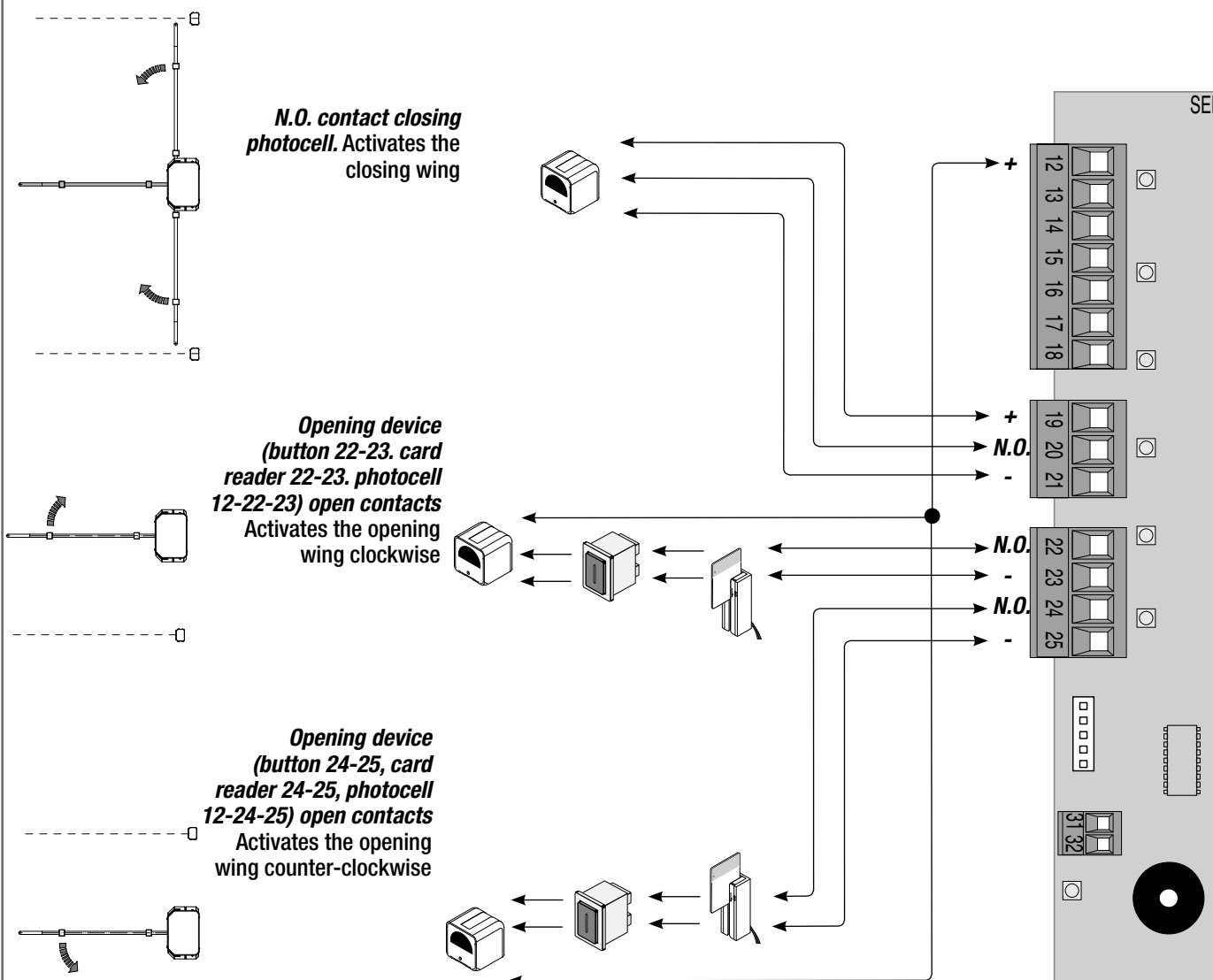


*It's important that you select the right power supply unit depending on the installation type. The range is between 2.5A and 6.5A in terms of draw.

Connecting devices to the control panel



Connecting complementary devices to the command panel



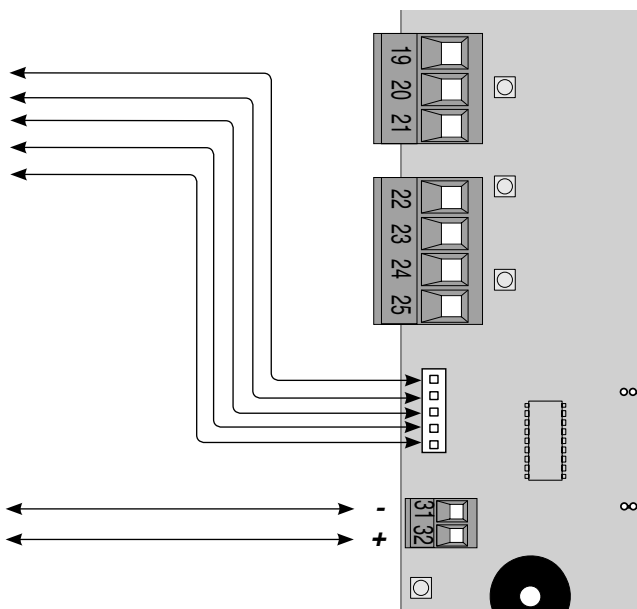
Two-way extra bright LED traffic light



Buzzer

Supplementary buzzer for enhanced acoustic signal

Contact output 12V D.C. – 100mA



8.4 Selecting functions (Dip switches)

« Dips 1, 2 and 3 »

The wing stays open for 3 seconds minimum to allow people passage. If you want to increase this time interval set Dip switches 1, 2 and 3 as shown in the table below:

DIP 1	DIP 2	DIP 3	seconds
OFF	OFF	OFF	3
ON	OFF	OFF	4
OFF	ON	OFF	5
OFF	OFF	ON	7
ON	ON	OFF	6
ON	OFF	ON	8
OFF	ON	ON	9
ON	ON	ON	10

« Dip switch 4 »

Regulates wing behaviour in case of impact.

The board is fitted with an amperometric device which constantly controls the motor thrust.

When the wing runs into an obstacle, the sensor detects the thrust overload and inverts the direction of the wing's travel:

If the Dip switch is ON, the wing inverts its rotation;

If the Dip switch is OFF, the wing stops, once obstacle is removed, it close or remains still unless obstacle is removed within 10 seconds. In this last case, you need to power up the system again.

« Dip switch 5 »

Dip switch ON – activates programming wing-endpoints (see paragraph 10.3).

Dip switch OFF – deactivated

« Dip switch 6 »

Dip switch ON – activates the power substitution procedure (see paragraph 10.4).

Dip switch OFF – deactivated

« Dip switch 7 »

Dip switch ON – the buzzer sounds every the anti impact or anti panic features are activated.

Dip switch OFF – deactivated

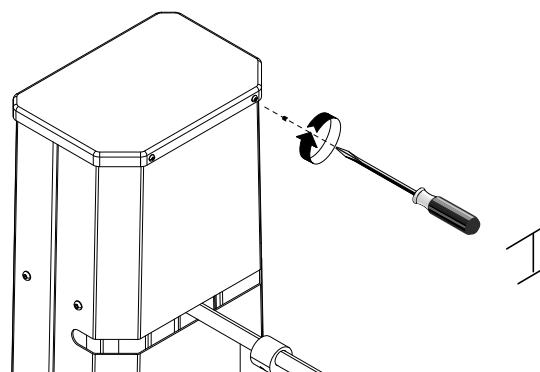
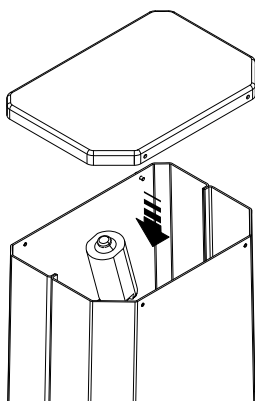
« Dip switch 8 »

Not used

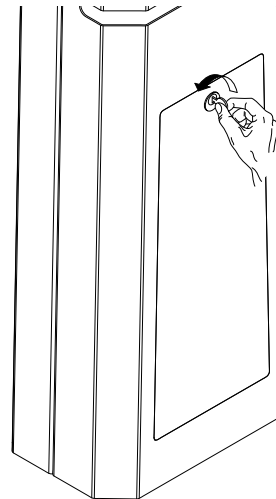
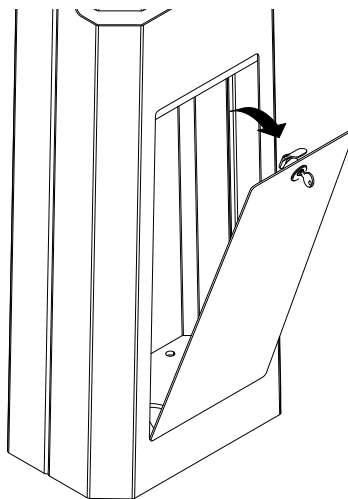
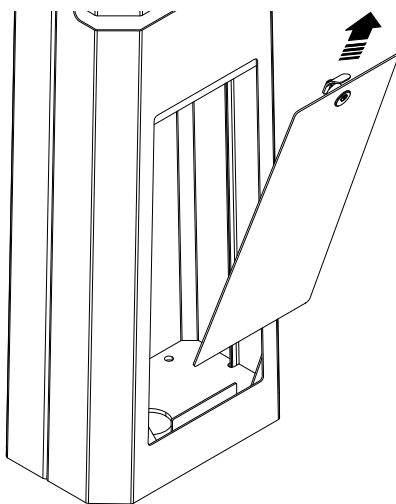
9.4 Securing the cover and lid

⚠ IMPORTANT: before programming, reassemble the turnstile making sure the electric cables do not obstruct the mechanical parts.

1) Position the top cover and tighten the screws.



2) Carefully position the lid and close it.



9 Safety instructions

Important general safety instructions

This product must be only used for its specific intended purpose. Any other use is wrongful and therefore dangerous. The manufacturer is not liable for any harm or damage caused by improper, wrongful or unreasonable use.



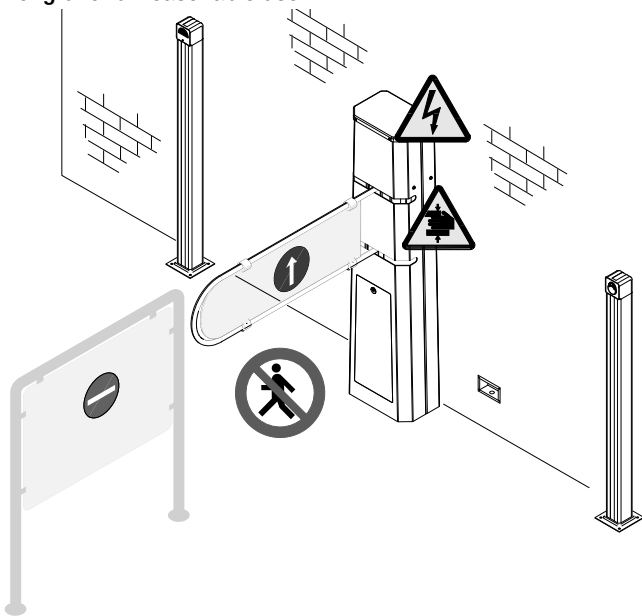
Danger voltage running through parts



Danger Hands could be crushed



Transit prohibited during operation.



Do not allow children to play or loiter in the operating range of the turnstile.
Keep command and control devices out of reach of children, to prevent the turnstile from being accidentally activated.
Immediately suspend use of the turnstile if any anomalies are manifested.

10 Maintenance

10.1 Periodic maintenance



The periodic maintenance checks are the following:
Check turnstile's internal cabling, check that cables are not disconnected or damaged.
Use hands to verify secure grounding of turnstile, if not tightly anchored it could be dangerous.

Do not clean the turnstile with chemical products that may damage the stainless steel, do not use abrasive substances or rags that may scratch the surface.

10.2 Trouble shooting

DISFUNCTIONS	POSSIBLE CAUSES	CHECK AND REMEDIES
The turnstile release only towards one direction	• Buttons 22-23 or 24-25 are pressed down	• Check connections
The turnstile remains locked	• Active STOP button	• Check validity of release command

10.3 Possible reprogramming of the end points

If you need to reprogram the turnstile's end points (e.g. when setting a different opening angle for the wing), follow the procedure described below:

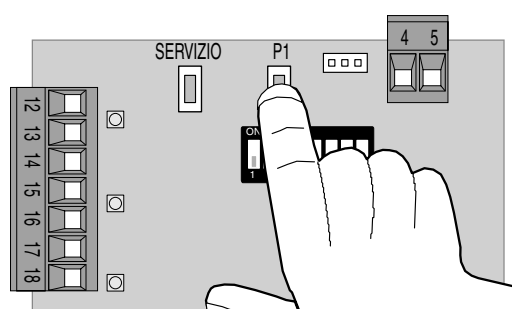
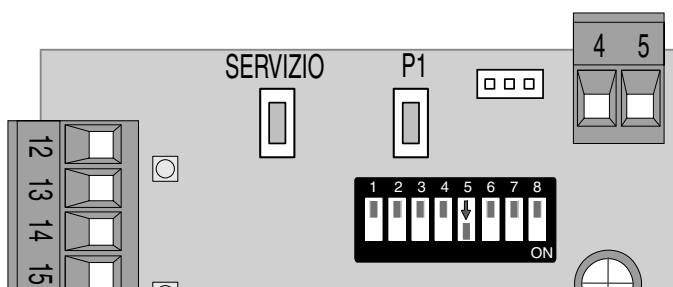


IMPORTANT: before programming, carefully read all instructions and follow them in the order they are presented otherwise you will not be able to program. Each time the P1 button is pressed, a sound should be emitted confirming a command has been received. Wait for this sound signal, before pressing button again.
The programming procedure is finished when you hear a triple beep sound.

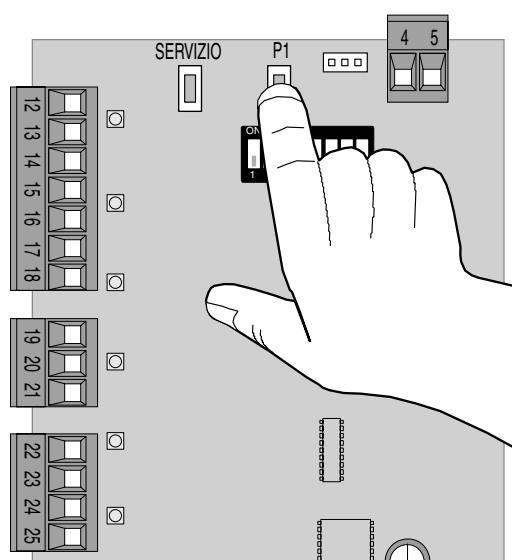
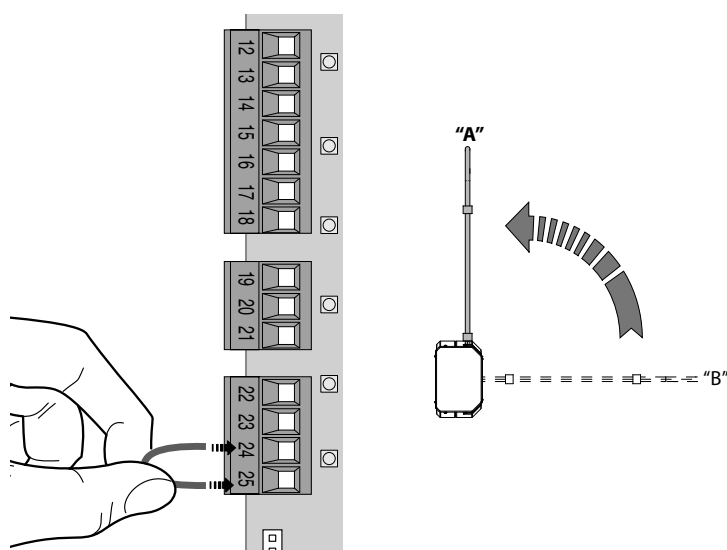
Two-way single-passage endpoint programming procedure

- Set Dip switch 5 to ON.

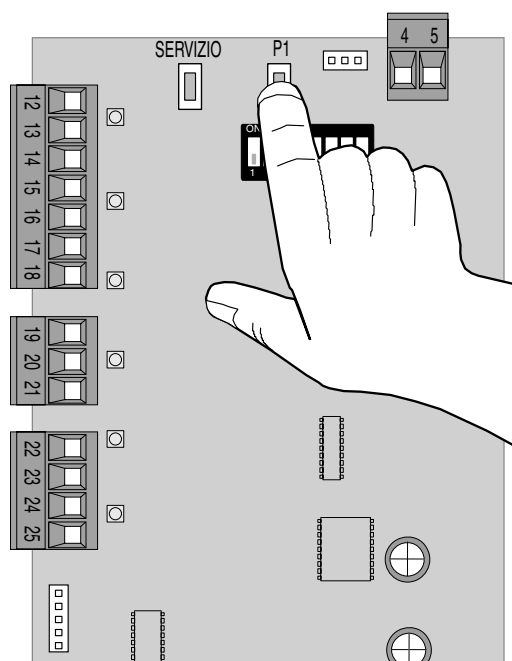
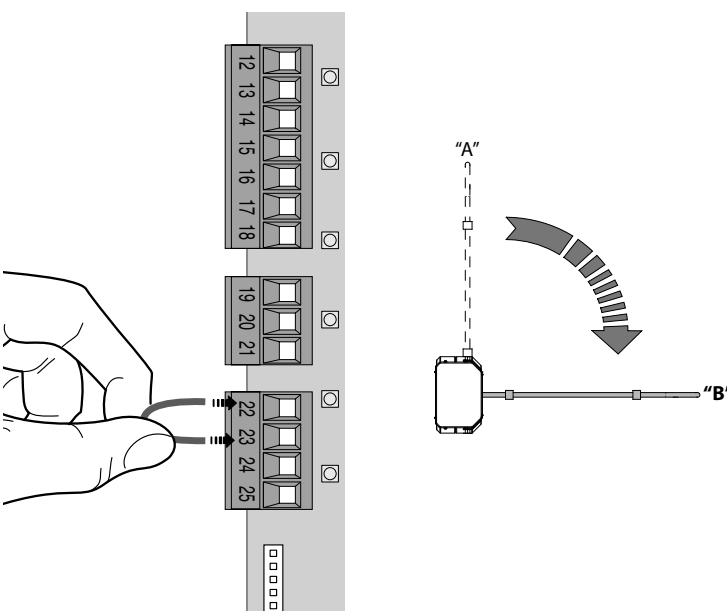
Press P1 button and wait for confirmation beep



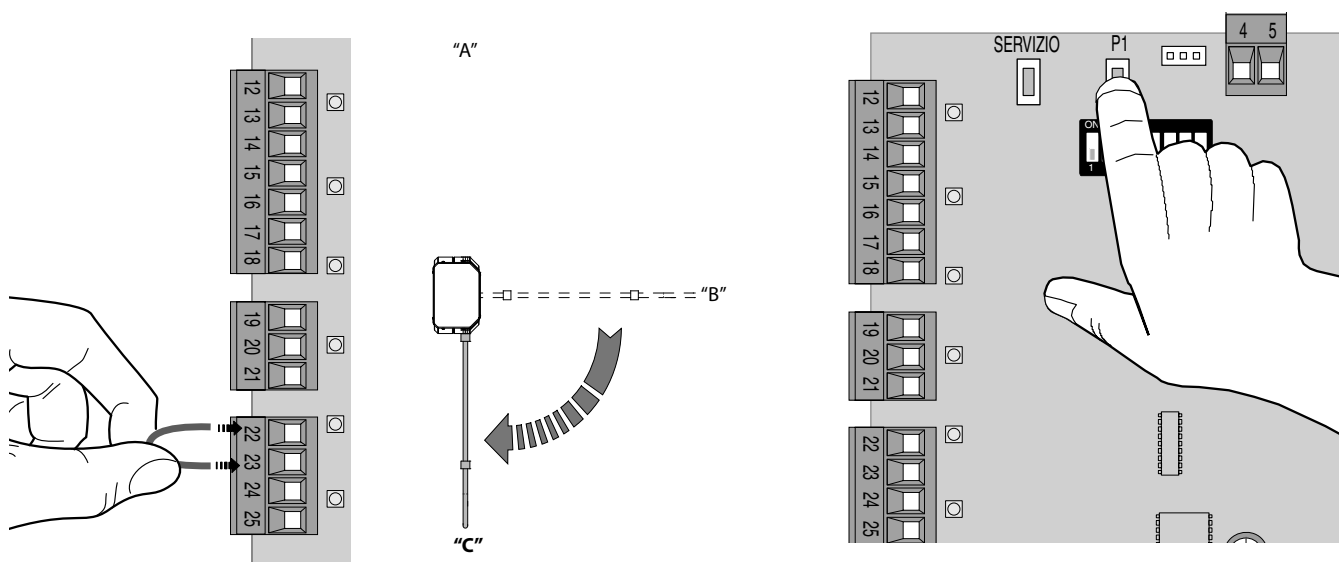
- Shortcircuit terminals 24-25, the wing will move counter clockwise. Keep terminals shorted until chosen endpoint "A" is reached. Press P1 again and wait for confirmation beep.



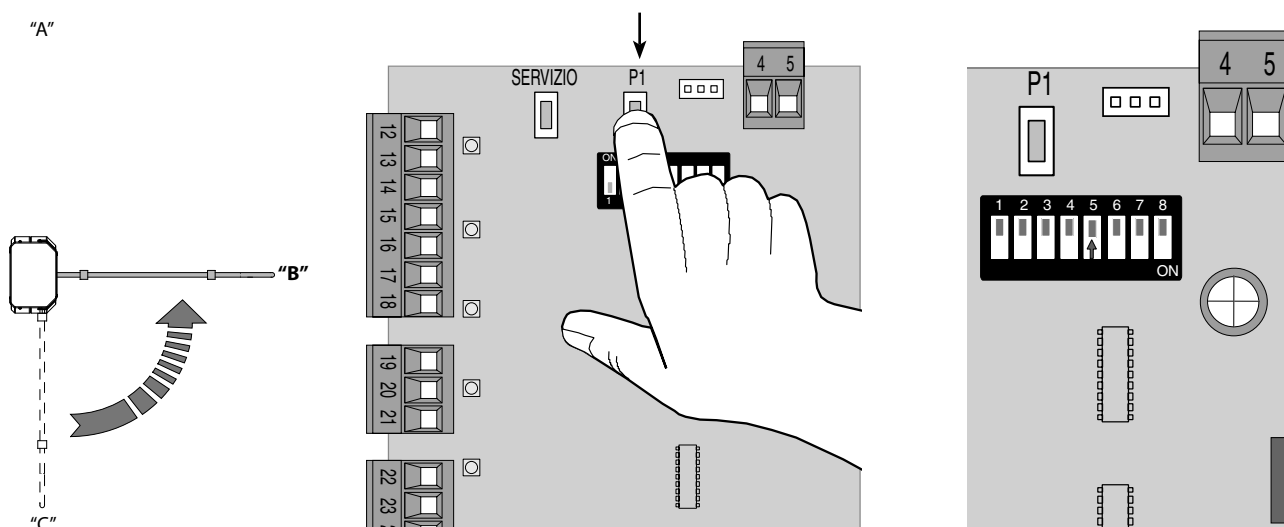
- Shortcircuit terminals 22-23, the wing will move clockwise. Keep terminals shorted until chosen endpoint "B" is reached. Press P1 again and wait for confirmation beep.



- Shortcircuit terminals 22-23, the wing will move clockwise. Keep terminals shorted until chosen endpoint "C" is reached. Press P1 again and wait for confirmation beep.



- The wing goes automatically to point "B". Press the P1 button and wait for 3 consecutive beeps for confirmation. After having pressed for third time, the beep repeats 3 times to confirm programming is finished and successful. Reset Dipswitch to OFF.

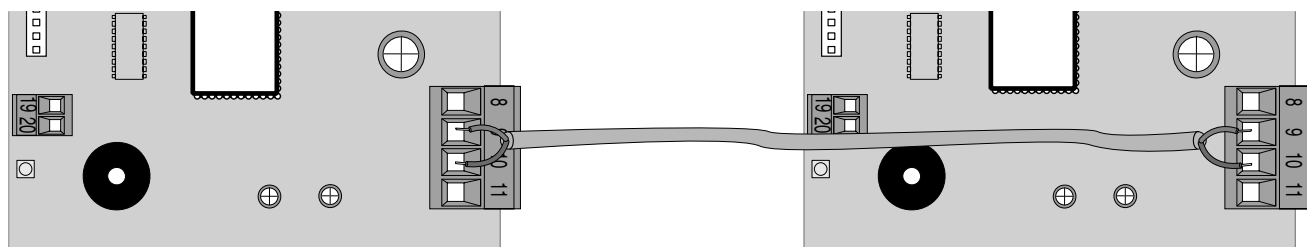


Double passage endpoints programming procedure

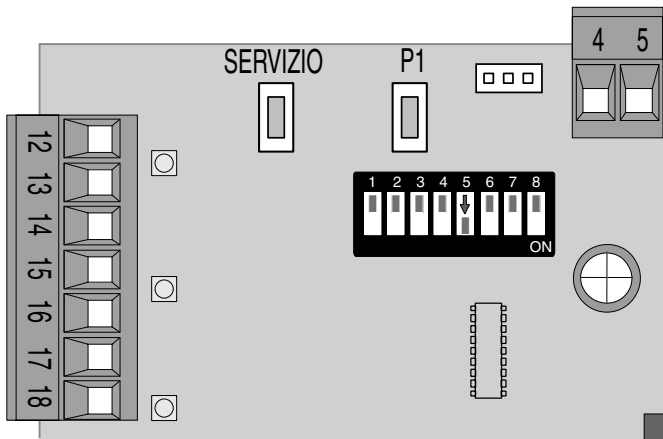
! The turnstiles are marked MASTER and SLAVE on the support plate and the command boards have onboard modules that "talk" to each other. Program only the MASTER command board.



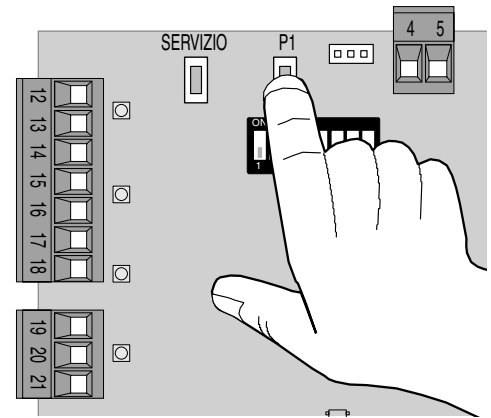
- Connect the two electrical boards via terminals 9-10



- Set Dipswitch 5 to ON.
- Press P1 button and wait for confirmation beep.

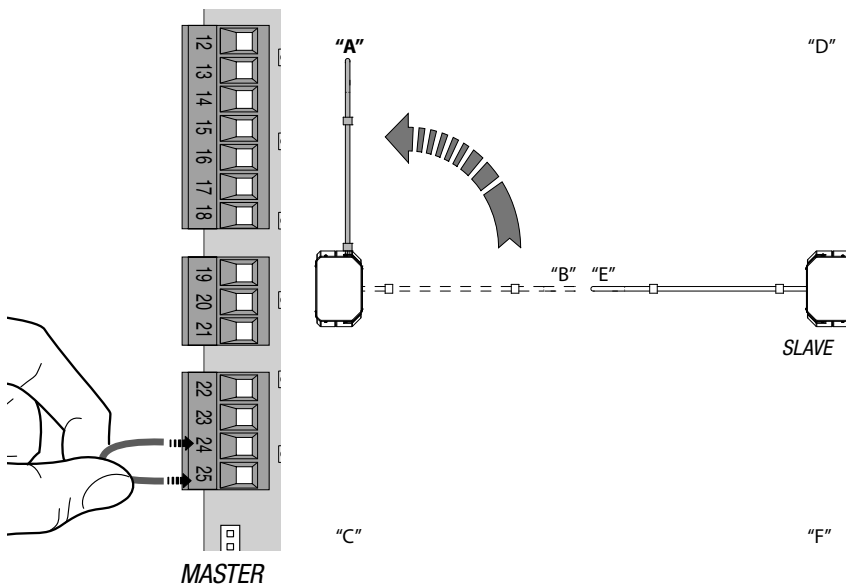


MASTER

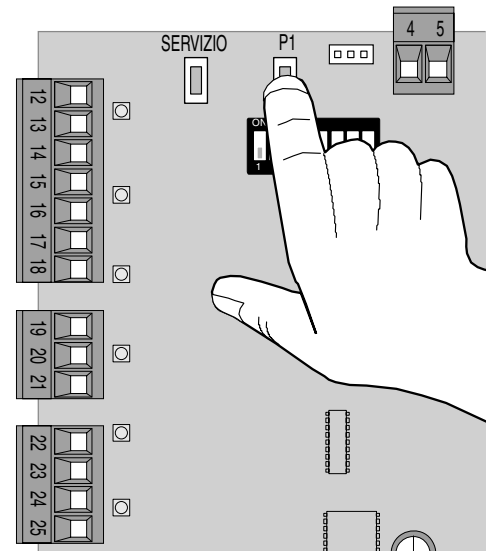


MASTER

- Shortcircuit terminals 24-25, the wing will move counter clockwise. Keep terminals shorted until chosen endpoint "A" is reached. Press P1 again and wait for confirmation beep.

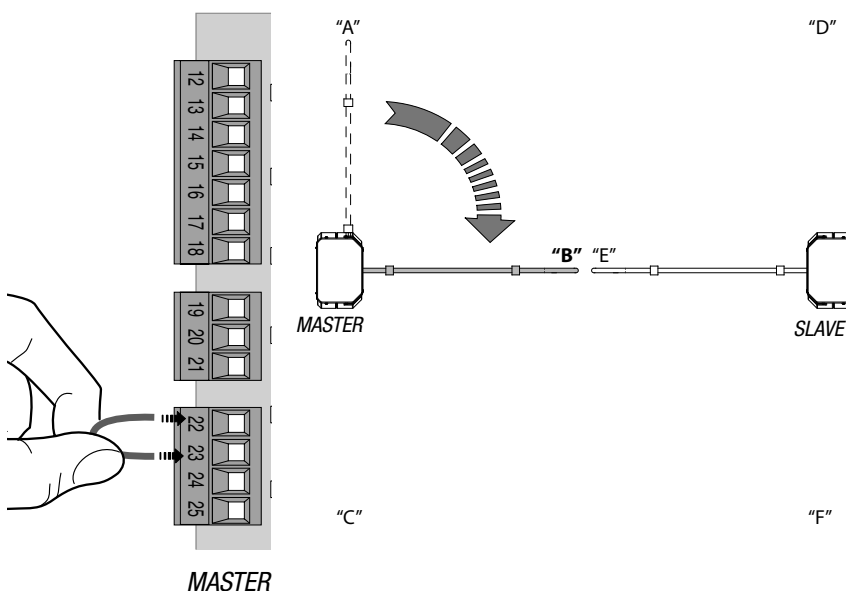


MASTER

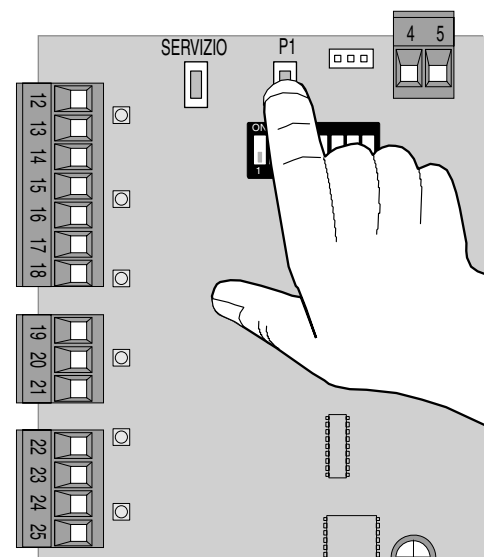


MASTER

- Shortcircuit terminals 22-23, the wing will move clockwise. Bridge terminals until chosen endpoint "B" is reached. Press P1 again and wait for confirmation beep.

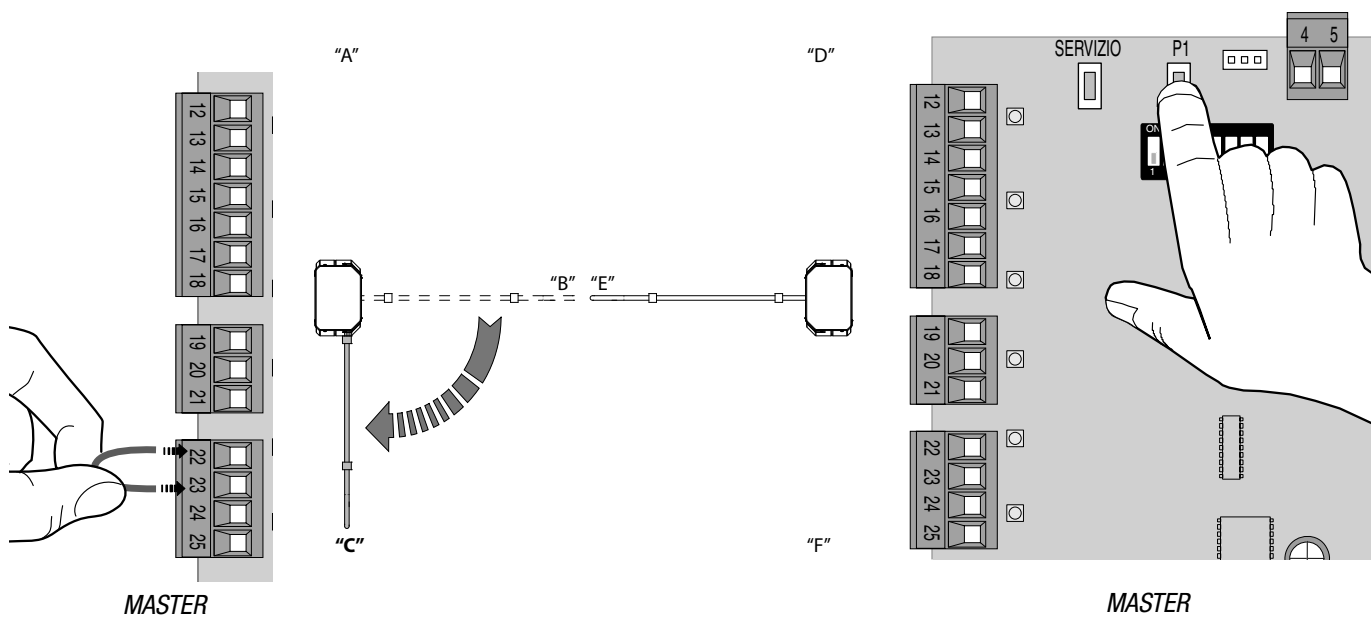


MASTER

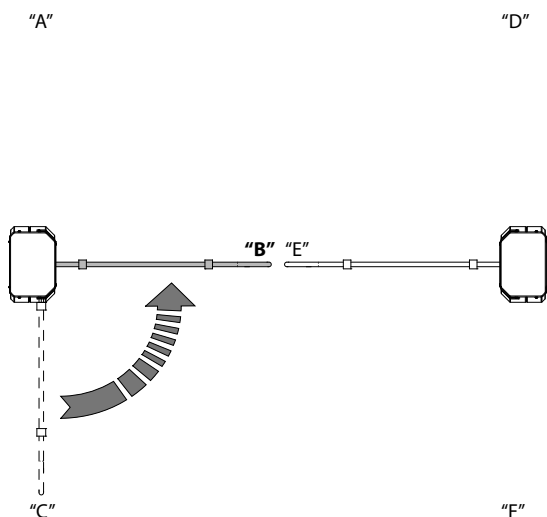


MASTER

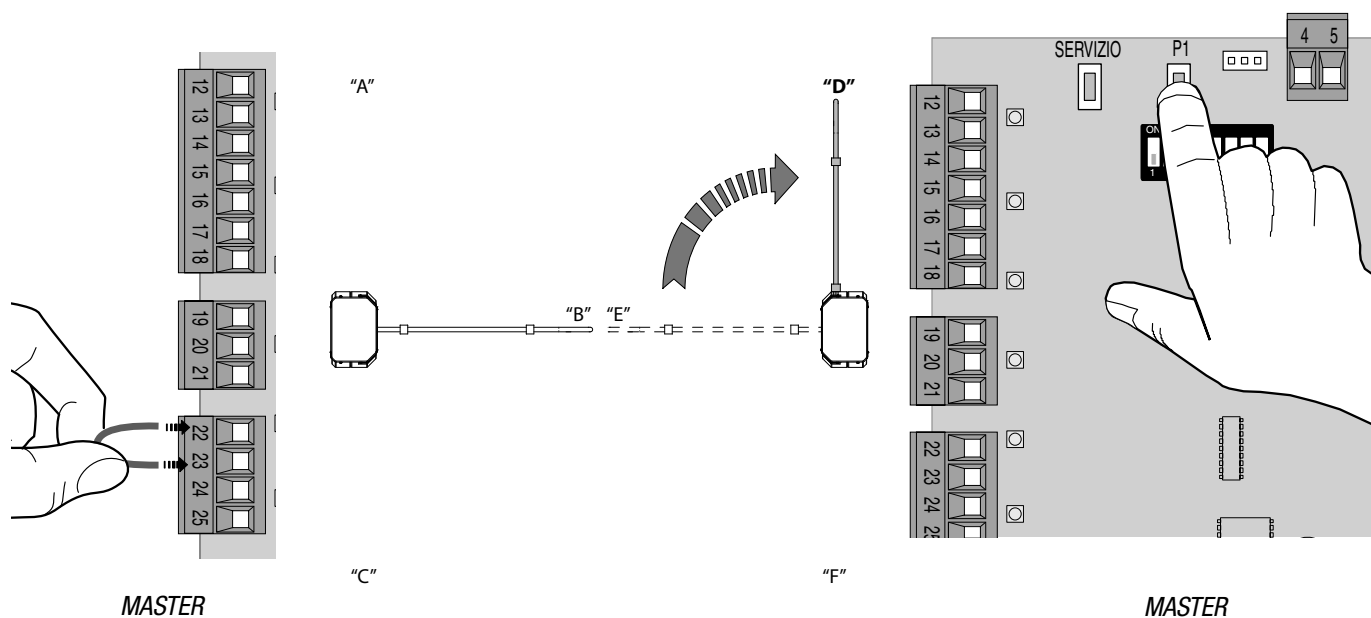
- Shortcircuit terminals 22-23, the wing will move clockwise. Bridge terminals until chosen endpoint "C" is reached. Press P1 again and wait for confirmation beep.



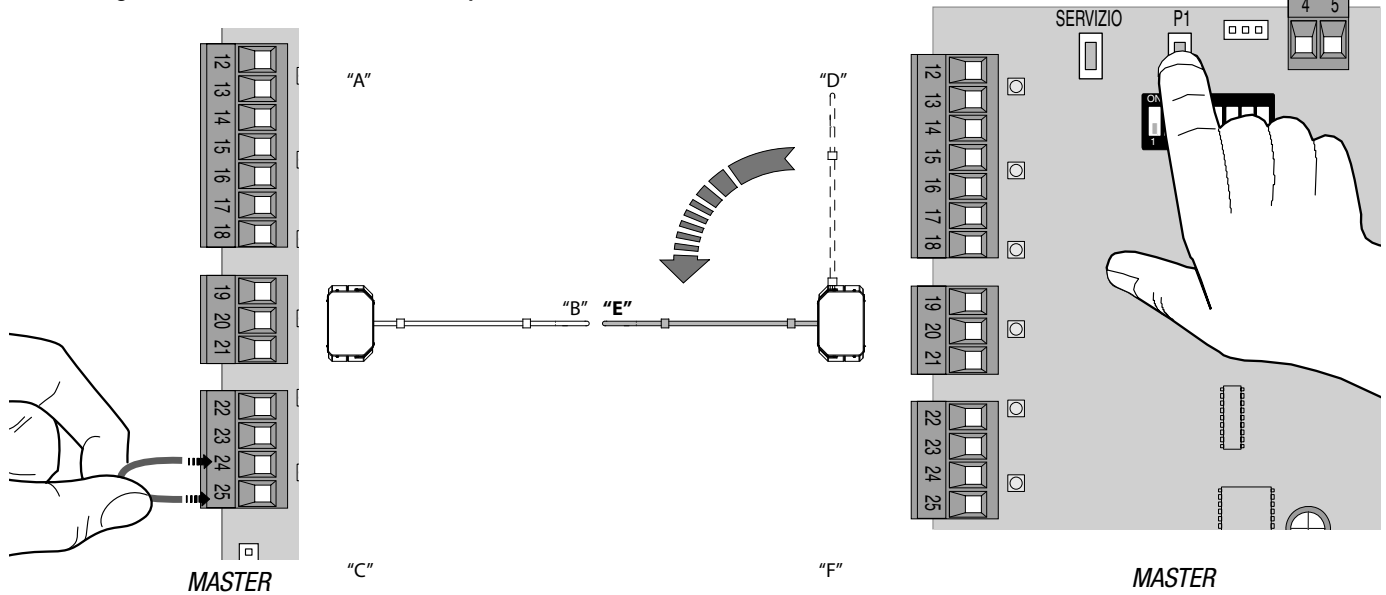
- The wing goes automatically to point "B".



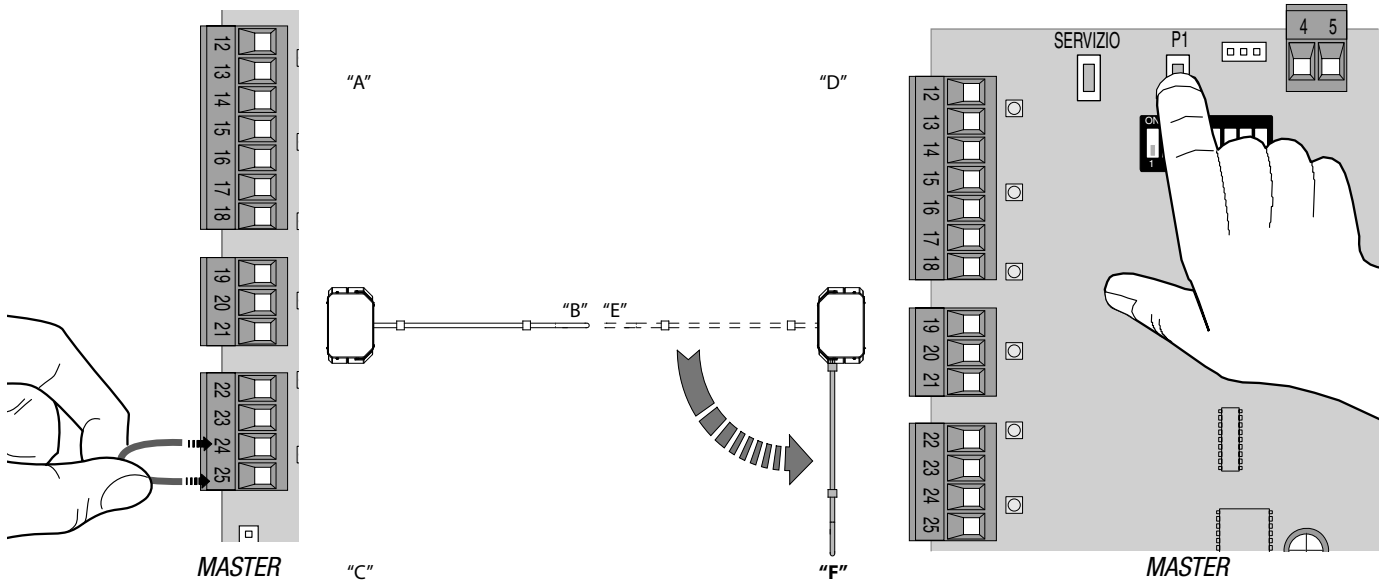
- Shortcircuit terminals 22-23, the wing on the SLAVE will move clockwise. Bridge terminals until chosen endpoint "D" is reached. Press P1 again and wait for confirmation beep.



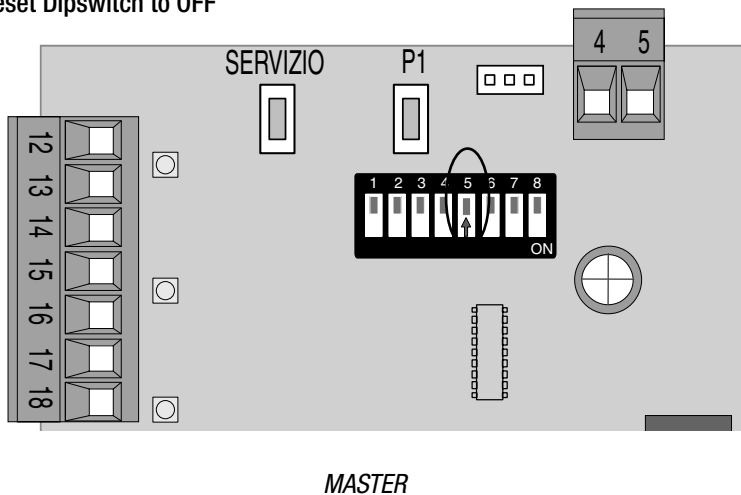
- Shortcircuit terminals 22-23, the wing will move counter clockwise. Bridge terminals until chosen endpoint "E" is reached. Press P1 again and wait for confirmation beep.



- Shortcircuit terminals 22-23, the wing will move counter clockwise. Bridge terminals until chosen endpoint "F" is reached. Press the P1 button and wait for 3 consecutive beeps for confirmation. This confirms programming is finished and successful.



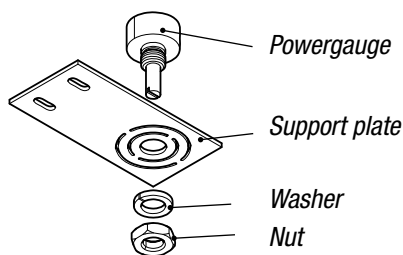
- Reset Dipswitch to OFF



N.B. : upon the first opening comand the wings will go to points "B" and "E"

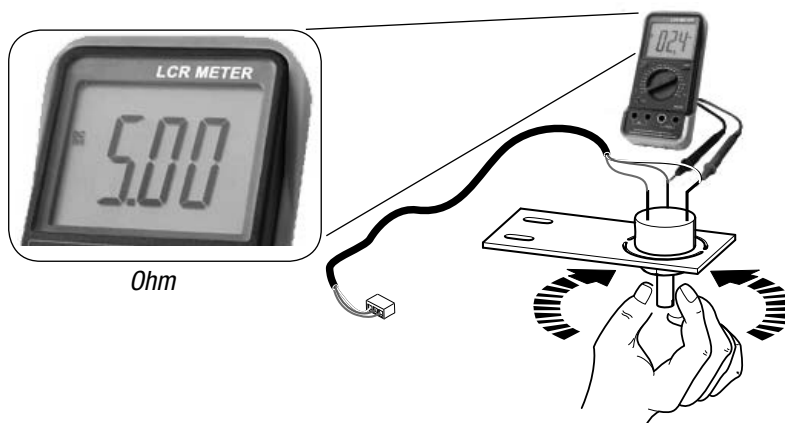
10.4 Thrust meter substitution and setting procedure

- When replacing the thrust meter make sure to cut off the power mains, loosen the nut and remove it from its holding plate.



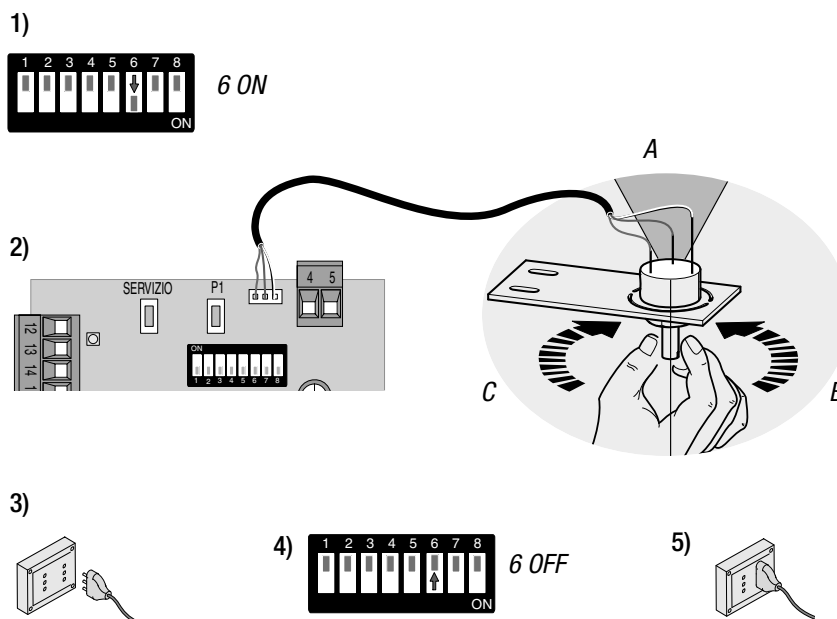
Setting the powergauge with a tester:

With power supply unit disconnected, apply one of the two tester points on the central terminal and the other on either of the ends; Turn the thrust meter cylinder until the (Ohm) tester reads $\approx 5.00\Omega$.

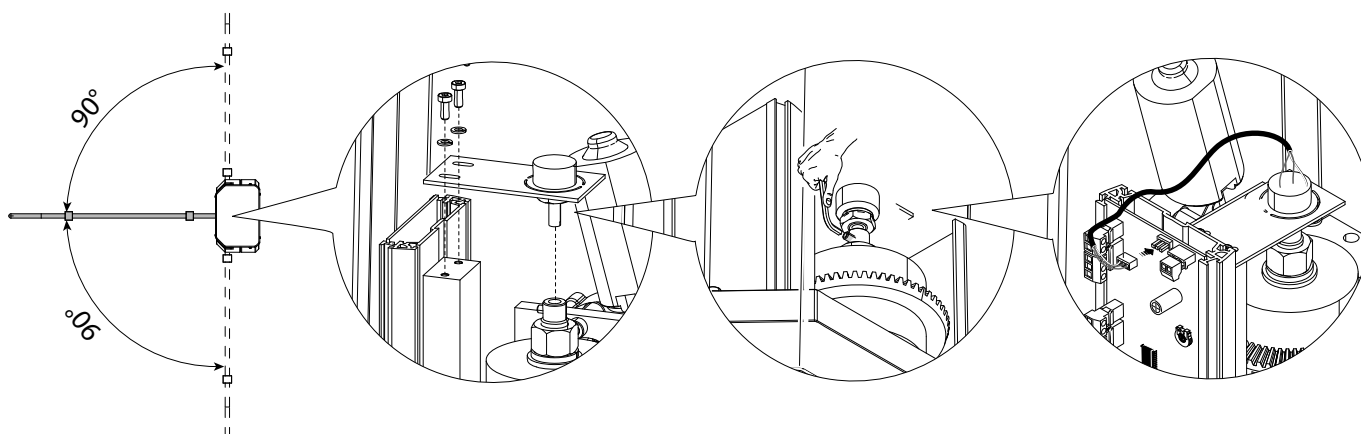


Setting the thrust meter via Dip switch 6 (when not using a tester, follow this procedure):

With thrust meter connected and the board powered up, set Dip switch 6 to ON; Turn the thrust meter cylinder. This procedure includes 3 types of sound signals. Using the shorter rotation-angle "A" find the sound type. This is the right position for the cylinder when installing. Once you have inserted and secured the thrust meter (see below), cut the power to the board, set Dip switch to OFF and power back up.



- Set the wing as shown in the picture, insert the thrust gauge into its housing, screw it down and plug in the connector into the socket on the board.



11 De-commissioning and disposal

 CAME Cancelli Automatici company is ISO 9001:2000 certified for its in-house quality system and ISO 14001 certified in terms of its environmental practices. We kindly ask you to keep on respecting the environment – CAME considers this one of the fundamentals of its own development and market operation strategies, by simply following these brief disposal instructions:

DISPOSING OF THE PACKAGING

The packaging components (cardboard, plastic, etc.) are considered solid urban waste and may be disposed without any trouble in the proper recycling bins supplied by your municipality.

DO NOT DISPOSE OF IN THE ENVIRONMENT

DISPOSING OF THE PRODUCT

Our products are made with different materials. The majority of these (i.e. aluminium, plastic, iron, electrical cables) consist of solid urban waste. They can be recycled at authorised recycling centres. Other components (electronic boards, remote control batteries, etc.) may contain toxic substances.

They must therefore be removed and turned into authorised firms that will dispose of them properly. Before proceeding it is always best to check the specific legislation in your municipality.

DO NOT DISPOSE OF IN THE ENVIRONMENT!

12 Declaration



MANUFACTURER'S STATEMENT

Pursuant to Low Voltage Directive 2006/95/CE



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declares that the following automations for the control of the pedestrian transit, denominate

PSEP0S00-PSEPSS00

are conform to the essential requirements and dispositions established by the Directives and applicable sections of reference Standards, as listed below:

-- DIRECTIVES --	
2006/95/CE	LOW VOLTAGE DIRECTIVE
2014/30/UE	ELECTROMAGNETIC COMPATIBILITY DIRECTIVE

-- STANDARDS --	
EN 13241-1	EN 60335-2-103
EN 61000-6-2	
EN 61000-6-3	
EN 60335-1	

MANAGING DIRECTOR
Mr. Gianni Michielan

Reference code to request a true copy of the original: DDC L EN 0001 - 4.0



English - Manual code: 119G3120 ver. 0.2 08/2010 © CAME cancelli automatici s.p.a.
The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

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