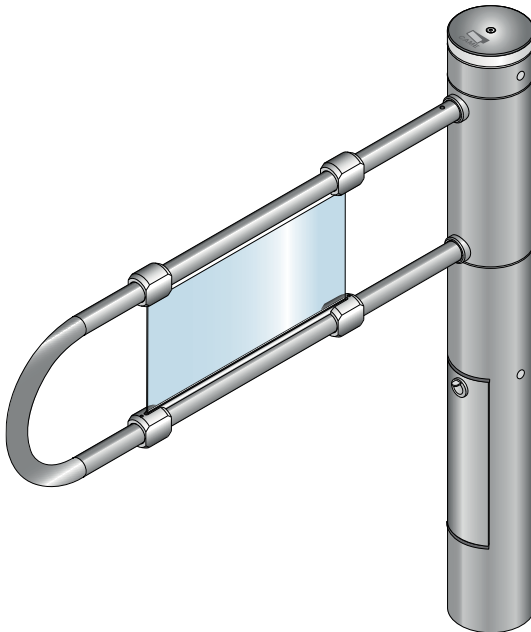


SWING-LEAF TURNSTILE



FA00068-EN



Official Partner



MILANO 2015
FEEDING THE PLANET
ENERGY FOR LIFE

INSTALLATION MANUAL
SALOON40

EN English



WARNING!

important safety instructions for people: READ CAREFULLY!



Premise

• Employ this product only for the use for which it was expressly made. Any other use is dangerous. CAME S.p.A is not liable for any damage caused by improper, wrongful and unreasonable use • The safety of this product and its proper fitting depends, therefore, on respecting its technical characteristics and proper fitting, to be done in state-of-the-art fashion, and under safe conditions as expressly explained in the literature that comes with the product. • Keep these warnings together with the installation and operation manuals that come with the operator.

Before installing

(checking what's there: if something is missing, do not continue until you have complied with all safety provisions)

• Fitting and testing must be only performed by qualified technicians. Laying the cables, installation and testing must follow state-of-the-art procedures as dictated by regulations • Before beginning any operation it is mandatory to carefully read all instruction; improper installation may result in serious harm to people and things. • Make sure the operator is in good mechanical state, balanced and aligned, and that it opens and closes properly. Also, if needed, fit suitable protections or use proper safety sensors • If the operator is to be installed at a height of over 2.5 m from the ground or other access level, make sure you have any necessary protections and/or warnings in place • Make sure that the opening turnstile or gate cannot entrap people • Do not install the operator upside down or onto elements that could yield and bend. If necessary, add suitable reinforcements to the anchoring points • Do not install the operator on tilted surfaces • Make sure any sprinkler systems cannot wet the operator from the ground up.

Installing

• Suitably section off and demarcate the entire installation site to prevent unauthorized persons from entering the area, especially minors and children • Be careful when handling operators that weigh over 20 kg. If need be, use proper safety hoisting equipment • The CE-marked safety devices (photocells, stepping plates, sensitive safety-edges, emergency buttons, and so on), must be fitted in compliance with the regulations in effect and according to state-of-the-art criteria, taking into account the environment, the type of required service and of the working forces applied to moving leaves. Any shearing or conveying points must be sensor-protected • Any residual risks must be pointed out to end users and highlighted with pictograms as provided by the law. • All opening commands (that is, buttons, key switches, magnetic readers, and so on) must be installed at least 1.85 m from the perimeter of the gate's working area, or where they cannot be reached from outside the gate. Also, any direct commands (buttons, touch panels, and so on) must be installed at least 1.5 m from the ground and must not be reachable by unauthorized persons • The turnstile must visibly show its identification data. • Before connecting the main power supply make sure that the identification data correspond to the those of the network • The turnstile must be connected to an effective regulation grounding system.

• The manufacturer declines any liability for using non-original products; which would result in warranty loss • All maintained action commands, must be fitted in places from which the moving gate leaves and transit and driving areas are visible • Apply, if missing, a permanent sign showing the position of the release device • Before delivering to the users, make sure the system is EN 12453 and EN 12445 standard compliant (regarding impact forces), and also make sure the system has been properly adjusted and that any safety, protection and manual release devices are working properly • Apply Warning Signs where necessary and in a visible place.

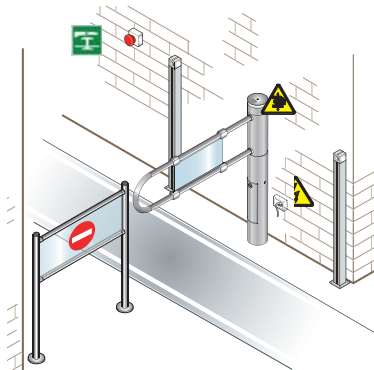
Special user-instructions and recommendations

• Keep turnstile operation areas clean and free of any obstructions. Make sure the photocell's operating field is clear of any obstructions • do not allow children to play with fixed commands, or to loiter in the turnstile's maneuvering area. Keep any remote control transmitters or any other command device away from children, to prevent the operator from being accidentally activated • The apparatus may be used by children of eight years and above and by physically, mentally and perceptively challenged people, or even ones without any experience, provided this happens under close supervision or once they have been properly instructed to use the apparatus safely and to the potential hazards involved. Cleaning and maintenance by users must not be done by children, unless properly su-

pervised • Frequently check the system for any malfunctions or signs of wear and tear or damage to the moving structures, to the component parts, all anchoring points, including cables and any accessible connections. Keep any hinges, moving joints and friction points properly lubricated • Perform functional checks on the photocells and sensitive safety edges, every six months. Constantly clean the photocells' glass covers using a slightly water-moistened cloth; do not use solvents or chemicals that could damage the devices • If repairs or modifications are required to the system, cut off the main power supply and do not use it until safety conditions have been restored • Cut off the power supply before performing any manual openings • If the power supply cable is damaged, it must be replaced by the manufacturer or authorized technical assistance service, or in any case, by similarly qualified persons, to prevent any risk • It is FORBIDDEN for users to perform any OPERATIONS THAT ARE NOT EXPRESSLY REQUIRED OF THEM AND WHICH ARE NOT LISTED in the manuals. For any repairs, modifications and adjustments and for extra-ordinary maintenance, CALL TECHNICAL ASSISTANCE • Log the job and checks into the periodic maintenance log.

Further recommendations for all

• Keep away from hinges and mechanical moving parts • Do not enter the operator's area of operation when it is moving • Do not counter the operator's movement as this could result in dangerous situations • Always pay special attention to any dangerous points, which have to be labeled with specific pictograms and/or black and yellow stripes • When using a selector switch or a command in maintained actions, keep checking that there are no persons within the operating range of any moving parts, until the command is released • The gate may move at any time and without warning • Always cut off the power supply before performing any maintenance or cleaning.



Danger of hand crushing






Danger! High voltage.



Emergency button

Legend

-  This symbol shows which parts to read carefully.
-  This symbol shows which parts describe safety issues
-  This symbol shows which parts to tell users about.

Description

This product is made by Came S.p.A. in conformity with current safety laws. Bidirectional motor-powered swing-leaf turnstile, with removable aluminum body and upper cover with anodized scotch-brite finishing for a STAINLESS STEEL look.

The leaf structure is made of aluminum and the panel is made of plexiglass.

The leaf opening, in either direction, can be activated by a card reader, photocells, or other control device. The opening speed of the 90° leaf is preset. The leaf opening can be automatic (it closes after a preset time) or activated by control device if the bidirectional opening is not set.

The operator IS reversible even when the operator is powered up. If the closed leaf is forced, it then repositions closed.

The complete range:

001PSSLN40 - Single bidirectional motor-powered swing-leaf turnstile.

Complementary accessories:

001PSSL90 - Leaf 900 mm;

001PSSL120 - Leaf 1,200 mm;

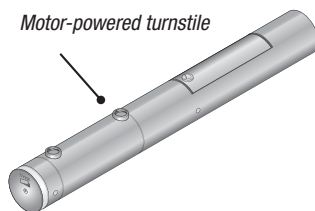
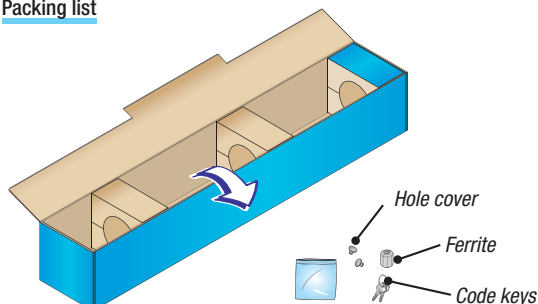
001PSSLC - Customized leaf, dimensions on request;

001PSSA01 - Control radar (optional);

001PSSA03 - Plastic sleeve for fastening the barrier (optional);

001PSSA04 - STAINLESS STEEL sleeve for fastening the barrier (optional).

Packing list



Intended use

The motor-powered turnstile is designed for controlling pedestrian transit in high-volume passage zones such as in shopping malls, supermarkets, fitness centers and all of those areas where the transit of people needs to be controlled.

 Any installation and/or use other than that specified in this manual is forbidden.

Limits to use

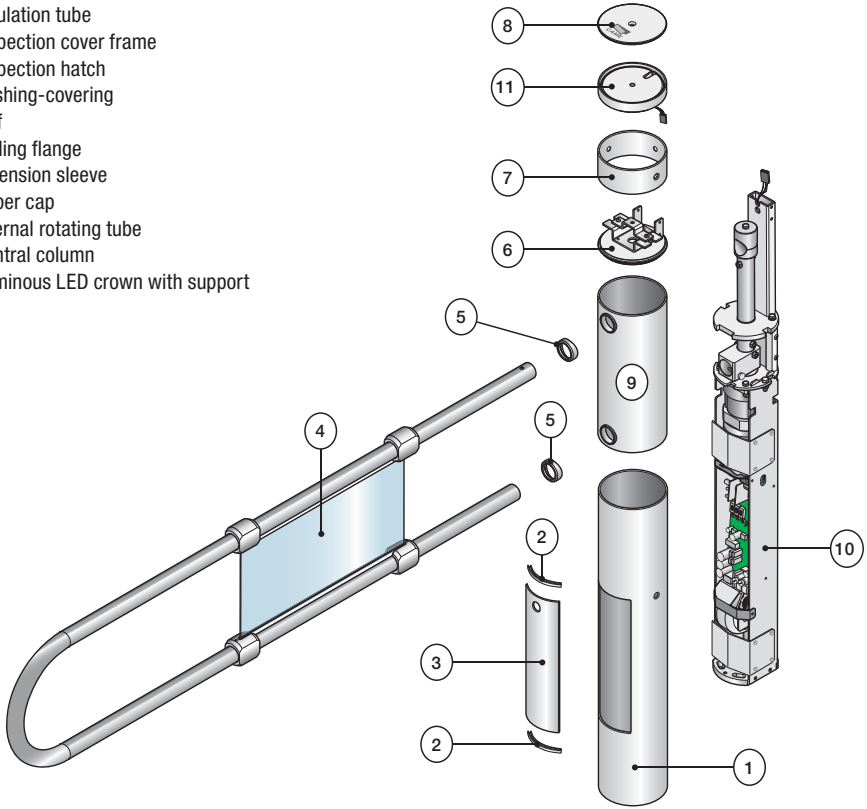
The maximum width of the leaf is 1,200 mm and its weight is 1.5 Kg.

Technical data

Type	PSSLN40
Protection rating (IP)	40
Power supply (V - 50/60 Hz)	120 / 230 AC
Motor power supply (V)	24 DC
Draw (mA)	350 mA
Power (W)	120
Operating temperature [°C]	-20 ÷ +55
Insulation class	I
Weight (kg)	17

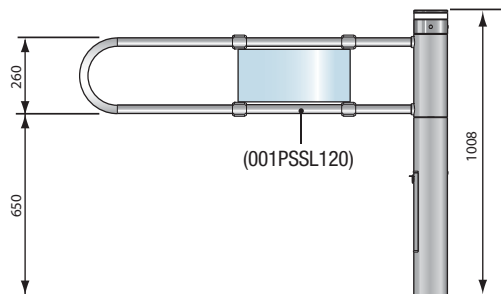
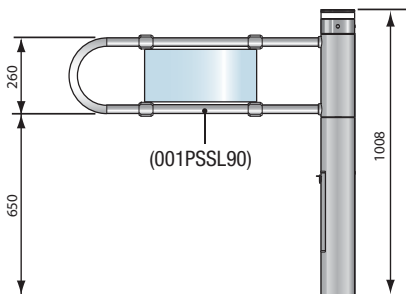
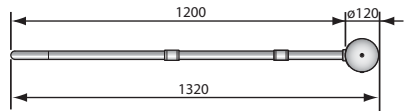
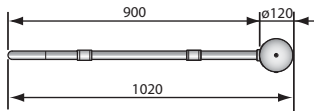
Main components

1. Insulation tube
2. Inspection cover frame
3. Inspection hatch
4. Bushing-covering
5. leaf
6. Sliding flange
7. Extension sleeve
8. Upper cap
9. Internal rotating tube
10. Central column
11. Luminous LED crown with support



Dimensions

(mm)



System feasibility

⚠ Only skilled, qualified staff must install this product.

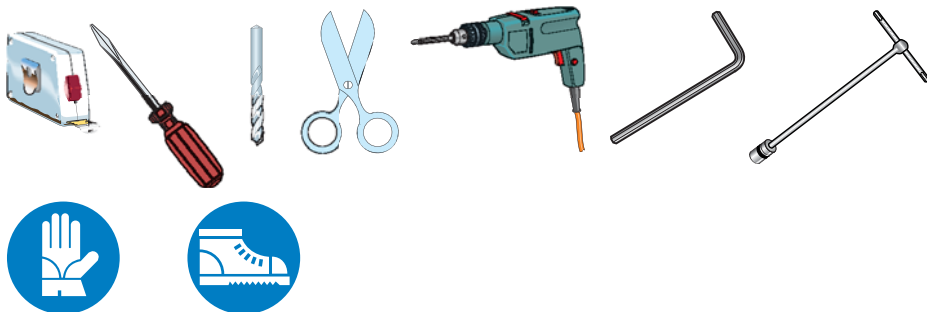
Preliminary checks

⚠ Before beginning, do the following:

- Have in place a suitable dual pole cut-off switch with minimum contact openings of 3 mm, and section the power supply;
- Set up suitable tubes and conduits for the electric cables to pass through, making sure they are protected from any mechanical damage;
- ⚡ Make sure that any connections inside the container (ones that ensure continuity to the protection circuit) are fitted with additional insulation with respect to those of other electrical parts inside;
- Make sure the passage area is in a proper state and without any dips.
- Set up barriers around the installation site during mounting operations, and an alternative route.

Tools and materials

Make sure you have all the tools and materials you will need for installing in total safety and in compliance with applicable regulations. The figure shows some of the equipment installers will need.



Cable types and minimum thicknesses

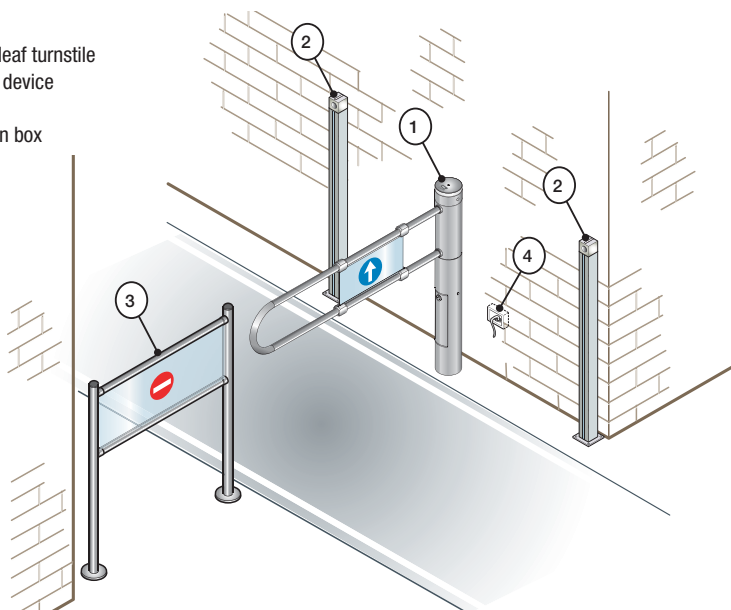
Connection	Cable type	Cable length 1 < 20 m	Cable length 20 < 30 m
Control panel power-supply	FROR CEI 20-22	3G x 1.5 mm ²	3G x 1.5 mm ²
Command and safety device	CEI EN 50267-2-1	2 x 0.5 mm ²	2 x 0.5 mm ²
Control devices (RBM84-CRP)	CAT 5 -U/UTP AWG 24	1000 m max.	
Paired connection			

If cable lengths differ from those specified in the table, establish the cable sections depending on the actual power draw of the connected devices and according to the provisions of regulation CEI EN 60204-1.

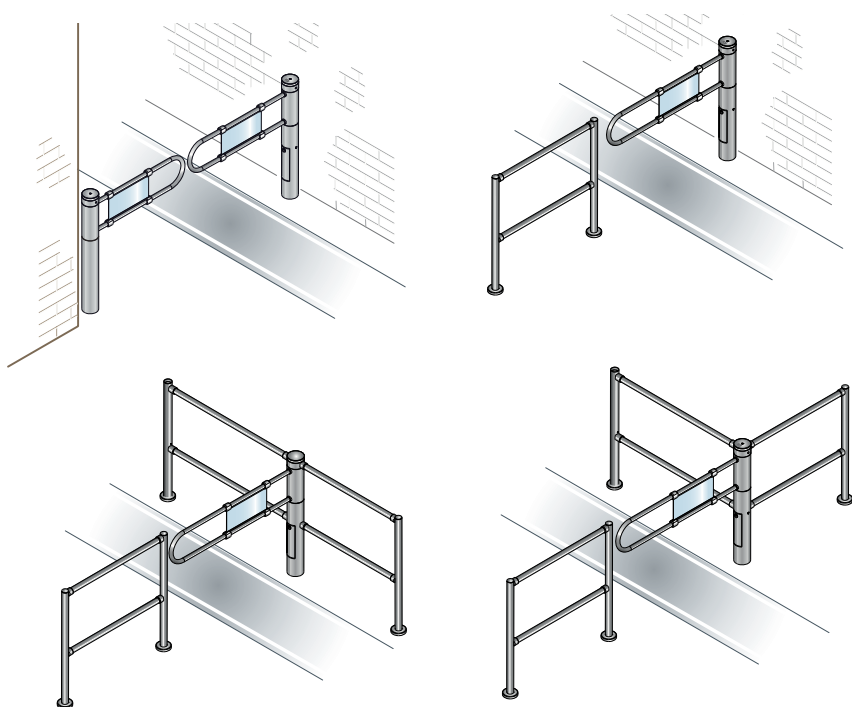
For multiple, sequential loads along the same line, the dimensions on the table need to be recalculated according to the actual power draw and distances. If connecting products that are not contemplated in this manual, see the literature accompanying said products

Standard installation

1. Swing-leaf turnstile
2. Control device
3. Barrier
4. Junction box



Applicative examples



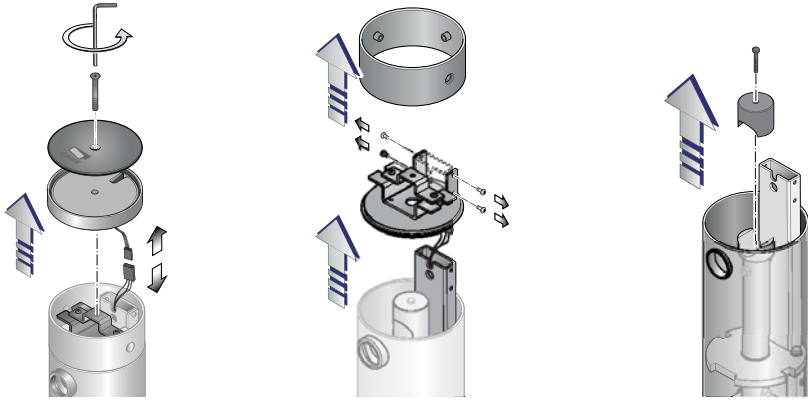
Installing

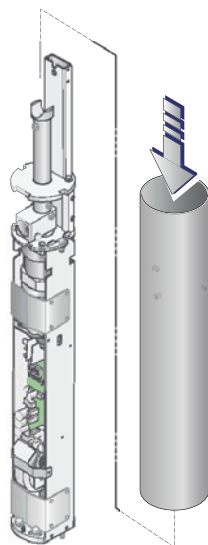
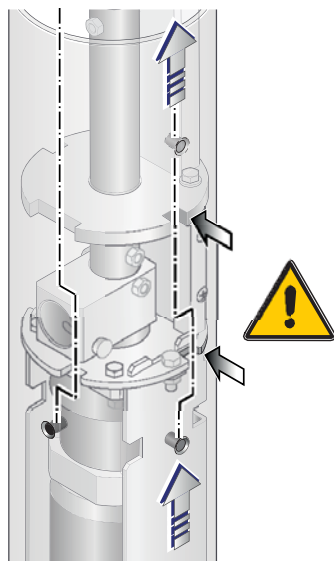
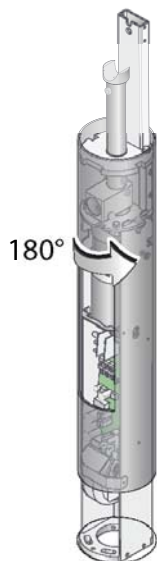
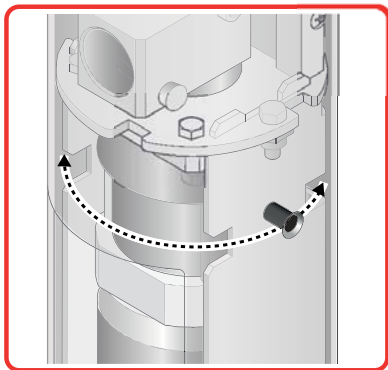
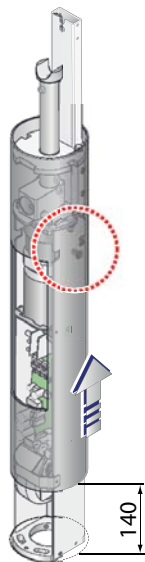
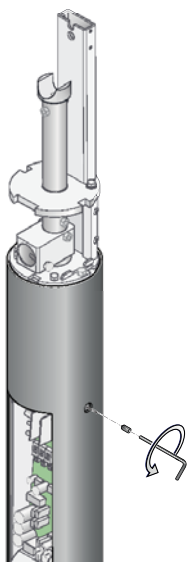
⚠ The following illustrations are mere examples. Consider that the space available where to fit the operator and accessories will vary depending on the installation site. It is up to each installer to select the most suitable solution.

⚠ Careful! Use hoisting equipment to transport and position the turnstile.

During the pre-mounting and fastening stages, the turnstile could be unstable and it could tip over. So, be careful to not lean on it until it is completely anchored.

Preliminary steps



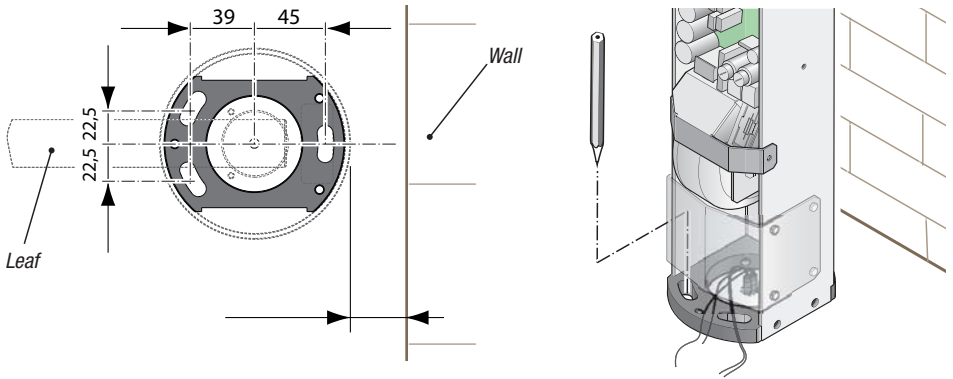


Preparing the site and the turnstile base

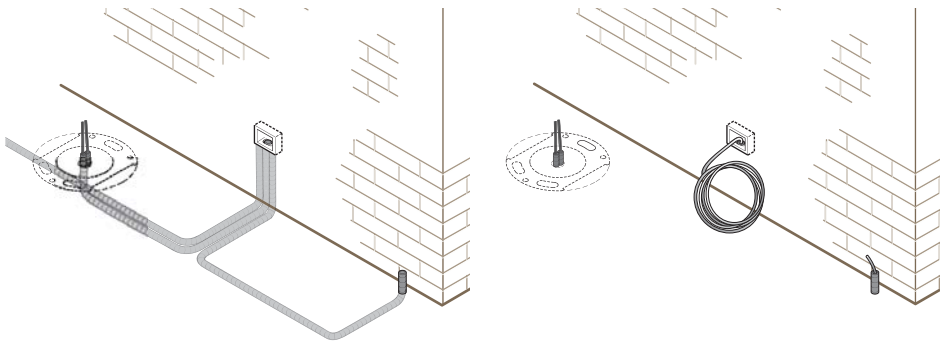
Check that there are no dips in ground where you will anchor the turnstile.

Position the anchoring base as shown in the drawing (the leaf is perpendicular to the wall). Mark the anchoring holes with a pencil.

Note: when installing up against walls, respect the minimum distance of 40 mm.



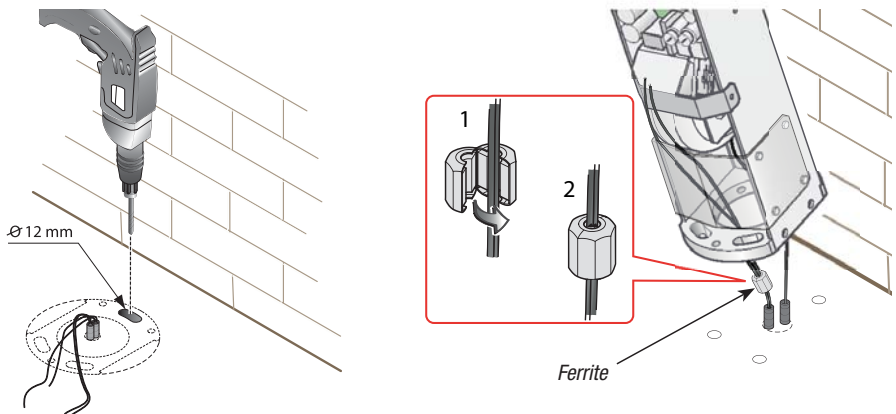
Fit conduits and run the cables through (see the "cable types and minimum thicknesses" table).



Drill the marked spots.

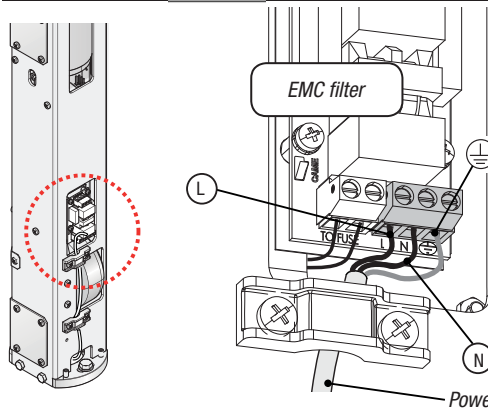
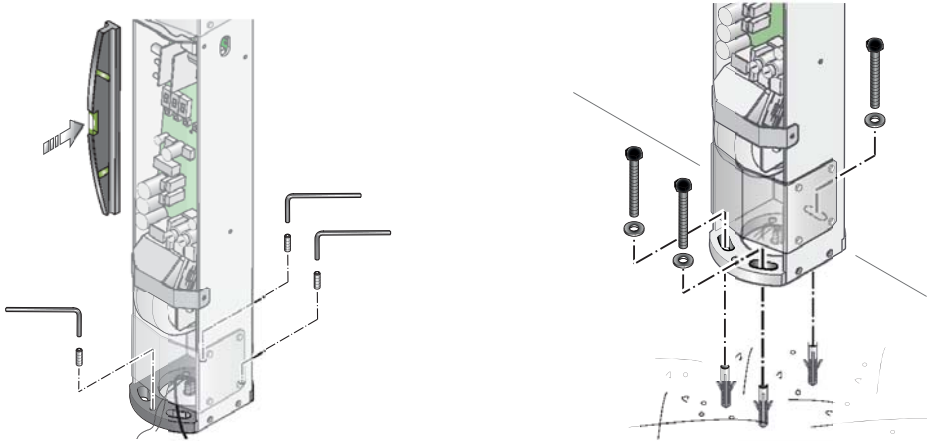
Before anchoring the turnstile to the ground, distribute the electric cables inside the column (see the drawing).

Note: apply the ferrite to the controls / accessories cables.



Fastening the turnstile to the ground

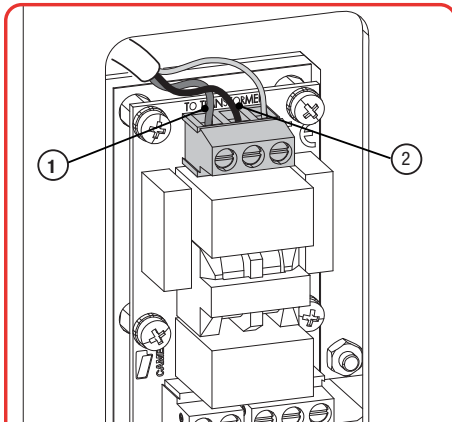
Position the base on the anchoring spot and level it, if necessary, by using the adjusting screws.



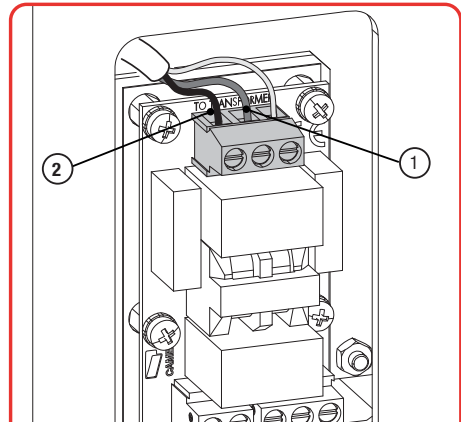
Connect the line power supply to the card terminal housed in the back of the central column.

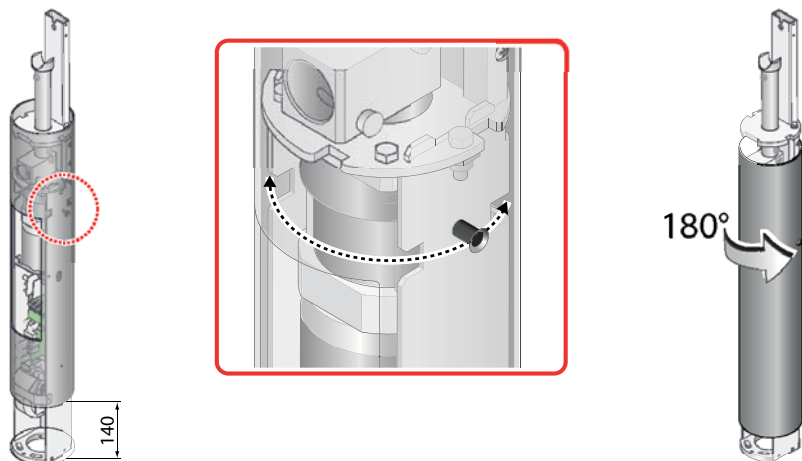
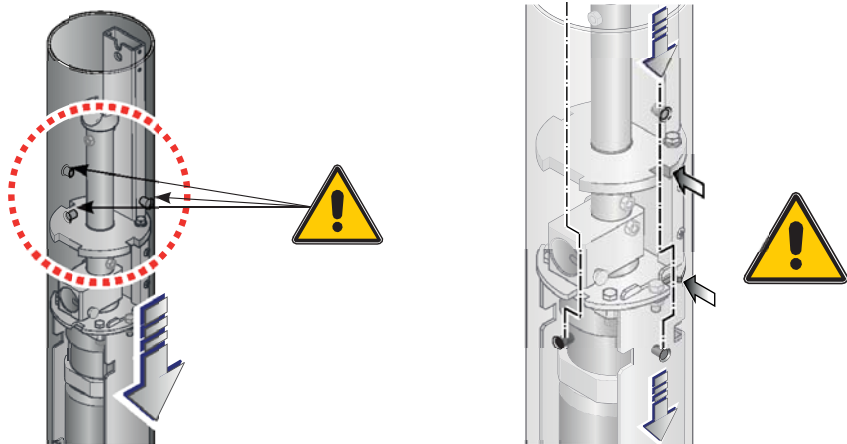
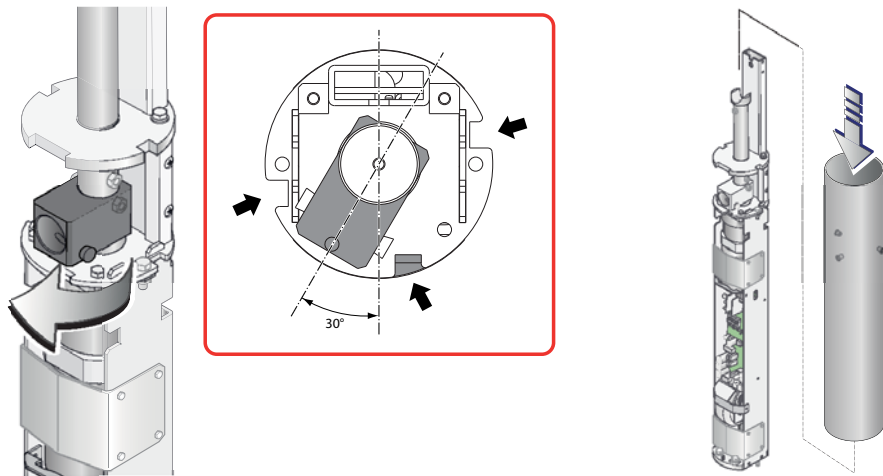
Ref.	Description
(N)	Neutral
(L)	Line
(⊕)	Ground
(1)	RED cable: power supply 230 V AC to transformer (line fuse 1.6 A-F)
(2)	BLACK CABLE: power supply at 120 V AC to transformer (line fuse 3.15 A-F)

NETWORK POWER SUPPLY 230V AC (Factory configuration)



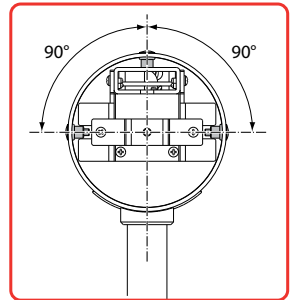
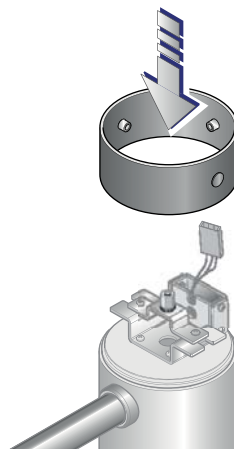
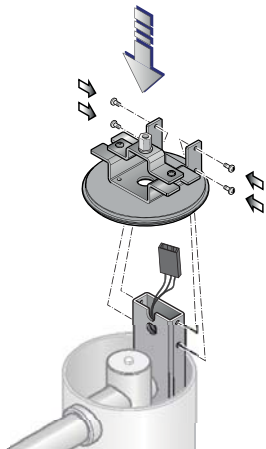
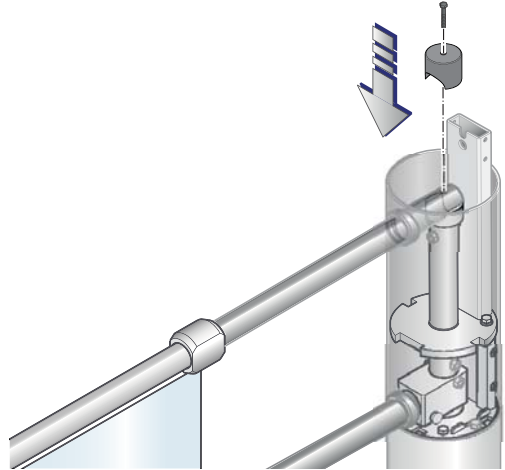
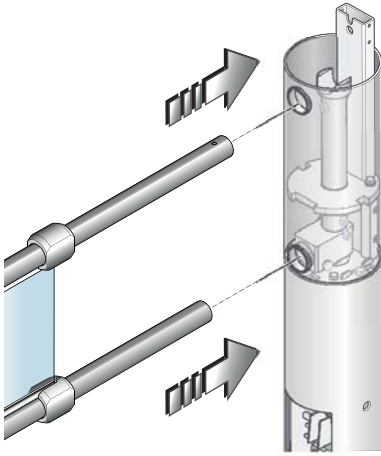
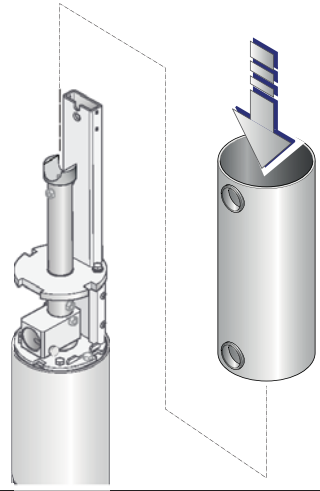
NETWORK POWER SUPPLY 120V AC (Invert cables 1 and 2 as shown)

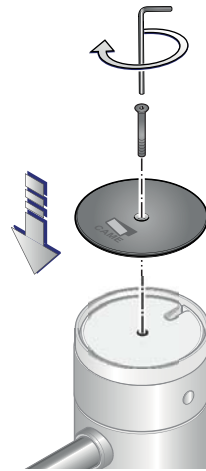
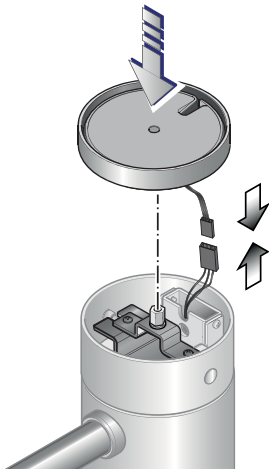




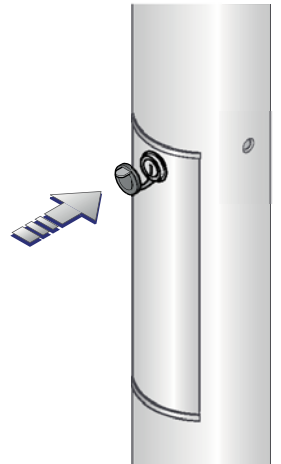
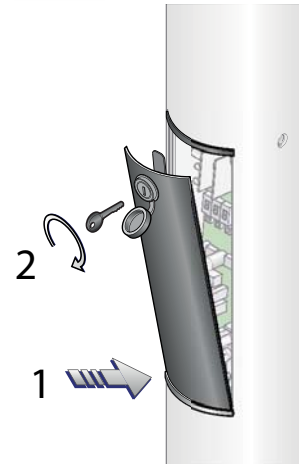
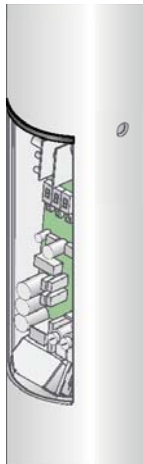
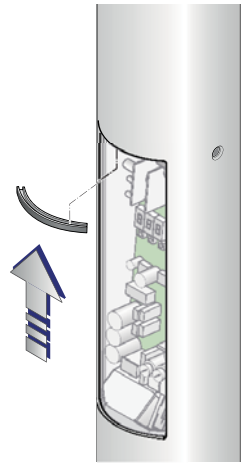
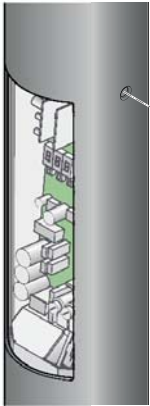


At this point of the mounting, use the control panel to check that the turnstile works properly (the direction of travel and speed), see the paragraph on the control panel functions.





Center the tube with the control panel.



Command and control electronics

Description

The control panel is powered at 24 V AC.

The control devices and accessories are powered at 24 V. Careful! The accessories must not exceed 10 W overall.

All connections are quick-fuse protected.

Functions on input and output contacts and time and user management details, are set up and viewable on the software-managed control panel's display.

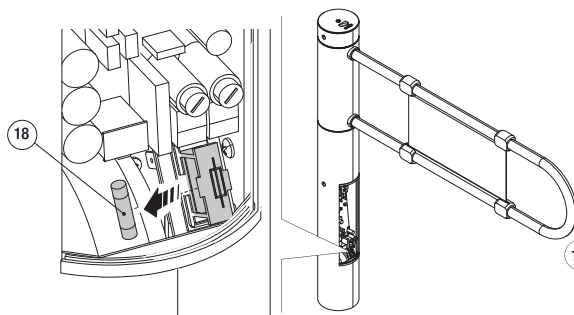
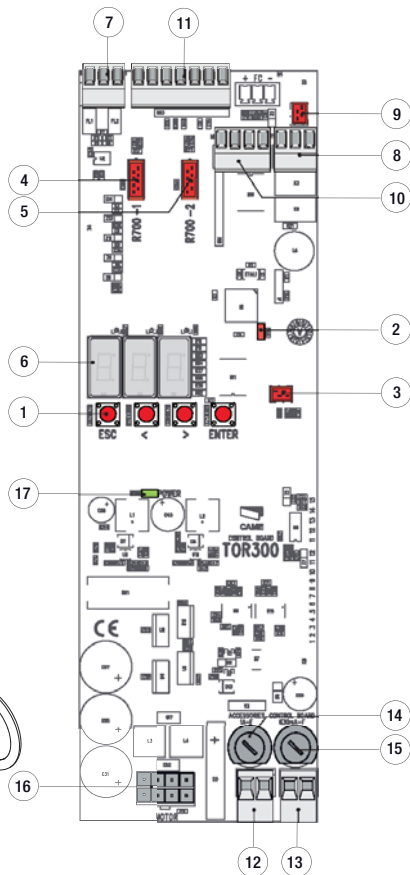
⚠ *Warning! Before intervening on the control panel, cut off the main power supply.*

FUSE TABLE

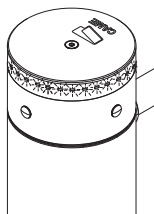
Line fuse	1.6 A-F (230 V) 3.15 A-F (120 V)
Accessories fuse	1 A-F
Control unit fuse	630 mA-F






Main components

- 1 Programming buttons
- 2 Programming warning LED
- 3 Memory roll card connector
- 4 R700 card connection of the first control device
- 5 R700 card connection of the second control device
- 6 Display
- 7 Control devices or paired connection terminals
- 8 Warning devices terminals
- 9 Connector for LED luminous band
- 10 Transponder terminals
- 11 Control devices terminals
- 12 Accessories power supply terminals
- 13 Control board power supply terminals
- 14 Accessories fuse
- 15 Control board fuse
- 16 Motor connector/encoder
- 17 LED power on warning
- 18 Line fuse



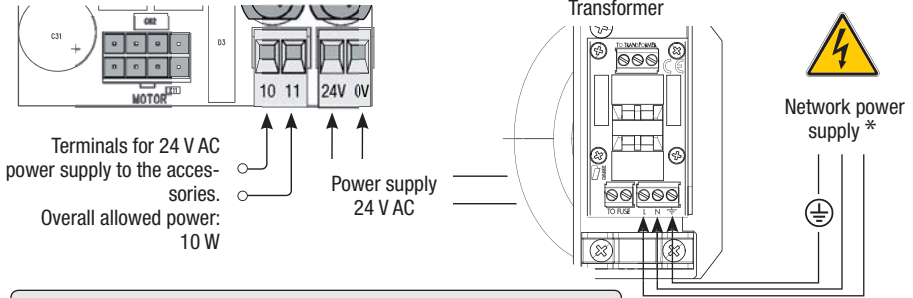
Warning LED



Green LED		Flashing	Leaf/leaves opening
		Turned on steady	Stand-by
Red LED		Slow flashing	Leaf/leaves closing
		Quick flashing	Preflashing time before the leaf closing phase Stop button (N.C. contact)
Blue LED		Flashing	Automatic closing time

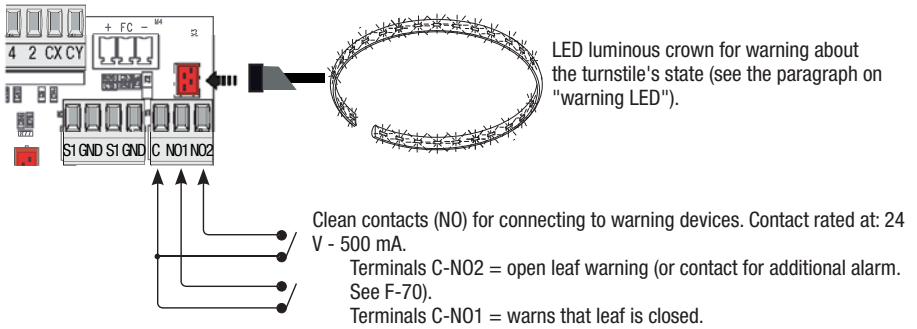
Electrical connections

Power supply

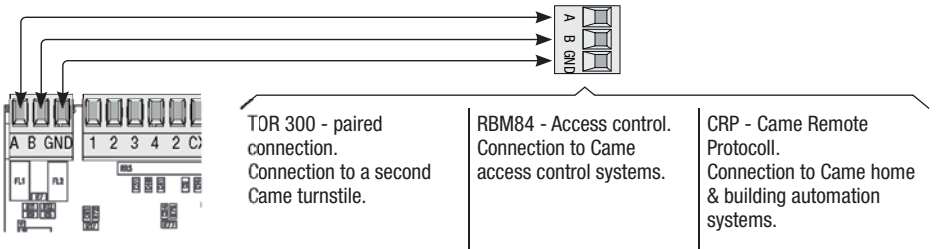


* Set up for 230 V power supply. Change line fuse if powered at 120 V.

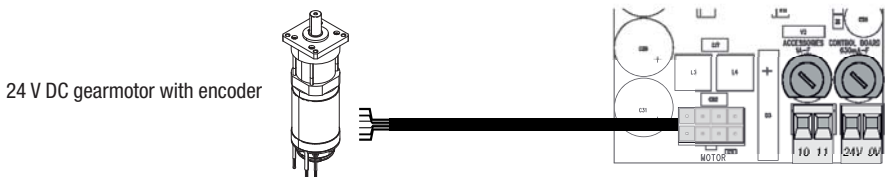
Warning devices

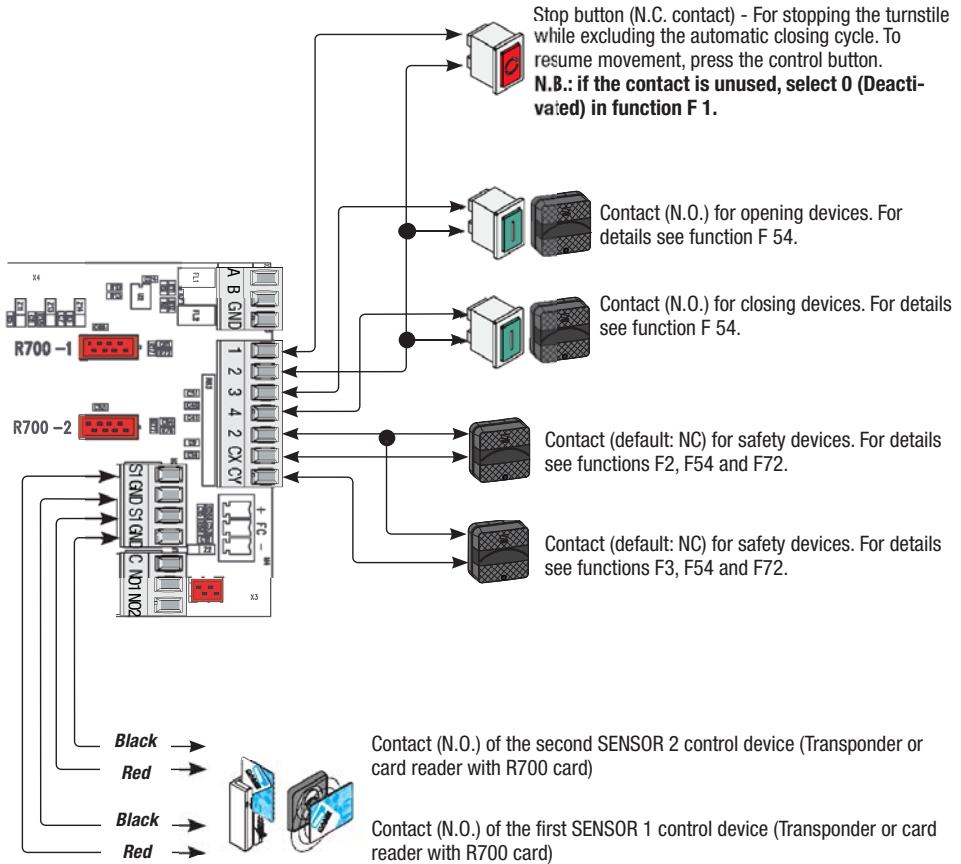


Control device



Gearmotor with encoder

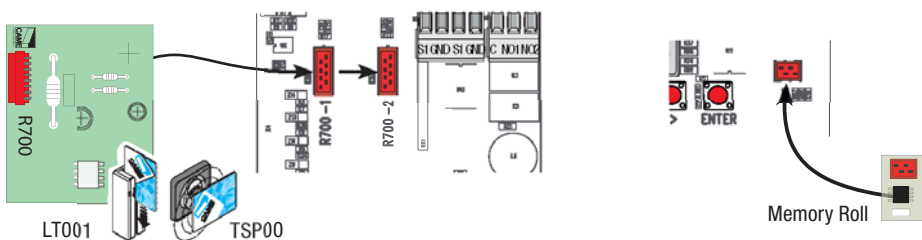




Other connections

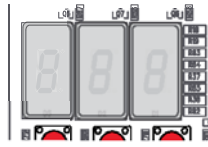
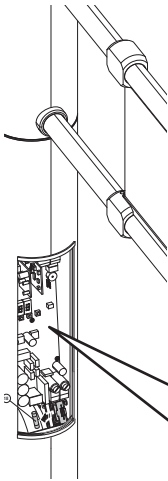
The R700 decoding cards are for controlling the turnstile fitted with the TSP00/LT001 sensors, the MEMORY ROLL to save and upload of the settings including the registered users in another card.

⚠ For proper operation, before fitting any plug-in card (e.g.: the AF or the R700) YOU MUST CUT OFF THE MAIN POWER SUPPLY and disconnect any emergency batteries.

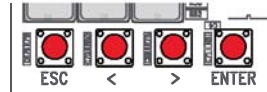


Programming

Description of programming commands



Display for viewing functions and settings that are assigned via the programming buttons.



The button ENTER is for

- entering the programming
- entering the single menus
- confirming/memorizing the set value

The key < > are for

- moving from one item to another
- increasing or decreasing values

The key ESC is for exiting menus without saving the changes

Menu map



Start programming by first performing functions A 2 Motor test and A 3 Travel calibration.

- F 1 Total stop
- F 2 Setup input 2-CX
- F 3 Setup input 2-CY
- F 19 Automatic closing
- F 21 Preflashing
- F 28 Opening speed
- F 29 Closing speed
- F 30 Opening slow-down
- F 31 Closing slow-down
- F 34 Travel sensitivity
- F 35 Slow-down sensitivity
- F 49 Operation
- F 50 Saving data
- F 51 Read data
- F 52 Copy parameters from Master to Slave
- F 53 AntiPassBack
- F 54 Entry direction

- F 55 Standard alarm
- F 56 Peripheral number
- F 57 Offset closing limit-switch
- F 62 Automatic restoring
- F 70 Additional alarm
- F 72 Change state of safety contacts

- U 1 Memorizing a user
- U 2 Deleting a user
- U 3 Deleting all users

- A 2 Motor test
- A 3 Calibrating boom travel
- A 4 Resetting parameters

- H 1 Firmware version

Function	Description (<i>negative [XX] default values</i>)
F-1	Total Stop. With button connected to terminals 1-2. [0] To deactivate it (this is obligatory when there is no button); [7] to activate it.
F-2	Input 2-CX setup. Choosing the function activated by the connected device. [0] To deactivate it; [7] for the reopening during closing phase function; [4] for the obstruction wait function.
F-3	Setup input 2-CY. Choosing the function activated by the connected device. [0] To deactivate it; [7] for the closing phase reopening function; [] for the obstruction wait function. [4]
F-19	Automatic closing. The automatic closing timer activates when the leaf reaches the opening limit-switch. The preset time is adjustable, and is in any case subject to the intervening of any safety devices and it deactivates after a total safety "stop" or during power outages. [7].....[50] setting between 1 and 60 seconds.
F-21	Preflashing. After a closing command, the luminous LED band connected to the control board flashes for a settable time before starting the maneuver. [0] To deactivate it; [7].....[5] setting from 1 to 5 seconds.
F-28	Opening speed. Setting the speed during the opening maneuvers, calculated as a percentage. [40].....[100] Setting from 40 to 100% of the motor speed.
F-29	Closing speed. Setting the speed during the closing maneuvers, calculated as a percentage. [40].....[80] Setting from 40 to 80% of the motor speed.
F-30	Opening slow-down. Setting the speed during opening slow-downs, calculated as a percentage. [20].....[30] Setting from 20 to 30% of the motor speed.
F-31	Closing slow-down. Setting the speed during closing slow-downs, calculated as a percentage. [20].....[30] Setting from 20 to 30% of the motor speed.
F-34	Travel sensitivity. Setting the obstruction detection sensitivity during maneuvers. From maximum [70...] to minimum [... [100] sensitivity.
F-35	Slow-down sensitivity. Setting the obstruction detection sensitivity during slow-downs. From maximum [70...] to minimum [... [100] sensitivity.
F-49	Gestione. Setting the turnstile operating modes. [0] Stand Alone operation; [7] paired connection operation; [] operation from RBM84 access control; [] operation via CRP (Came Remote Protocol). [23]
F-50	Saving data. Saving registered users and all settings in the Memory Roll . [0] The function appears only with Memory Roll connected. [0] To deactivate it; [7] to activate it.
F-51	Data reading. Uploading all data from Memory Roll . [0] The function appears only with Memory Roll connected. [0] To deactivate it; [7] to activate it.
F-52	Copy parameters from Master to Slave. See details in the "Paired connection" section. [0] To deactivate it; [7] to activate it.
F-53	Antipassback. To prevent a card from being used for two or more consecutive entries in the same area. [0] To deactivate it; [7] to activate it.

Function	Description (<i>negative [XX] default values</i>)
F-54	<p>Direction of entry. Setting the direction of entry.</p> <p>[0] Commands: on 2-3 counter-clockwise opening; on 2-4 closing. Safeties: on 2-CX and 2-CY they intervene in both rotations.</p> <p>[1] Commands: on 2-3 clockwise opening; on 2-4 closing. Safeties: on 2-CX and 2-CY they intervene in both rotations.</p> <p>[2] Commands: on 2-3 counter-clockwise opening; on 2-4 clockwise opening. Safeties: on 2-CX they intervene during the counter-clockwise rotation; on 2-CY they intervene during the clockwise rotation.</p> <p>[3] Commands: on 2-3 clockwise opening; on 2-4 counter clockwise opening. Safety devices: on 2-CX intervene in the clockwise rotation; on 2-CY intervene in the counter clockwise rotation.</p>
F-55	<p>Standard alarm. Setting the internal buzzer's activation time. It activates when contacts 2-CX and 2-CY open with the leaf closed or during the pre-flashing phase set up on F-21.</p> <p>[0] To deactivate it; [1].....[60] setting between 1 and 60 seconds.</p>
F-56	<p>Peripheral number. If the turnstile is managed by the RBM84 access control (see F-49), it is best to assign a univocal number to each one.</p> <p>[1].....[255] The maximum number of allowed turnstiles is 255.</p>
F-57	<p>Offset closing limit-switch. See detail in the "Offset closing limit-switch" chapter.</p> <p>From -45° [-45] to no setting [0] to +45° [45].</p>
F-62	<p>Automatic restoring. Restoring time of the closing leaf, after manually forcing it.</p> <p>[1].....[10] Setting between 1 and 10 seconds.</p>
F-70	<p>Additional alarm. It changes function to terminal C-N02 (leaf open) for connecting a sound alarm device.</p> <p>[0] To deactivate it; [1] to activate it.</p>
F-72	<p>Change status of contacts. It varies the (NO/NC) state of the safety contacts CX and CY. It is for connecting any accessories with NO contacts (such as a sensitive-plate).</p> <p>[1] [2] [4] CX becomes NO; [] CY becomes NO; [] both NO.</p>
U-1	<p>Memorizing a user. See detail in the "Entering a user" chapter.</p>
U-2	<p>Deleting a user. See detail in the "Deleting a user" chapter.</p>
U-3	<p>Completely deleting users. Deleting all memorized users. Once deleted the following [] will appear. [L] [R]</p> <p>[0] [1] to delete all users.</p>
A-2	<p>Motor test. See detail in the "Motor test" chapter.</p> <p>[0] To deactivate it; [1] to activate it.</p>
A-3	<p>Calibrating travel. See details in "Calibrating travel".</p> <p>[0] [1] to deactivate it.</p>
A-4	<p>Reset parameters. Deleting the entire programming (including travel calibration) and returning to default parameters.</p> <p>[0] [1] to restore all default parameters.</p>
H-1	<p>Firmware version. Views the firmware version. For example [1.0]</p>

Motors test

 Always start programming the turnstile from this procedure.

Activate procedure A 2, see Functions detail table.

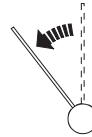
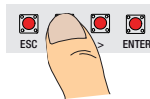
After pressing, the ENTER waiting [] will appear. [] [] []




Keeping the button pressed, > check that the turnstile performs a CLOCKWISE maneuver.



Then, use the button < to check that the turnstile performs a COUNTER CLOCKWISE maneuver.



 * With an entry direction other than the default one (see function F-54) the direction of opening could be inverted.

If the rotations are correct, move on to travel calibration.

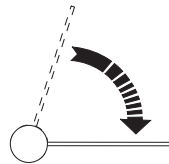
Travel calibration

 Before calibrating the travel, check that the maneuvering area is free of any obstructions.

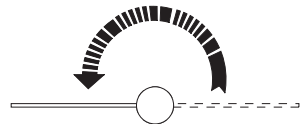
 During the calibration, all of the safety devices will be disabled except for the Total Stop.

Activate procedure A 3, see Functions detail table.

After pressing, the ENTER leaf will perform a clockwise movement until it mechanically stops.



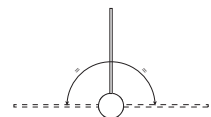
Then an inverted movement until the final mechanical stop.



Wait a few seconds for the registrations to appear on the display.

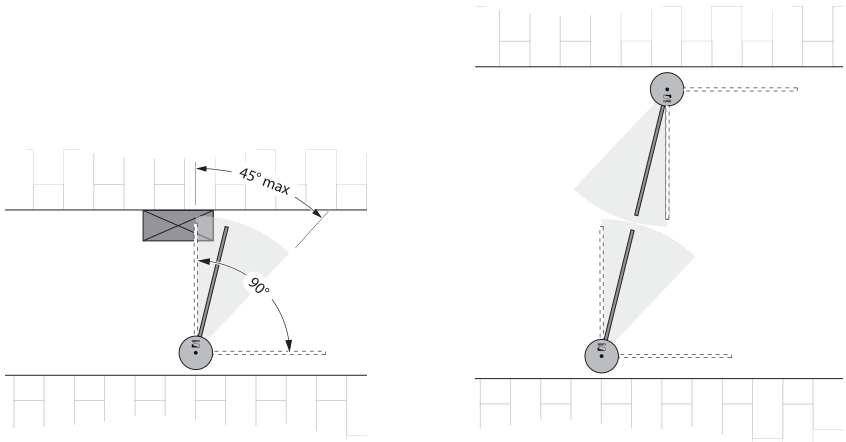


 The leaf closing position is established as the bisector of the final closing stops.

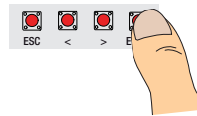


Offset closing limit-switch

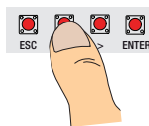
After calibrating the travel, the Offset closing limit-switch operation allows you to further adjust the position of the closed leaf, as illustrated in the examples.



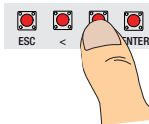
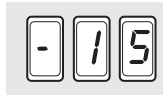
Select F 57. Press ENTER to confirm.



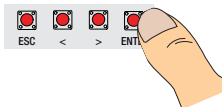
Press the > arrow key to compensate the limit-switch closes counter clockwise ...



... or the < arrow key to compensate the limit-switch closes clockwise.



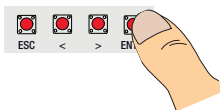
Press ENTER to confirm.



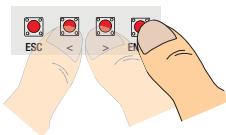
N.B.: when entering and deleting users, the numbers that appear flashing are available and usable numbers for entering new users (max. 150 users).

Entering users

Select U 1
Press ENTER to confirm.



Select 1 to activate the entering of a user via transponder card. Press ENTER to confirm.



A progressive number between 1 and 150 will appear and flash for a few seconds. Send the code via transponder card or other control device. The number stays fixed for an instant to show that the user registration has been completed...



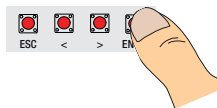
... then, another progressive number will appear and flash for the next user registration.



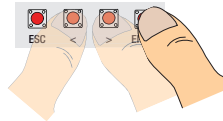
 Note: fill in the table on the following page to have a registered-user report.

Deleting a single user

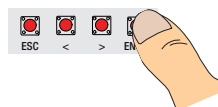
Select U 2. Press ENTER to confirm.



Select the number of the user to delete by using the arrow keys. Press ENTER to confirm.



The number will flash for a few seconds, press ENTER to reconfirm ...



... Clr will appear on the screen to confirm deletion.



List of registered users

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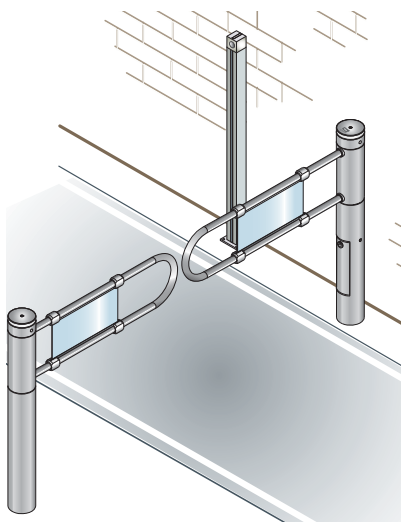
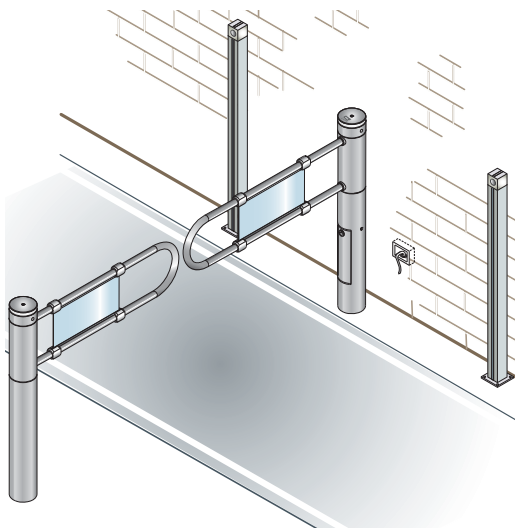
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Paired connection

Specific connections

Connect the two TOR 300 control boards with the CAT 5 - U/UTP - AWG 24 multi-pair woven unscreened cable to terminals A-B-GND.

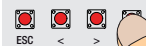


Connect all of the necessary devices onto TOR 300 control board of the your MASTER turnstile.

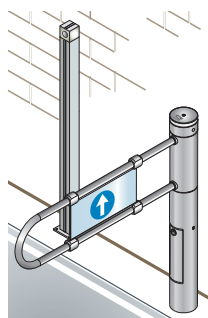
Setting and configuring the MASTER turnstile

Set all functions and make all adjustments only on the MASTER turnstile.

Configure the control board as MASTER. Select function F 49. Press ENTER to confirm.



Set to 1=paired and press ENTER.



Transferring parameters from MASTER to SLAVE



Only the following parameters are copied:

- opening and closing maneuvering speeds;
- opening and closing slow-down speeds;
- opening and closing slow-down points;
- slow-down and travel sensitivity;
- calibrating speed.

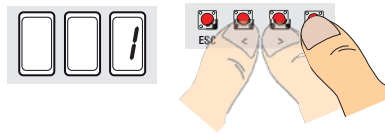
To transfer the parameters from MASTER to SLAVE control board, proceed as follows:

- select function F 52 on the MASTER control board.



- select 1 and press ENTER.

Note: with system that require the MASTER and the SLAVE to have different parameters, make the settings directly on to each control board.



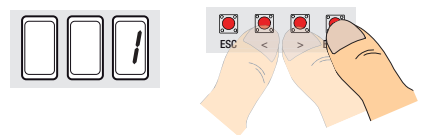
Travel calibration

Calibrate the MASTER control board

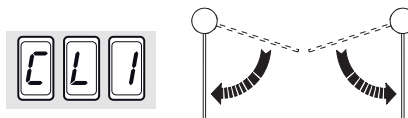
Select A 3 and press ENTER to confirm.



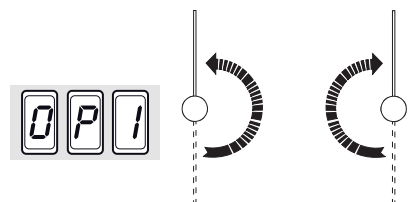
Select 1 and press ENTER to confirm the travel calibration operation.




The leaves will perform a slowed down maneuver until they come to a full stop.



The leaves will perform an inverted maneuver until they come to a full stop.



MAINTENANCE

 Before doing any maintenance, cut off the power supply, to prevent any hazardous situations caused by accidentally activating the operator.


 To properly maintain the AISI 304 stainless steel, refer to the stainless steel cleaning part of the 119RW48 manual.

Table of the mean cycles between failures (MCBF) of Saloon turnstiles, considering proper installation and maintenance as described in this manual:

Model	Operating limits	MCBF
001PSSLN40	maximum number of daily cycles: 15,000 Maximum number of cycles per minute: 12 (1 cycle every 5 seconds)	1,200,000

Periodic maintenance

• Every 400,000 cycles and in any case every six months:

- With the main power cut off, check for smooth sliding and gearmotor reversibility.
- Check proper fastening of nuts.
- Check proper fastening of external tube screws.
- Check proper fastening of ground anchoring bolts.
- Clean the inside of the operator from any dust created during operation.
- Cleaning/lubricating the plastic parts that slide in contact with the aluminum tube.
- Check that all electrical and wiring connections are sound and replace any damaged parts.
- Cleaning of the outer tube (clean with a water-dampened cloth).
- Keep the stop-go light clean (clean with a water-dampened cloth).
- If a radar is installed, keep the glass clean (clean with a water-dampened cloth).
- Check proper positioning of the leaf when opening and closing (possibly reset the parameters by following the instructions in the installation manual).

Troubleshooting

PROBLEM	POSSIBLE CAUSES	FIXES AND REMEDIES
The turnstile does not execute commands	<ul style="list-style-type: none">• No power supply• Stop button open	<ul style="list-style-type: none">• Check power network• Check proper state of the button
The turnstile stays open after a passage	<ul style="list-style-type: none">• Automatic closing function deactivated• Photocells employed	<ul style="list-style-type: none">• Call assistance• Call assistance

Error messages and notices during installation

MESSAGE	CAUSE	FIXES
Er3	<ul style="list-style-type: none">Encoder broken	<ul style="list-style-type: none">Replace the encoder
Er5	<ul style="list-style-type: none">Exceeded travel time	<ul style="list-style-type: none">Check operation of the gearmotor
Er6 + sound signal	<ul style="list-style-type: none">The encoder has detected an obstruction three consecutive times	<ul style="list-style-type: none">Remove the obstruction and give a command
Er8	<ul style="list-style-type: none">COM port error	<ul style="list-style-type: none">Check connection A-B-GND and the setting for function F49
C0	<ul style="list-style-type: none">Contact 1-2 (Stop) unused	<ul style="list-style-type: none">Deactivate with function F1
C1	<ul style="list-style-type: none">Contact CX and/or CY unused	<ul style="list-style-type: none">Deactivate with function F2/F3
Flashing red LED	<ul style="list-style-type: none">Travel is not calibrated yet	<ul style="list-style-type: none">Calibrate the travel

DISMANTLING AND DISPOSAL

 At its premises CAME S.p.A. employs the UNI EN ISO 14001 compliant Environmental Management System, to certify that the environment is respected and safeguarded.

Please continue safeguarding the environment. At CAME we consider it one of the fundamentals of our operating and market strategies. Simply follow these brief disposal guidelines:

DISPOSING OF THE PACKAGING

The packaging materials (cardboard, plastic, and so on) should be disposed of as solid urban waste, and simply separated from other waste for recycling.

Always make sure you comply with local laws before dismantling and disposing of the product.

DO NOT DISPOSE OF IN NATURE!

DISMANTLING AND DISPOSAL

Our products are made with different materials. Most of these (aluminum, plastic, iron, electrical cables) is classified as solid urban waste. It can be recycled by separating it before dumping at authorized city dumps.

Whereas other components (control boards, batteries, transmitters, and so on) may contain hazardous pollutants. These must therefore be disposed of by authorized, certified professional services.

Before disposing, it is always advisable to check with the specific laws that apply in your area.

DO NOT DISPOSE OF IN NATURE!

DECLARATION OF CONFORMITY

 Declaration - Came S.p.A. declares that this device conforms to the essential, pertinent requirements provided by directives 2006/42/EC and 2004/108/EC.

An original copy is available on request.

English - Manual code: **FA00068-EN** v. 1 04/2015 © Came S.p.A.
The data and information in this manual may be changed at any time and without notice.

CAME
safety & comfort



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