

RAMPART 600 / 1000

- IT  Attuatori elettromeccanici per porte sezionali
- EN  Electromechanical actuators for sectional doors
- FR  Actionneurs électromécaniques pour portes sectionnelles
- ES  Actuadores electromecánicos para puertas seccionales
- PT  Atuadores eletromecânicos para portas seccionadas



**MADE
—IN—
ITALY**



FIG. 1

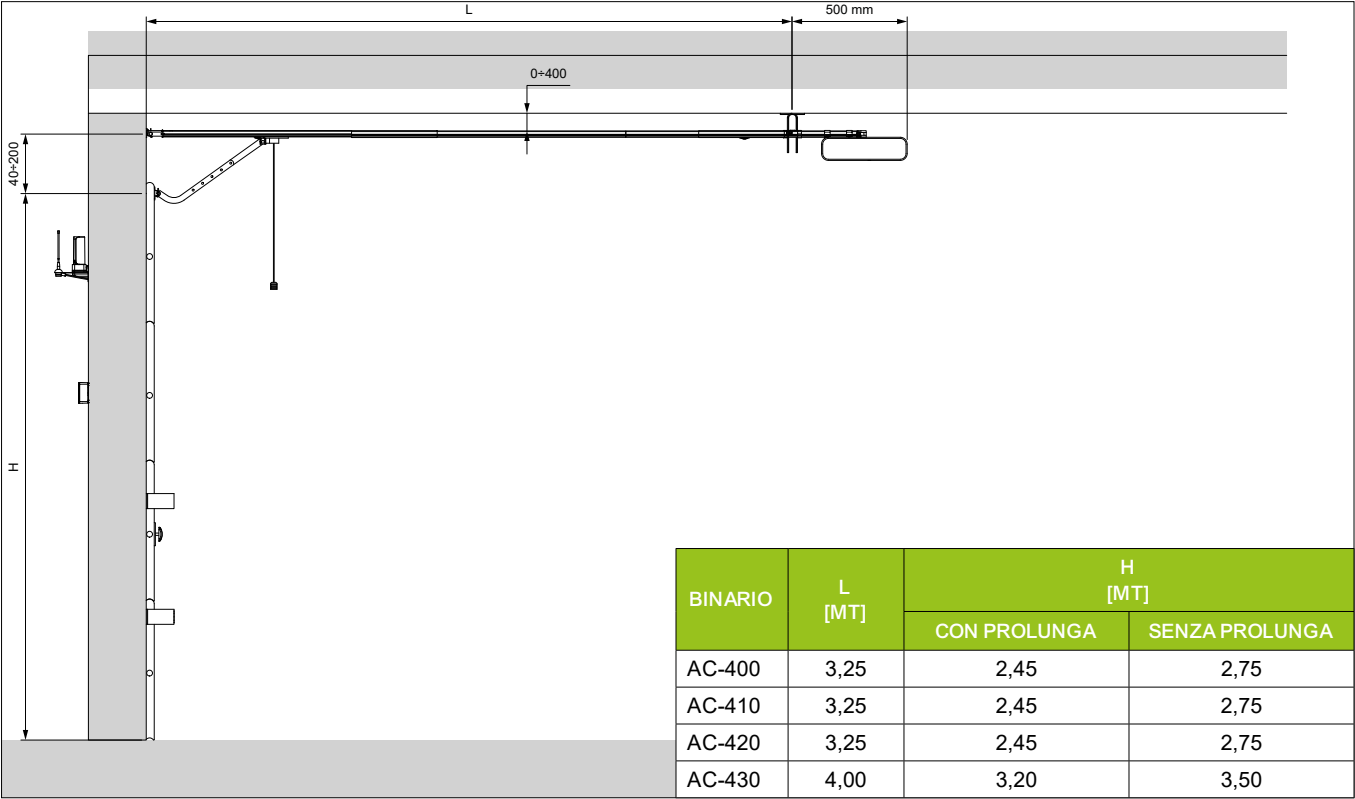


FIG. 2

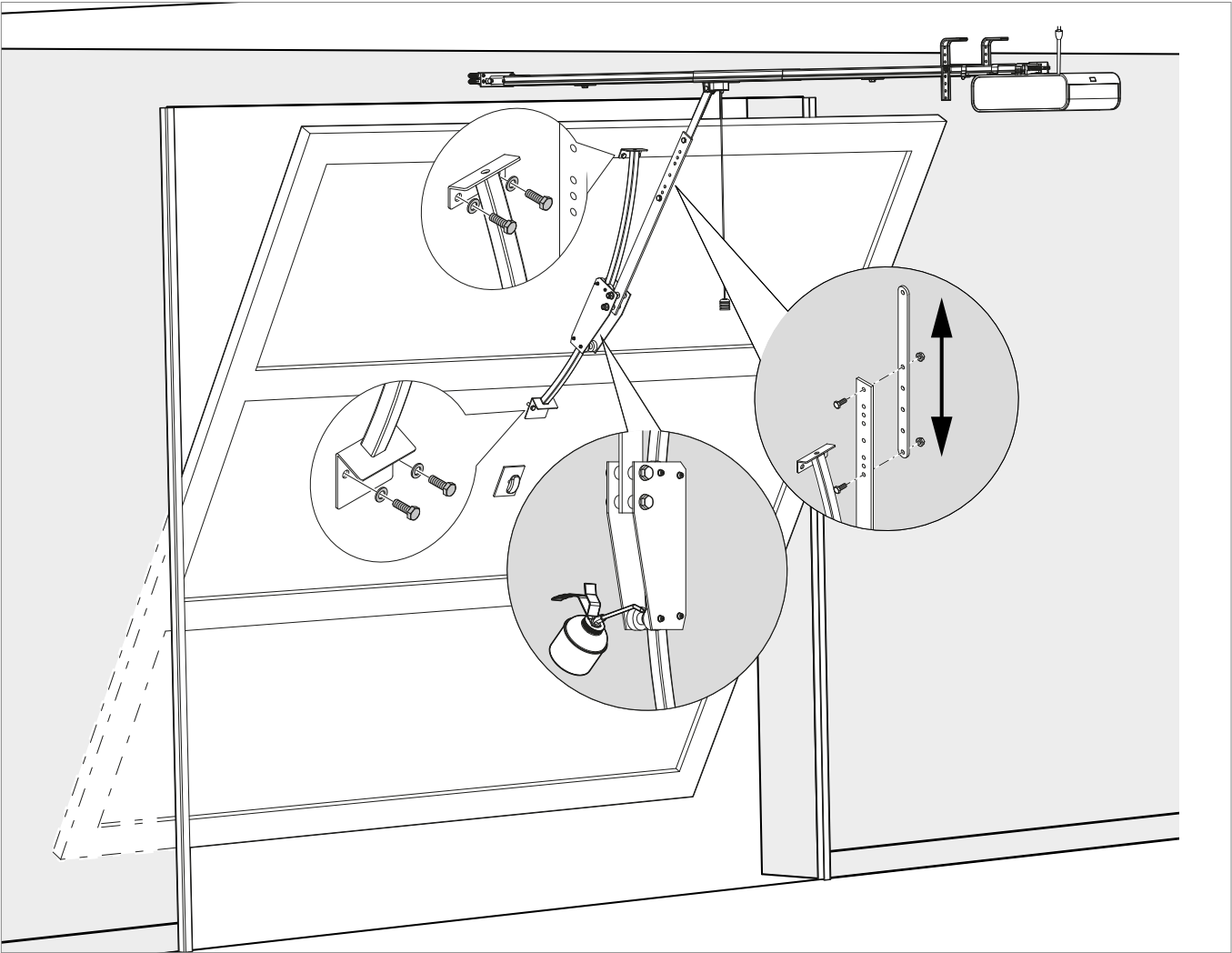


FIG. 3

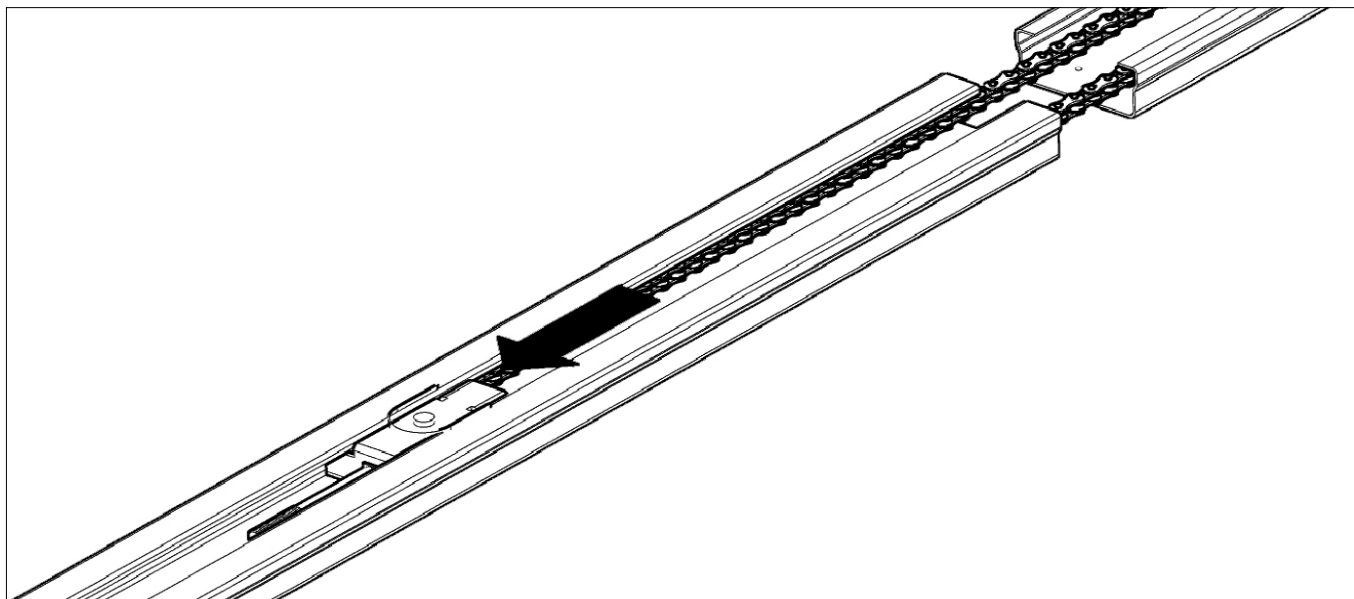


FIG. 4

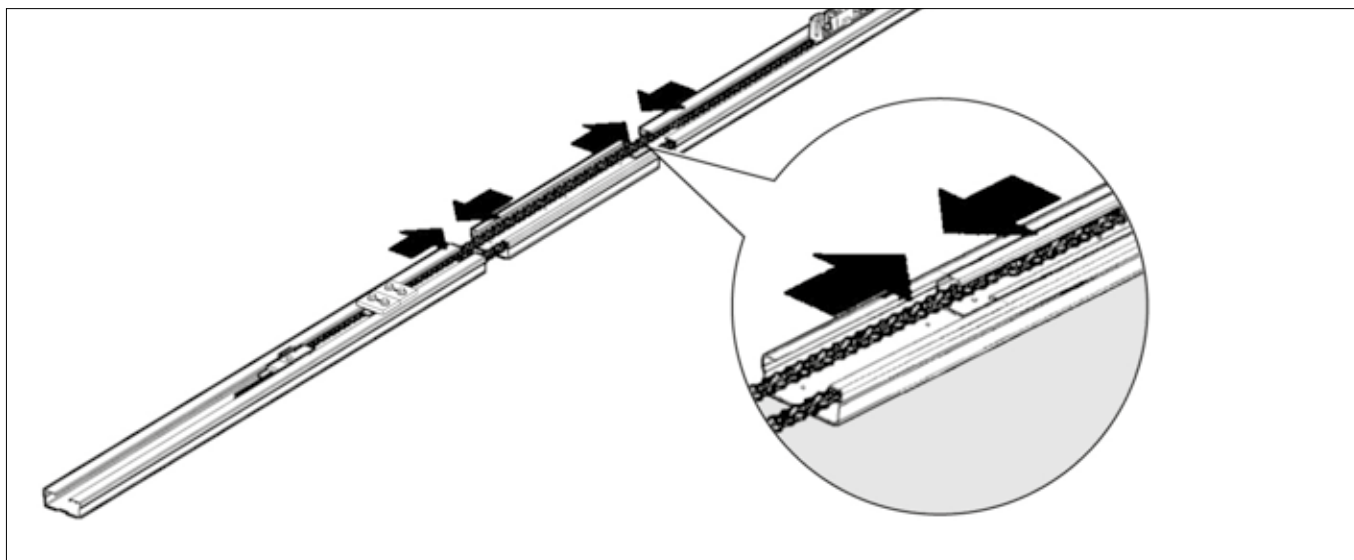


FIG. 5

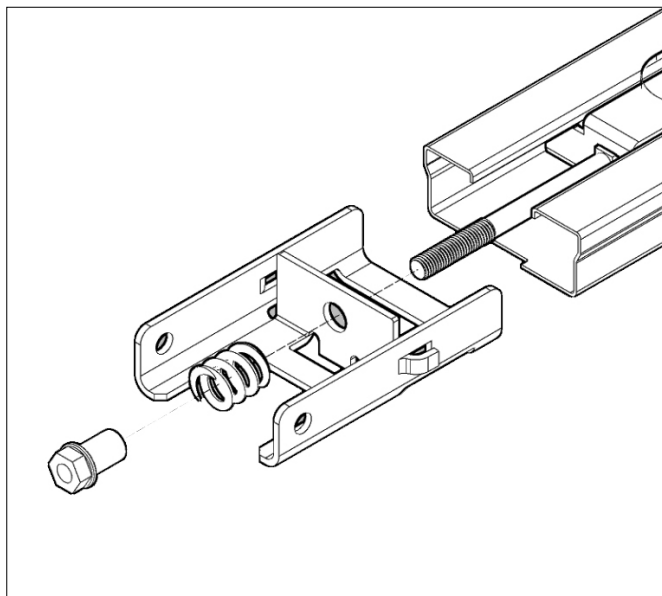


FIG. 6

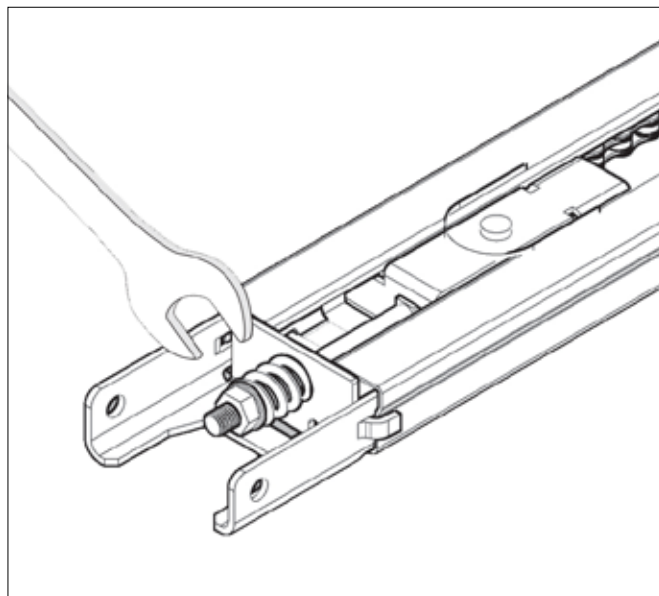


FIG. 7

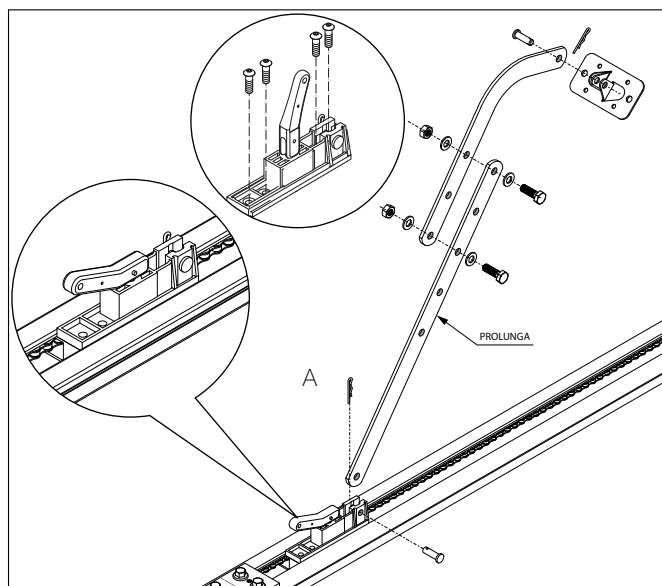


FIG. 8

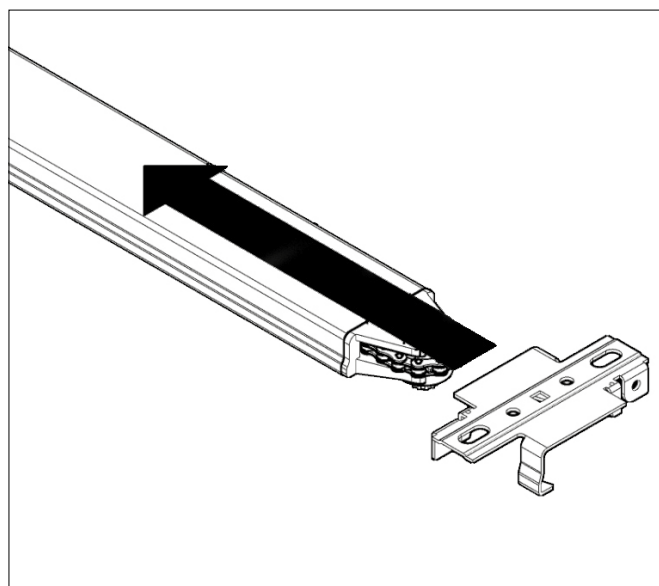


FIG. 9

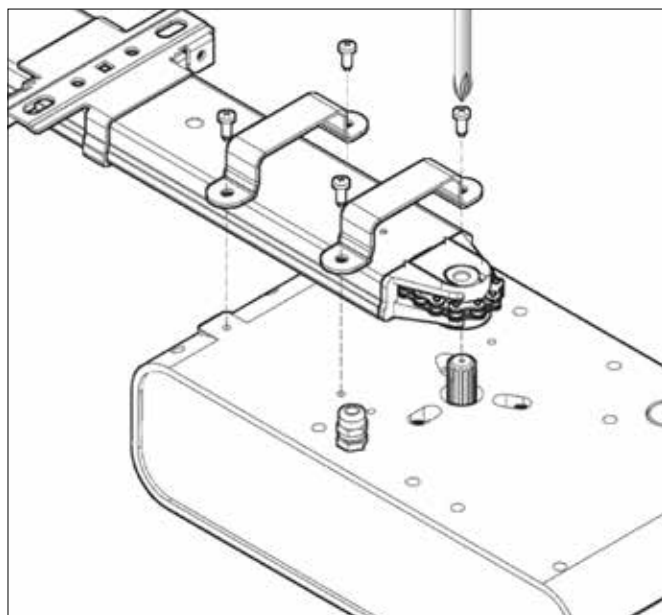


FIG. 10

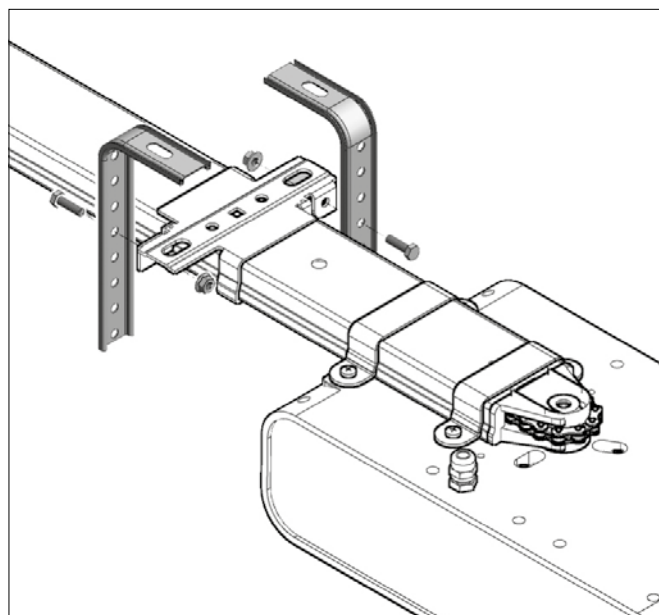


FIG. 11

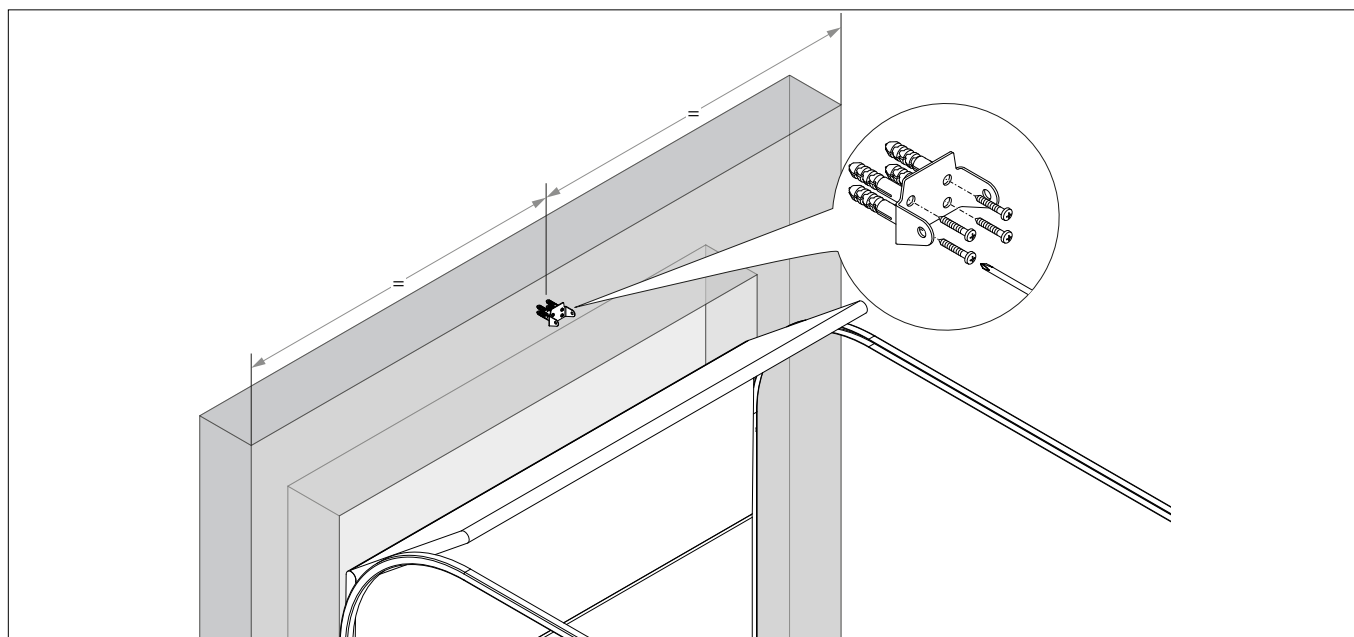


FIG. 12

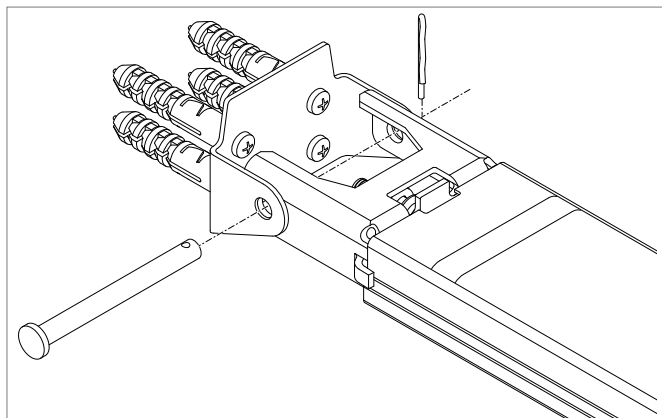


FIG. 14

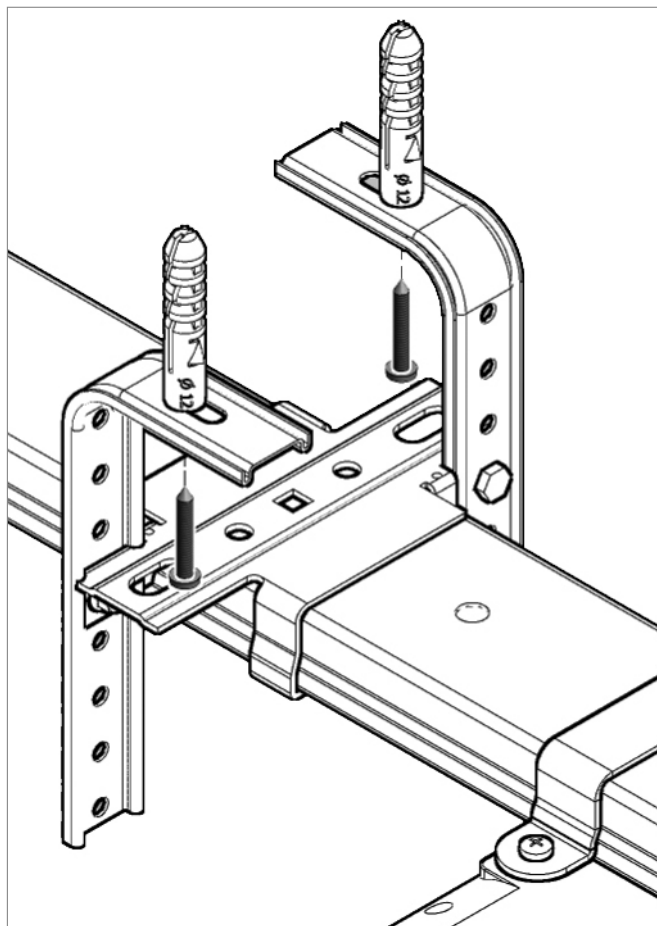


FIG. 13

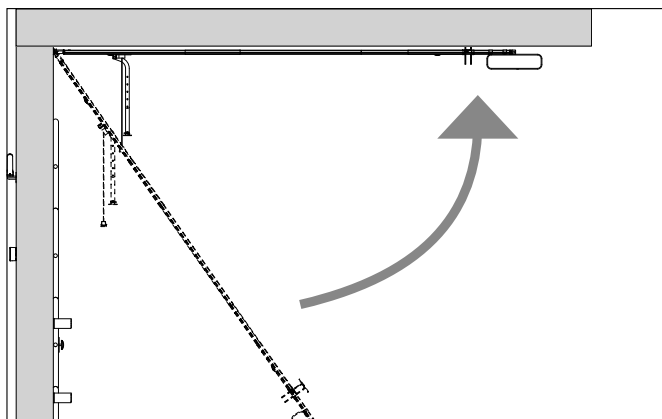


FIG. 15

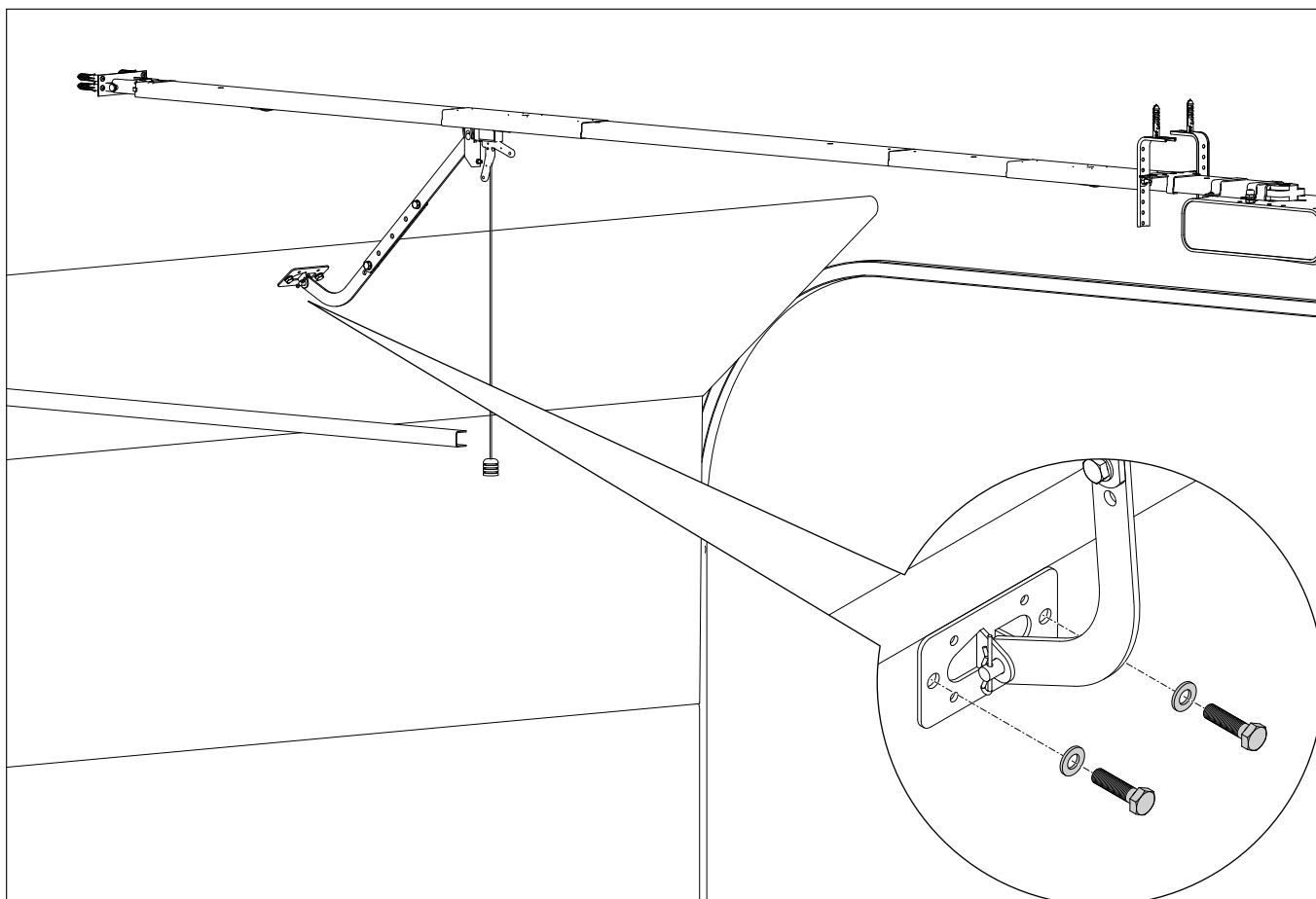


FIG. 16

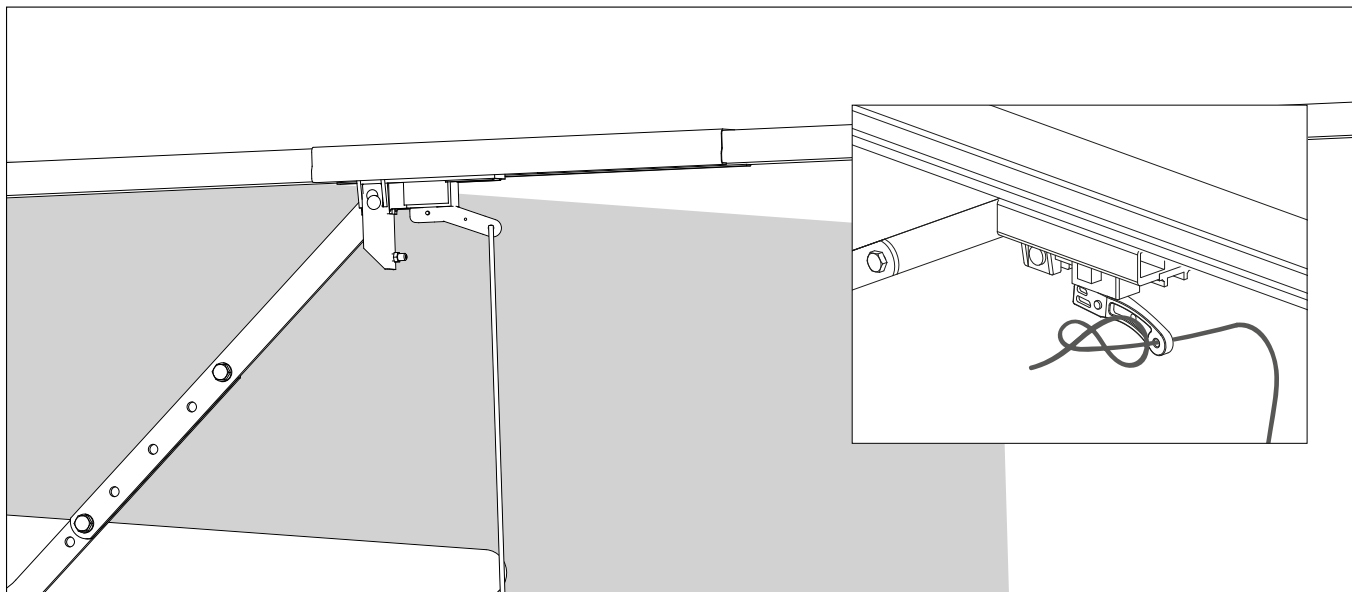


FIG. 17

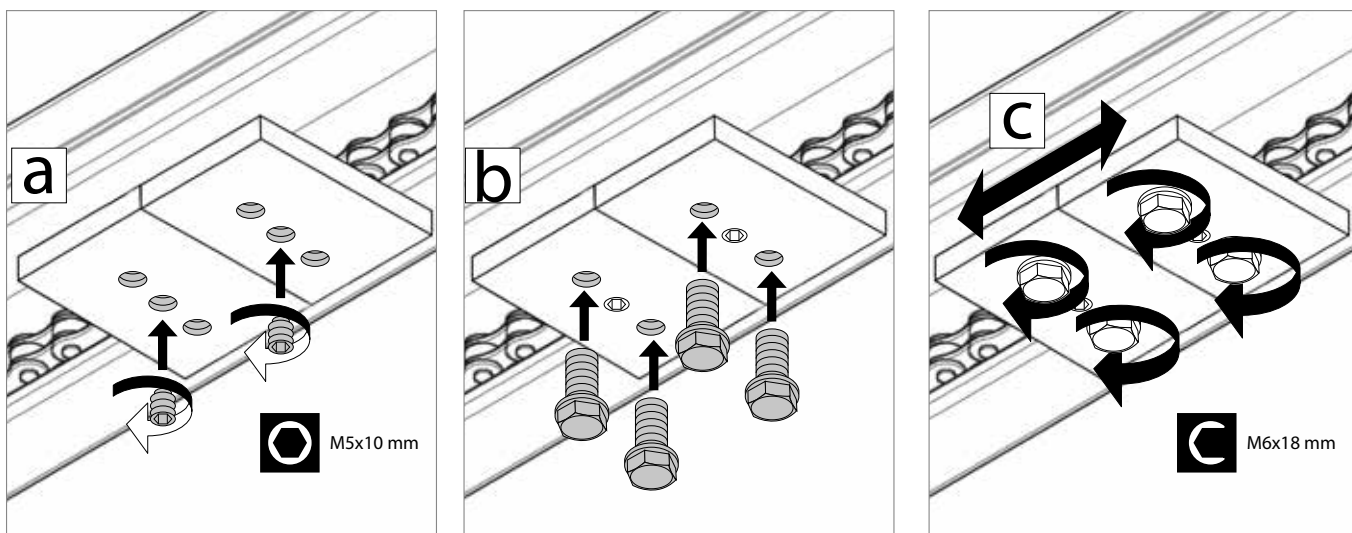


FIG. 18

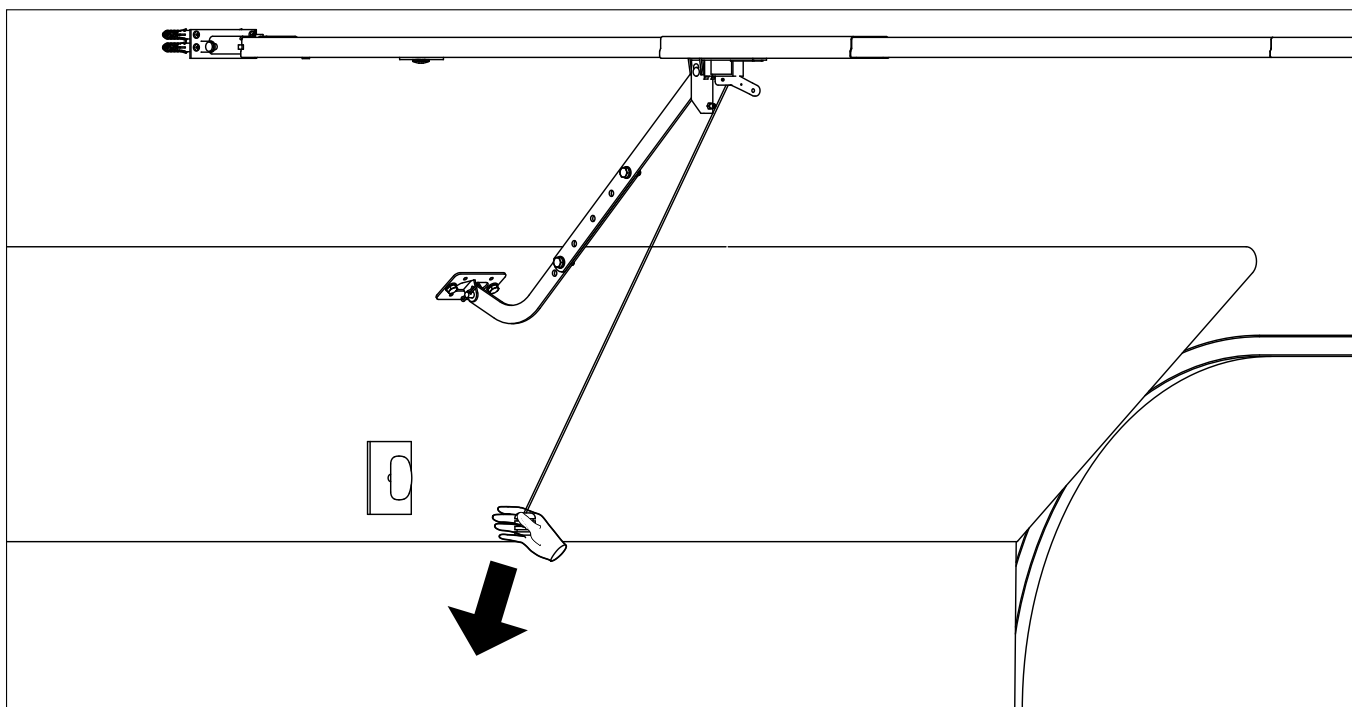


FIG. 19

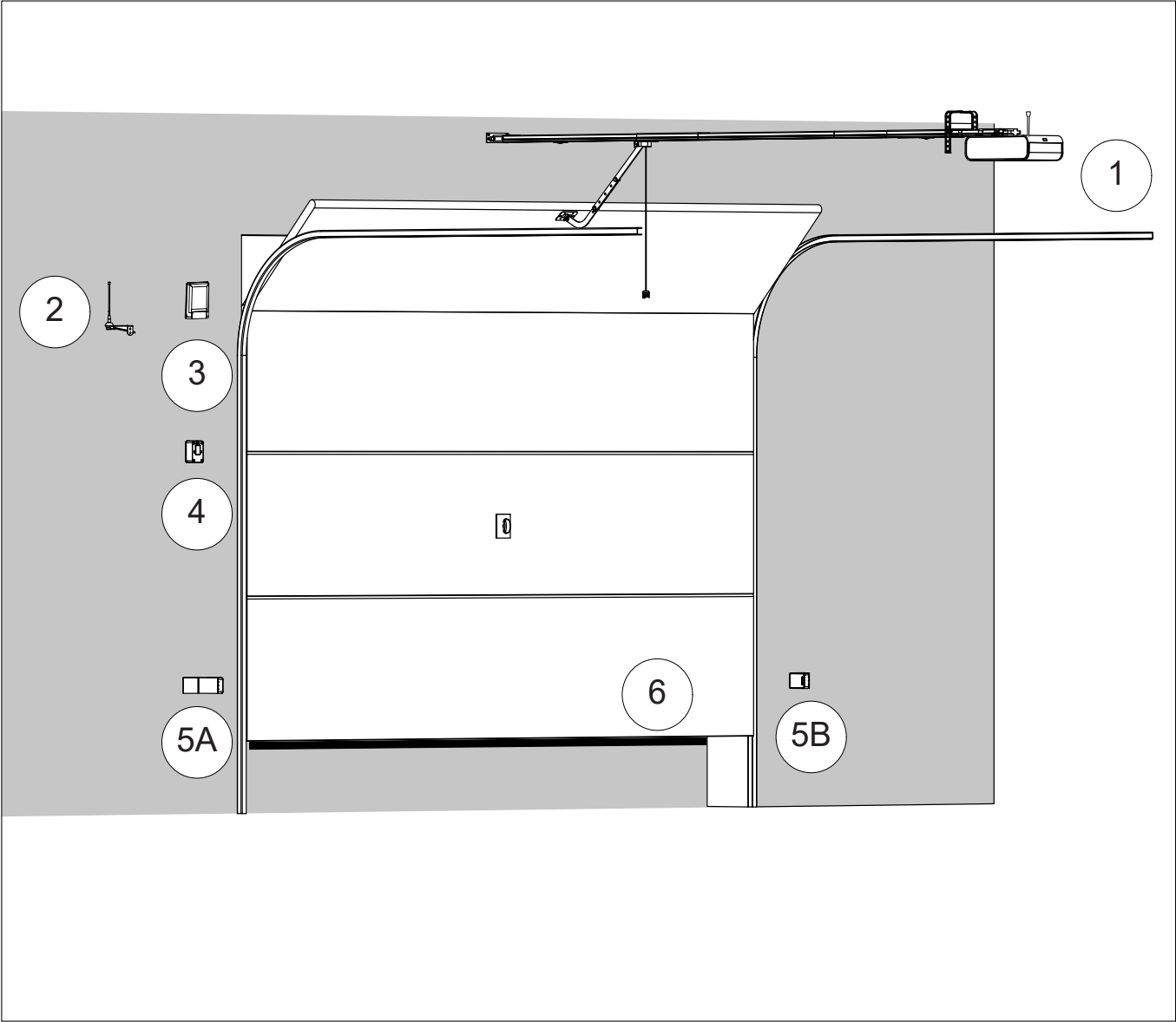


TABELLA CONNESSIONI CAVI - AG01 WIRES CONNECTION TABLE AG01

SECTIONAL DOORS (CU 24V RT)

ID	Description	Cable type	Lenght (1m to 20m)	Lenght (20m to 50m)
1	Main power supply	HAR EN50575 CPR 305/2011	2x1,5 mm ²	2x2,5 mm ²
3	Flashing light		2x0,5 mm ²	2x1,0 mm ²
5A	Photocell TX		2x0,5 mm ²	2x1,0 mm ²
5B	Photocell RX		4x0,5 mm ²	4x1,0 mm ²
4	Key selector	RG58	3x0,5 mm ²	3x1,0 mm ²
2	Antenna		max 20 m	

FIG. 20

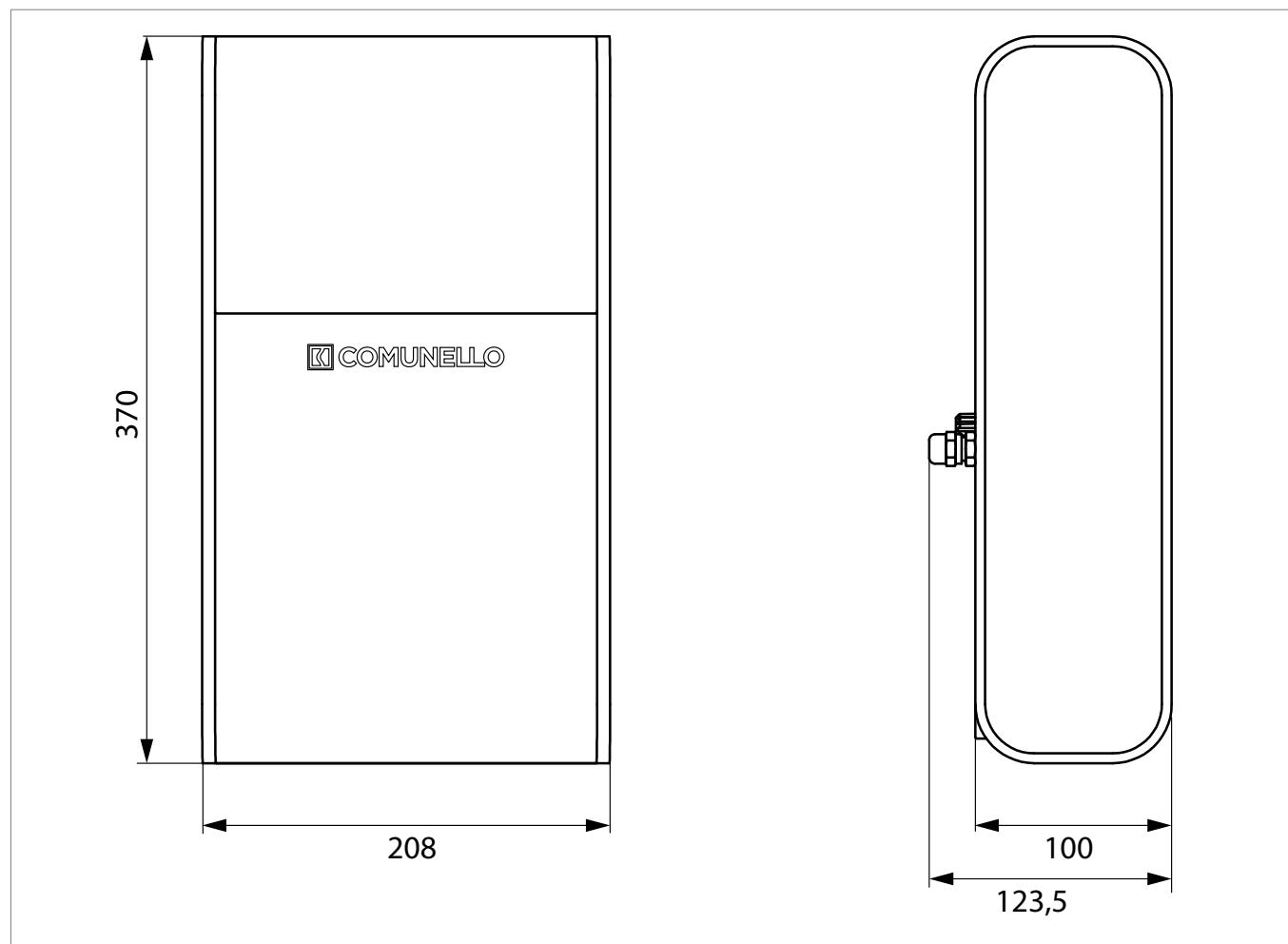
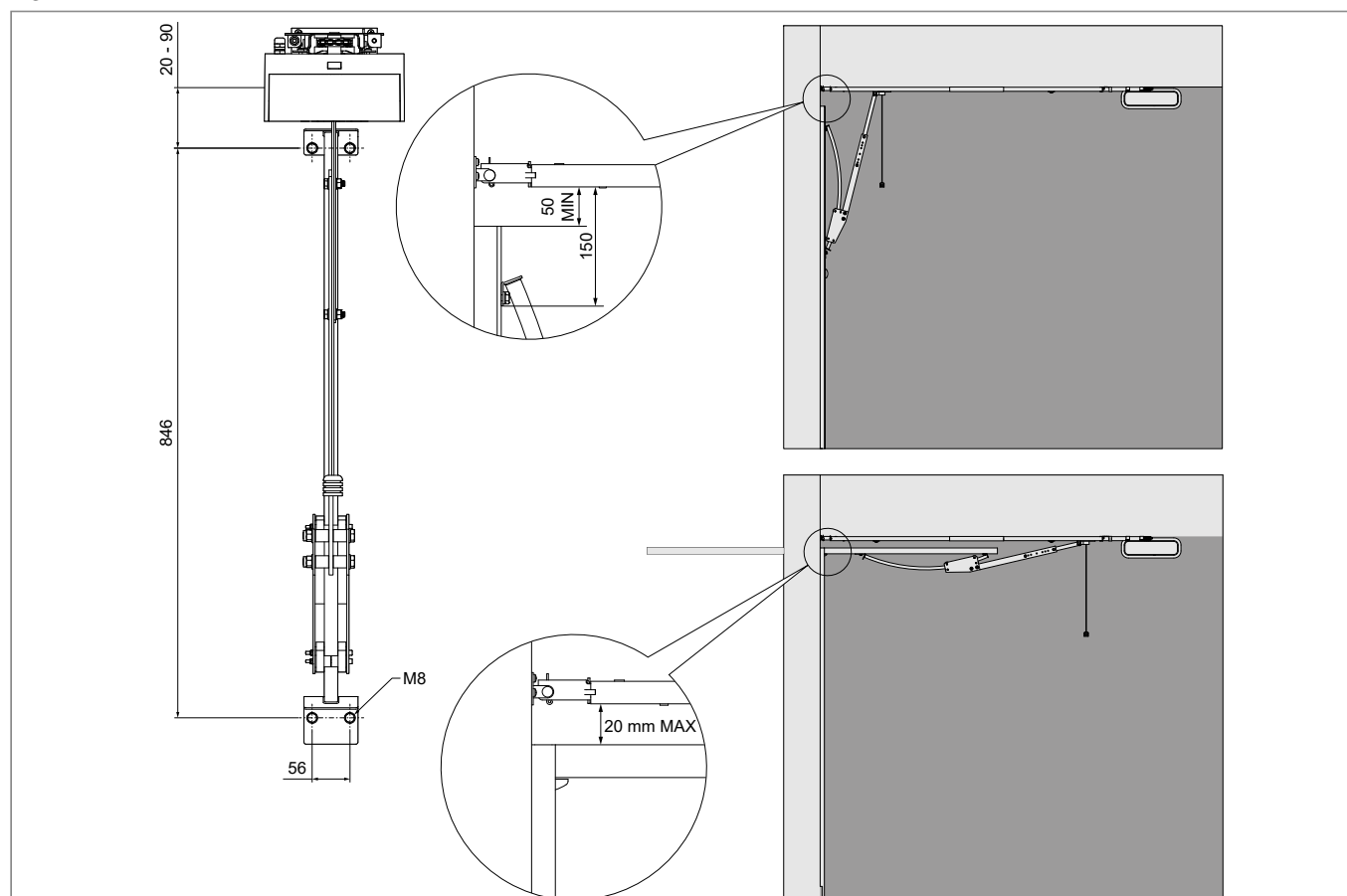


FIG. 21



INSTALLATION AND USER'S MANUAL

RAMPART 600 / 1000

EC DECLARATION OF CONFORMITY:

The undersigned **Mr. Luca Comunello**, representing the following manufacturer,

Fratelli COMUNELLO Spa
Via Cassola 64, 36027 Rosà (VI) – Italy

DECLARES that the equipment described below:

Description: **Electromechanical operator for sectional doors**
Model: **RAMPART 600 - RAMPART 1000**

Is in compliance with the provisions set down in the following directives:

- 2014/53/EU (RED)
- 2011/65/EU (RoHS Directive)

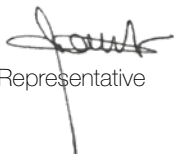
and that all the rules and/or technical specifications shown below have been applied:

EN61000-6-2:2005 + AC:2005
EN61000-6-3:2007 + A1:2011
EN62233 :2008
ETSI EN 300 220-1 V3.1.1
ETSI EN 300 220-2 V3.1.1
ETSI EN 301 489-1 V2.1.1
ETSI EN 301 489-3 V2.1.1 Final Draft
EN60335-1:2012+ AC:2014 + A11:2014
and the following amendments.

and he also declares that it is not allowed to commission the device until the machinery where it will be incorporated or whose it will become a component will have been identified and will have been declared in compliance with the conditions of the 2006/42 EC Directive and with the national legislation that transpose it.

Rosà (VI) – Italia
13-06-2017

Mr. Luca Comunello
Fratelli Comunello Legal Representative



Fratelli Comunello S.p.A.

Company with certified Quality Management System
UNI EN ISO 9001:2015.

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1 GENERAL PRESCRIPTIONS

1.1 SAFETY PRESCRIPTIONS

This installation manual is addressed exclusively to professionally skilled personnel. Read all the instructions carefully before starting the installation procedures. Any operations that are not expressly set down in these instructions are to be considered prohibited; improper use may result in damage to the product and place persons and property at risk. The manufacturer declines all liability for the failure to observe best practices in door construction and for any possible deformation that may occur during use of the product. Store this manual in a safe place for future reference. The design and construction of the devices of which model **RAMPART** is composed and this manual are in full compliance with statutory legislation.

In consideration of potential hazards that may arise during the installation and use of **RAMPART**, the installation procedures must be carried out in full compliance with the applicable laws, standards and regulations; namely:

1.2 INSTALLATION PRESCRIPTIONS

- Before starting the installation procedures make sure you have any additional devices and materials that may be required to complete the automation system with **RAMPART** in consideration of the specific application.
- The automation system must not be used until the door has been made safe.
- Dispose of packaging materials in compliance with local regulations.

1.3 OPERATING PRESCRIPTIONS

- No modifications can be made to any part of the product unless specified in this manual. Unauthorized modification of the product is likely to lead to malfunctions. The manufacturer declines all liability for damage caused by unauthorized modifications.
- The parts of the automation system must never be immersed in water or other liquids. During the installation procedures ensure that no liquids penetrate inside the control unit or other open devices.
- If liquids penetrate any parts of the automation system disconnect the electrical power supply immediately and consult Comunello technical service; the use of **RAMPART** in such conditions may give rise to potentially hazardous situations.
- Keep all parts of the **RAMPART** automation system away from heat sources and open flames; exposure to heat or flames may damage the devices and cause faults, fire, or hazardous situations.
- When the equipment remains unused for a long time, remove the optional battery and store it in a dry place to avoid the risk of leakage of harmful substances.
- Connect the control unit exclusively to an electric power supply line equipped with an efficient protective earth conductor.
- Any operations that require the housing of **RAMPART** to be opened must be performed with the control unit disconnected from the

electrical power supply; if the disconnect device is not clearly visible from where you are working, attach a warning notice to the effect: "WARNING - MAINTENANCE IN PROGRESS".

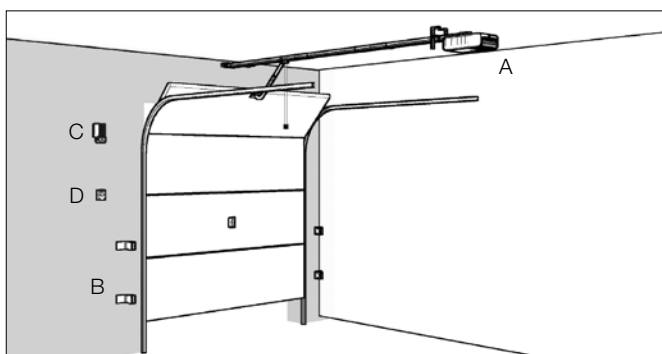
- In the case of tripping of circuit breakers or blowing of fuses, find the fault and remedy it before resetting the circuit breaker or changing the fuse.
- If the fault cannot be remedied using the information given in this manual, consult technical service.
- The device can't be used by children younger than 8 years of age and by people with reduced physical, sensory or mental capabilities, or without experience or the required knowledge if not under surveillance or after having received instructions about the safe use of the device and the inherent risks in it. Children should not play with the device. Cleaning and maintenance should not be carried out by children without surveillance.
- Children can't play with the commands of the automatism. Remote controls should be kept out of reach of children. It is suggested to periodically examine the installation in order to verify the presence of possible damages to the cables, springs and mechanical parts. Automation should not be used if it is necessary a repair intervention.

2 MODELS AND PRODUCTS DESCRIPTION

2.1 DESCRIPTION

Electromechanical operator for spring balanced sectional doors. Operator designed for coupling to tracks with a drive belt or chain, built-in electronic control unit with electronic limit stops (encoder) for 24V $\approx$ motor, plug-in radio receiver: 433.92 MHz narrowband.

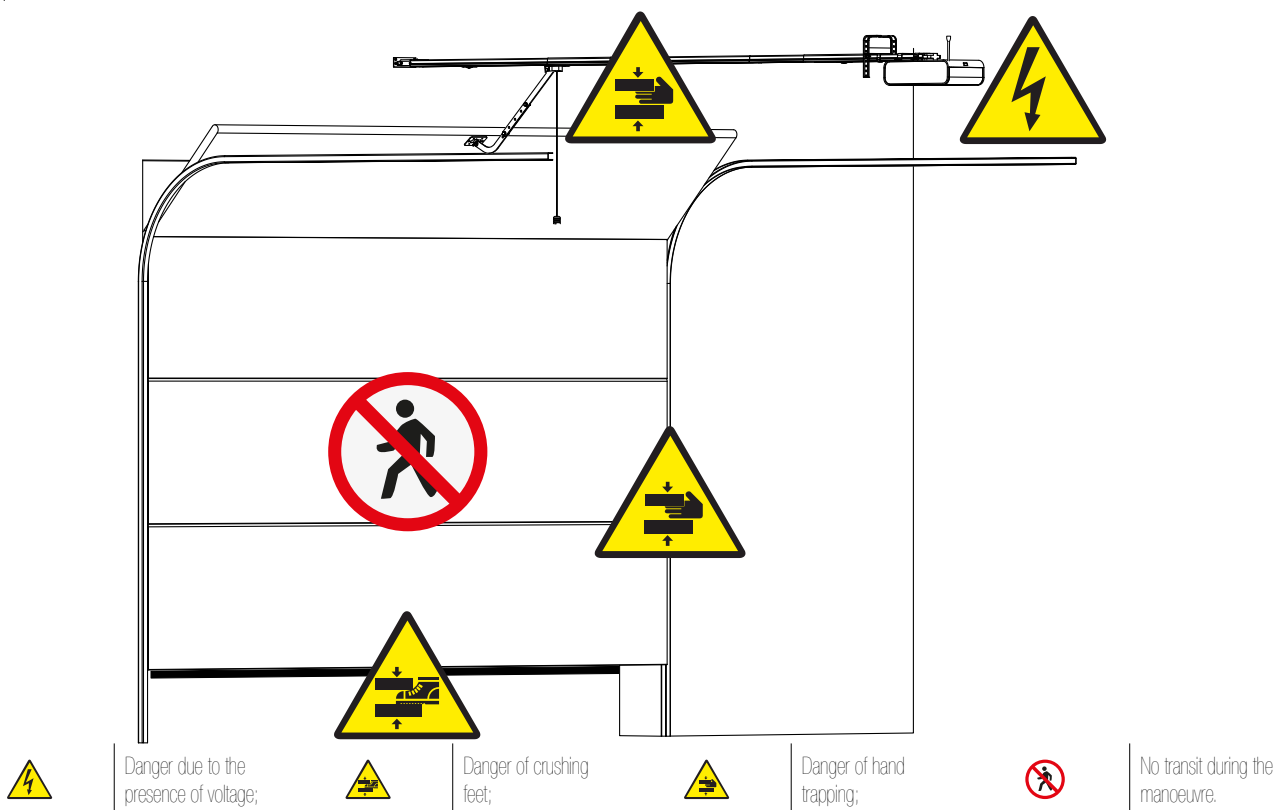
2.2 TYPICAL INSTALLATION



KEY

- A OPERATOR WITH BUILT-IN CONTROL UNIT
B CLOSING PHOTOCELLS
C FLASHING LIGHT
D KEY SELECTOR SWITCH

FIG. 1



3 TECHNICAL SPECIFICATIONS

	RAMPART 600	RAMPART 1000
Power	230V ($\pm 10\%$) / 50Hz	
Maximum pulling effort (force needed to start door move)	600N	1000N
Nominal pulling effort (force needed to maintain door move)	200N	300N
Maximum door leaf weight	110kg	210kg
Maximum opening speed	0,14 meters/seconds	
Speed during nominal effort	0,1 meters/seconds	
Maximum continuous motortime	60 seconds (intermittent operation mode)	
Power consumption during nominal effort	110 W	150 W
Light time (LED-time) after movement stop	30 seconds after opening the door 1 minute after closing the door	
Current consumption of additional (external devices)	24V DC / max. 8W (max 300mA)	
Current consumption of external signal Lamp	24V DC / max. 5W (max 200mA)	
Radiocontrol	433,92MHz / dynamic code 200 remotes max	
Protection type	II	
Protection class	IP20	
Temperature range	-20°C / +50°C	
Drive weight (net)	4,5kg	5,0kg

4 INSTALLATION

4.1 PRELIMINARY CHECKS

For correct operation of the automation system, make sure:

- All the accessories are suitably sized.
- The door does not move autonomously when released in any position.
- The minimum and maximum clearances shown in figure 1 are complied with
- In the case of up-and-over doors ensure that the door panel does not interfere with the chain track. (FIG. 2).
- There are no points of stiffness throughout the entire opening or closing travel of the door.

4.2 APPLICATION LIMITS

Before installing the operator check that its specifications are within the application limits shown in the chapter "Product Technical Specifications".

4.3 INSTALLING THE RAMPART OPERATOR

4.3.1 INSTALLATION

- Arrange the two track sections for assembly. (skip this step if the track is supplied in a single length).
- Slide the drive head with sprocket into the track FIG. 3.
- Join the two track sections using the joint as shown in FIG. 4 (skip this step if the track is supplied in a single length).
- Bring the terminal with sprocket to the end of the track and fit the tensioner with spring to the track (FIG. 5).
- Tighten the supplied nut against the spring until the chain/belt is sufficiently taut (FIG. 6).
- Fit the drive lever and fixing bracket to the door with the guide trolley (lever "A" alone may be used) (FIG. 7).
- Insert the track support bracket over the track (FIG. 8).
- Secure the operator to the track using the screws and brackets supplied (FIG. 9).
- Secure the support brackets to the track holder bracket (FIG.10). The drilled plates can be cut to the required length. In the case of direct ceiling mounting, do not use the supplied brackets.
- Fix the front bracket in a central position above the door. (FIG. 11).
- Assemble the track and front bracket fixed above the door using the supplied pin and cotter (FIG.12).
- Fix the track to the ceiling as shown in FIG. 13 and 14.
- Secure the drive lever to the door using the supplied pin and cotter (FIG.15).
- Tie on the manual release cord (FIG.16).

4.3.2 LIMIT STOP ADJUSTMENT

- Undo the limit stop and bring it to the required position FIG. 17.
- Lock the limit stop in position by tightening the screw.

4.3.3 MANUAL RELEASE

- To release the door and allow it to be opened and closed manually pull the cord tied to the sliding trolley in the guide track. (FIG.18).
- The door can now be moved manually .

4.4 SWING ARM INSTALLATION

- To install the swinging arm, refer to the dimensions shown in FIG.21.

5 ELECTRICAL CONNECTIONS

The operator is supplied with a power cable for connection to the mains switchboard (suitably protected). For connection of accessories (pushbuttons, selectors, photocells...) refer to the following heading (FIG. 19).

- Use only double insulated cables (sheathed cables) during the installation phase for both the connections in AC voltage (230 V) and the ones in SELV safety extreme low voltage (flashing, photocells).
- Double insulation of cables has to be maintained up to the immediate proximity of terminals, unsheathing them exclusively in proximity of terminals and they will have to be bonded by cable ties.
- Use only plastic raceways during the installation phase.
- Use separate raceways for the low voltage wirings (230 V) and for the ones in SELV safety extreme low voltage.
- Safety extreme low voltage conductors have to be physically separated (at least 4 mm up in the air) from the ones in AC voltage, or they have to be adequately isolated with additional insulation with a thickness of at least 1 mm.
- Use FG7 2x1,5 mm² cables or an higher category as power cord.
- Provide upstream of the mains supply of the automation a device that can assure an all-pole disconnection from the electrical grid (with the 3rd category of overvoltage and with an opening distance of the contacts in each pole of at least 3 mm), in compliance with the installation rules and directly connected to the power supply terminals.

5.1 SETTINGS AND CONNECTION OF ACCESSORIES

5.1.1 CONTROL AND ADJUSTMENT PANEL REFERENCES

F1:	230V~ mains power supply fuse (F3.15A250V).
F2:	24V=== operator power supply fuse (F15A250V).
F3:	230V~ mains power protection fuse (F3.15A250V). When present, it replaces fuse F1.
FORCE (TR1):	FORCE control (clockwise for maximum force).
AUTO (TR2):	Auto closing time (time increase in clockwise direction).
P1:	Remotes acquisition button.
P2:	Maximum travel learning button.
S1:	Auto (open-close) or step-by-step mode (open-stop-close) key selector switch.
S2:	CONDOMINIUM FUNCTION selector.
POWER LED:	2W LED courtesy light.
LED1:	Power indicator LED (feedback).
LED2:	Maximum travel programming indicator LED (feedback).
LED3:	Remotes save/delete indicator LED (feedback).

5.1.2 ACCESSORIES CONNECTION TERMINALS (CN1)

- 1: GND (common).
- 2: Open/Close Pushbutton input (NO).
- 3: Stop Pushbutton input (NC).
- 4: Photocells Safety Input (NC).
- 5: 24V ---+ Power Supply for Photocells Safety (max 300mA).
- 6: 24V ---- Power Supply for Photocells Safety.
- 7: 24V ---+ Power Supply for Flashing Light (max 5W).
- 8: 24V ---- Power Supply for Flashing Light.
- 9: Antenna Input (signal pole).
- 10: GND (common).
- 11: 8K2 Safety Input.

5.1.3 MAXIMUM TRAVEL LEARNING (OPENING LIMIT SWITCH)

To set the Opening Limit Switch the operator must be coupled to the door via the track and the sliding runner must be attached to the drive chain or belt.

In addition, at least one pushbutton control must be connected to the system (or a saved remote must be available) and activated security devices (photocells and STOP enter) and N.C. (normally closed)

To acquire the Opening Limit Switch position:

- Power the operator,
- Bring the door to a "nearly closed" position (approximately 500 mm from the closing stop) by means of the pushbutton or button on the remote.
- Press and hold down button P2 on the control panel until LED2 comes on;
- Release button P2 (LED2 starts blinking).
- The door will perform a closing movement until reaching the end stop.
- Once the door is closed (Zero position acquisition) it will start the opening movement at low speed.
- During the opening phase it is possible to decide the starting point of deceleration during opening. To achieve this, press the button of a previously saved radio control, then you can decide the FEA point by pressing the radio control button again.
- Subsequently, the sectional door starts the reclosing phase at an average speed and it is possible to decide the deceleration start point in closing by pressing the button of a radio control,
- The closing ends automatically by pressing the mechanical stop. Alternatively, the entire process can be left to run automatically with the sectional door reaching the limit switches on the mechanical stops (if fitted in the guide track) and still acquire the Opening Limit Switch position (FIG. 17). In this case, a slowdown will be inserted in the last 20 cm both in opening and closing.
- LED2 will stop blinking and then switch off, thereby confirming that the maximum travel position has been saved.

- The Opening Limit Switch acquisition procedure can be repeated, if necessary, only with the operator powered in the stop position.

NOTE: At the end of each closing manoeuvre, the motor releases the tension on the belt to preserve the mechanics.

5.1.4 SAVING / DELETING A REMOTE

To save a remote (Comunello radio transmitter) simply press button P1 on the control panel. Management logic is as follows:

- Channel 1: Press button P1 once, LED3 blinks once. Press the remote button to which you wish to assign the OPEN-CLOSE function.
- Channel 2: Press button P1 twice, LED3 blinks twice. Press the remote button to which you wish to assign the STOP function.
- Reset: Press button P1 four times, LED3 will switch on steady. Press and hold down button P1, LED3 blinks rapidly; keep button P1 pressed until LED3 stops blinking (confirmation that the saved remotes have been deleted).

5.1.5 AUTOMATIC CLOSING

The operator features a selectable Automatic Closing function. To enable or disable Automatic Closing set the Trimmer TR2 as follows:

AUTO CLOSING TIME SELECTION

0% = Auto closing disabled

50% = 3"

75% = 30"

100% = 60"

Note= Increase in clockwise direction

Factory setting: Automatic Closing enabled.(30")

5.1.6 AUTOMATIC OR STEP-BY-STEP MODE

There are two movement control modes available: Automatic Mode (each time the Open-Close button or Remote button is pressed the operator reverses its direction of run) or Step-by-Step (each time the Open-Close button or Remote button is pressed the operator performs the Open-Stop-Close-Stop movement in sequence). Set the required operating mode with selector S1:

S1 ON Step-by-Step Mode enabled (It disables automatic closing if the door has not reached the opening limit switch).

S1 OFF Automatic Mode enabled

5.1.7 CONDOMINIUM FUNCTION

The enabling of the Condominium function means that during the opening movement or during the pause time the control unit will not respond to commands sent by Pushbuttons or remotes.

In contrast, during the closing movement a command sent by the Pushbuttons or the remotes will reverse the direction of movement. This operating mode is invaluable when the automation includes a loop detector.

S2 in ON Condominium Function enabled.

S2 in OFF Condominium Function disabled.

5.1.8 FORCE ADJUSTMENT

The operator Force can be adjusted using trimmer TR1. Turning the trimmer clockwise increases driving force (by turning the trimmer counter clockwise it decrease and the system becomes more sensitive to the obstacle detection). Factory setting: Minimum Force.

5.1.9 8K2 SECURITY DEVICE INPUT (GND-8K2)

The 8K2 safety device input allows the use of 8k2 resistive safety edges which briefly reverse the movement both when opening and closing (it remains in standby until a given input).

ATTENTION: During the programming phase, the control unit checks the type of maximum impedance at the input of terminal 8k2-GND (for ex. N.O., N.C. or 8k2 ohms) and manages the safety device accordingly. At the end of the stroke programming, always check the correct activation of the input of the connected safety device.

5.1.10 PHOTOCCELL INPUT (COM-DS)

The entrance of the photocell safety device manages a photocell (N.C.) which activates during closing, carrying out total inversion of the movement (and preventing closure).

In the closed door position, if the photocell is intercepted, it prevents opening (obstacle detection when closed).

5.1.11 OBSTACLES DETECTION

The engine is equipped with an obstacle detection system that is active during normal travel. Through the use of a digital encoder, when an obstacle in closing interrupts the normal stroke of the sectional door, the motor is blocked when the impact force required by law is exceeded by carrying out the total inversion of the movement. With the possible exception of the STEP-BY-STEP or STOP command, the total reopening maneuver is interrupted and then resumed at the next command. In the event of an obstacle during opening, the actuator performs a partial inversion.

NOTE: the control system has a periodic autoregulation of obstacle intervention threshold profiles In order to make up for the possible progressive loss of balancing of the structure.

5.1.12 COURTESY LIGHT

The operator is equipped with an internal LED courtesy light (2W, steady on) that switches on with each movement and remains on for approximately 30 seconds after the Open (or close) and 60 sec after every closing (total). This function is always on and cannot be overridden.

5.1.13 EXTERNAL FLASHING LIGHT/INDICATOR LIGHT

If an external flashing light or indicator light is required, use the dedicated power supply terminals (Control panel: LAM+_LAM-). These terminals provide a dc output (28V_{DC}) with maximum current draw of approximately 150mA.

NOTE: The output voltage is constant and can therefore be used to power a suitably rated indicator light. If a flashing light is to be connected it must be of the self-flashing type (SWIFT).

5.1.14 KEY SELECTOR SWITCH AND AUXILIARY PUSHBUTTONS

If auxiliary controls are to be wired into the system (e.g. key selector switches) they can be connected in parallel with the dedicated inputs (Open-Close command terminals COM-PP and Stop command terminals COM-STOP).

6 TESTING

Each part of the automation system, e.g. safety edges, photocells, emergency stop, etc. must be tested; follow the procedures shown in the instruction manuals supplied with the devices in question. Perform the following sequence of operations for testing of **RAMPART**:

- Check that all the prescriptions in this manual have been followed scrupulously, with special attention to the matters set down in chapter 1 "General Prescriptions".
- Using the supplied control or stopping devices (key selector switch, pushbuttons or remotes), perform door opening, closing and stopping tests and make sure the door responds correctly to the various commands.
- Check operation of all the system's safety devices (photocells, safety edges, emergency stop, etc.) one by one.

7 MAINTENANCE

Maintenance must be carried out at regular intervals by qualified personnel in compliance with the provisions of statutory legislation and the regulations in force. **RAMPART** must be serviced at least once every 6 months or after 10.000 operating cycles since the last service.

- Disconnect the operator from all power supplies.
- Check all the moving parts and replace any worn parts.
- Check all parts of the automation system for signs of deterioration.
- If the photocells are used as type D anti-collision safety elements and are not class II or III, they must be checked periodically every 6 months by authorized technical personnel in accordance with EN60335-1.

8 SPARE PARTS

Spare parts can be purchased by contacting technical service.

9 DISPOSAL

At the end of its useful life the automation system must be dismantled by qualified personnel and the materials must be recycled or disposed of in compliance with the local legislation in force.

10 WARRANTY

- 1 - This warranty supplied as part of commercial dealings or the sale of goods for professional use, is limited to the repair or replacement of Product parts recognised by FRATELLI COMUNELLO SPA as defective with equivalent repaired Products (hereinafter "Standard Warranty"). The warranty does not cover the costs incurred by the repair and replacement of materials (for example, cost of labour, material rental, etc.).
- 2 - The provisions contained in articles 1490-1495 of the Italian Civil Code do not apply.
- 3 - FRATELLI COMUNELLO SPA warrants that the Products are in good working order within the limits indicated in the previous sub point 1. Unless otherwise agreed, the Standard Warranty is valid for a period of 24 (twenty-four) months from the date of production, indicated on the Products themselves. The Warranty is valid and binding for COMUNELLO only if the product is correctly assembled and serviced in accordance with the rules of installation and safety indicated in the documentation provided by COMUNELLO or in any case available on the website <http://www.comunello.com/it/corporate/condizioni-general/>
- 4 - The warranty does not cover: faults or damage due to transportation; faults or damage caused by defects in the electric supply system installed at the premises of the purchaser of the Product and/or negligence, inadequacy or improper use of that system; faults or damage resulting from tampering on the part of unauthorised personnel or as a result of incorrect use/installation (in this regard, we recommend that the system be serviced at least every six months) or utilisation of non-original spare parts; defects caused by chemical agents and/or atmospheric conditions.
The warranty does not cover the cost of consumables, in any case COMUNELLO accrues credit for the intervention carried out at the client premises, in the event the latter proves useless because the warranty was no longer valid or because the client had used the COMUNELLO product in a negligent, careless or inexperienced manner, such that correct use of the product would have prevented the need for installation.
- 5 - Implementation of warranty: unless otherwise agreed, the right to claim under the Standard Warranty is exercised by submitting a copy of the purchase document (tax invoice) to COMUNELLO. The Client must report the defect to COMUNELLO within a period of 30 (thirty) days from its discovery.
Action must be taken within the statutory limitation period of 6 (six) months from the date of discovery. The parts of the Product for which a claim is made under the Standard Warranty must be sent by the Client to FRATELLI COMUNELLO SPA, Via Cassola 64, 36027 Rosà (VI) – Italy.
- 6 - The Client cannot claim compensation for consequential damage, loss of profit, loss of production and in any case cannot claim for sums higher than the value of the supplied components or Products. All expenses relating to the transportation of Products to be repaired or replaced, even if covered by the Standard Warranty, shall be borne by the Client.
- 7 - No external operations carried out by COMUNELLO technical personnel is covered by the Standard Warranty.
- 8 - Specific modifications to the terms of the Standard Warranty described herein may be established by the parties in their sales agreements.
- 9 - In case of legal disputes of any nature, Italian law shall apply and the competent forum shall be the Court of Vicenza.