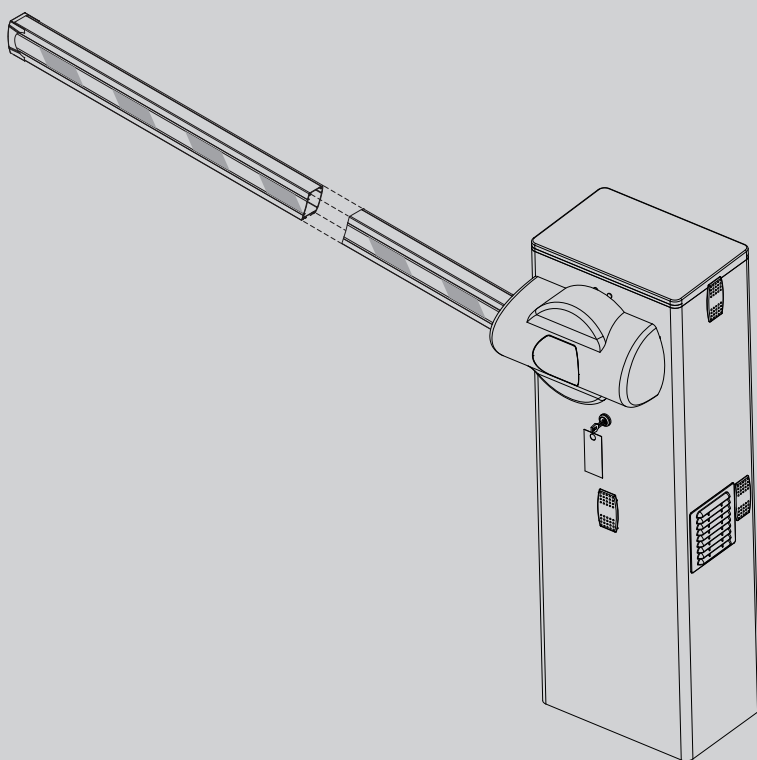




AUTOMATISMO Elettromeccanico per Barriera Veicolare
 ELECTROMECHANICAL CONTROL DEVICE FOR VEHICULAR BARRIERS
 AUTOMATISME ELECTROMECHANIQUE POUR BARRIERE POUR VÉHICULES
 ELEKTROMECHANISCHER ANTRIEB FÜR FAHRZEUGSCHRANKEN
 AUTOMATISMOS ELECTROMECHANICOS PARA BARRERAS VEHICULAR
 ELEKTROMECHANISCH AUTOMATISERINGSSYSTEEM VOOR SLAGBOOM



ISTRUZIONI D'USO E DI INSTALLAZIONE
 INSTALLATION AND USER'S MANUAL
 INSTRUCTIONS D'UTILISATION ET D'INSTALLATION
 INSTALLATIONS- UND GEBRAUCHSANLEITUNG
 INSTRUCCIONES DE USO Y DE INSTALACION
 GEBRUIKS- EN INSTALLATIEAANWIJZINGEN

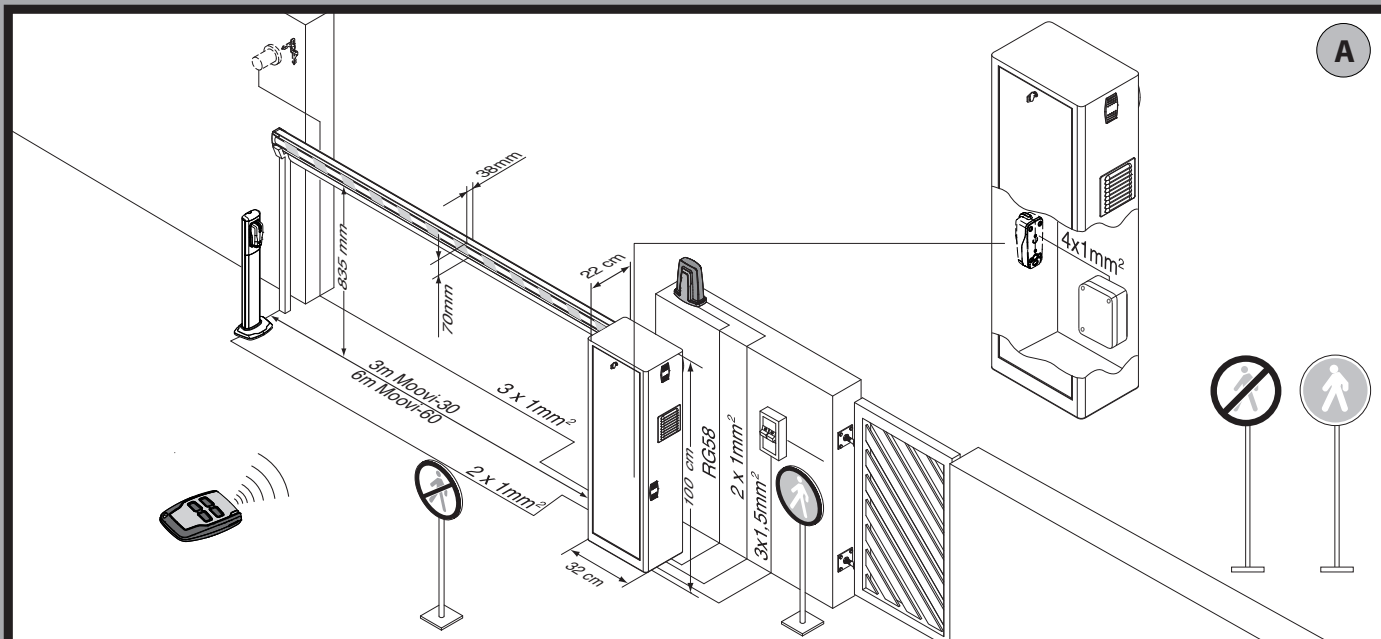
MOOVI 30-60 - ALPHA BOM

Bft

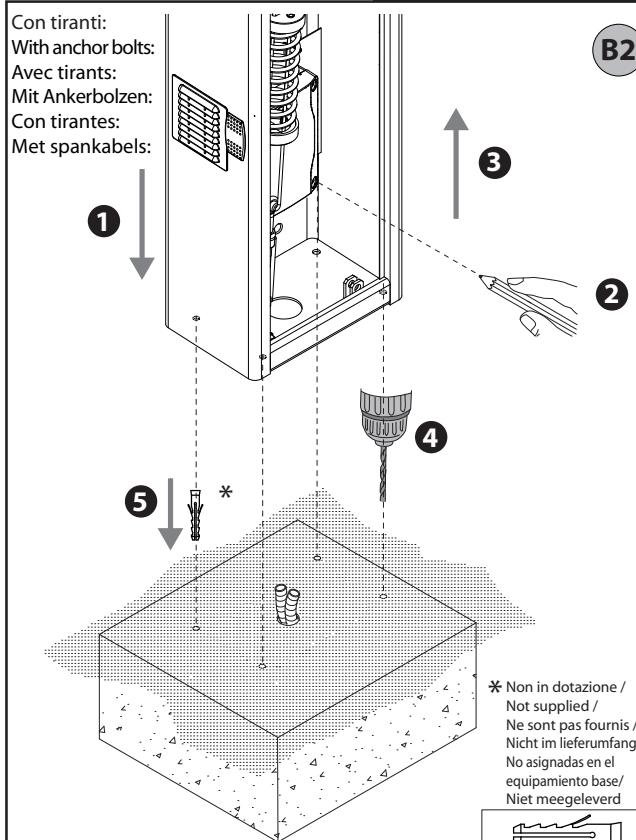
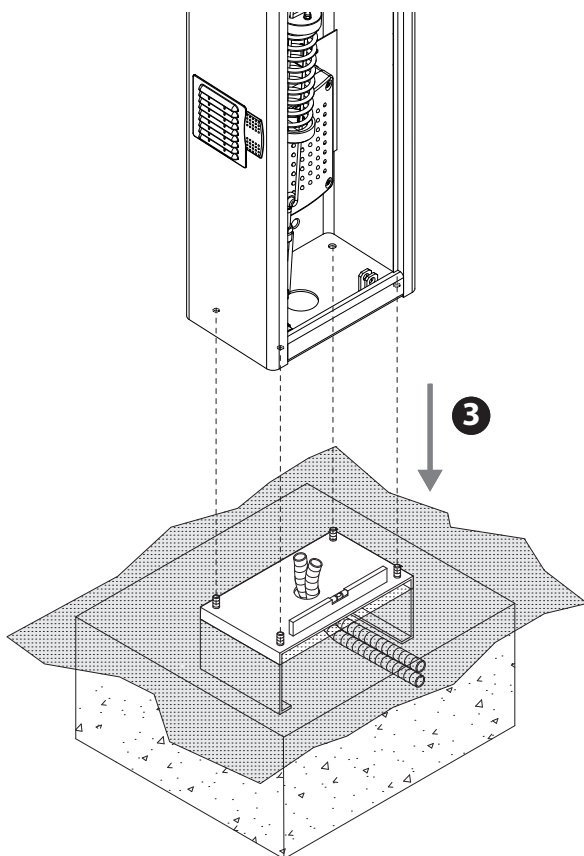
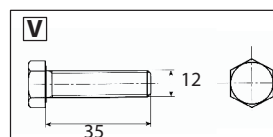
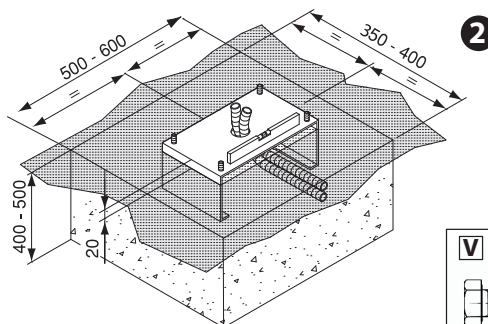
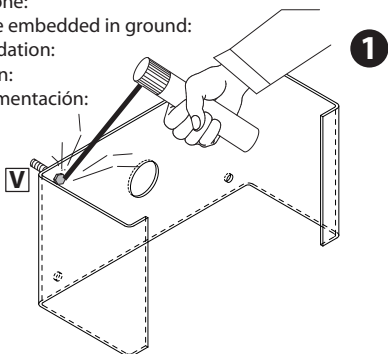


AZIENDA CON SISTEMA DI GESTIONE
 INTEGRATO CERTIFICATO DA DNV
 = UNI EN ISO 9001:2008 =
 UNI EN ISO 14001:2004

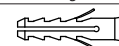
INSTALLAZIONE VELOCE-QUICK INSTALLATION-INSTALLATION RAPIDE SCHNELLINSTALLATION-INSTALACIÓN RÁPIDA - SNELLE INSTALLATIE



Con scavo di fondazione:
 With foundation plate embedded in ground:
 Avec tranchée de fondation:
 Mit Fundamentgraben:
 Con excavación de cimentación:
 Met uitgraving:



* Non in dotazione /
 Not supplied /
 Ne sont pas fournis /
 Nicht im Lieferumfang /
 No asignadas en el
 equipamiento base/
 Niet meegeleverd



ITALIANO

ENGLISH

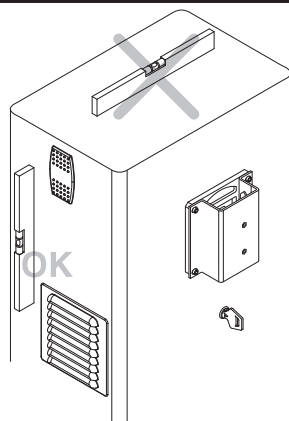
FRANÇAIS

DEUTSCH

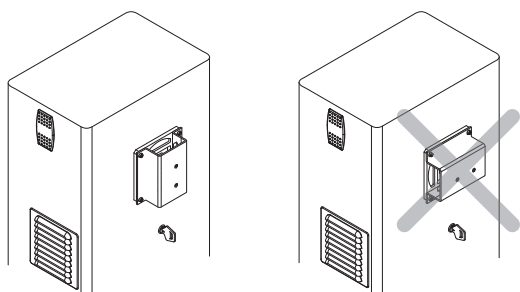
ESPAÑOL

NEDERLANDS

C



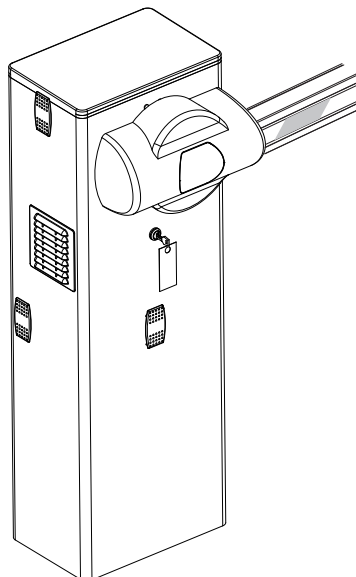
Montaggio Asta, Assembly of boom, Montage de la barre,
Montage der Stange, Montaje mástil, Montage stang.



Assicurarsi che la molla non sia in tensione.
Make sure the spring is not under tension.
Vérifiez si le ressort n'est pas en tension.
Sicherstellen, dass die Feder nicht gespannt.
Asegurarse de que el muelle no esté tensado.
Controleren of de veer niet onder spanning staat.

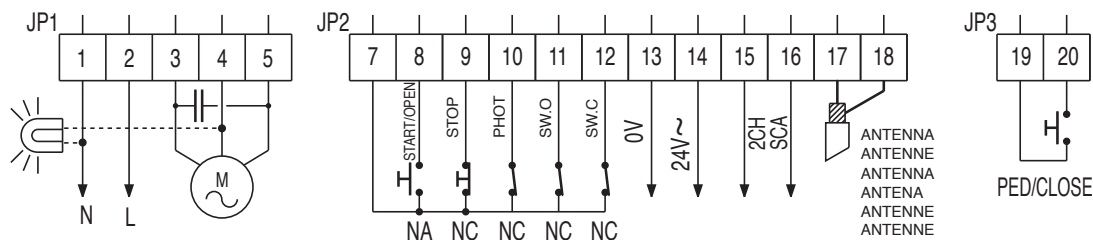
D

Per montaggio aste fare riferimento ai manuali
See manuals for boom assembly
Pour monter les barres consultez les manuels
Bitte nehmen Sie für die Montage der Stange auf die Handbücher Bezug
Para montar los mástiles consultar los manuales
Raadpleeg de handleidingen voor de montage van de bomen



F

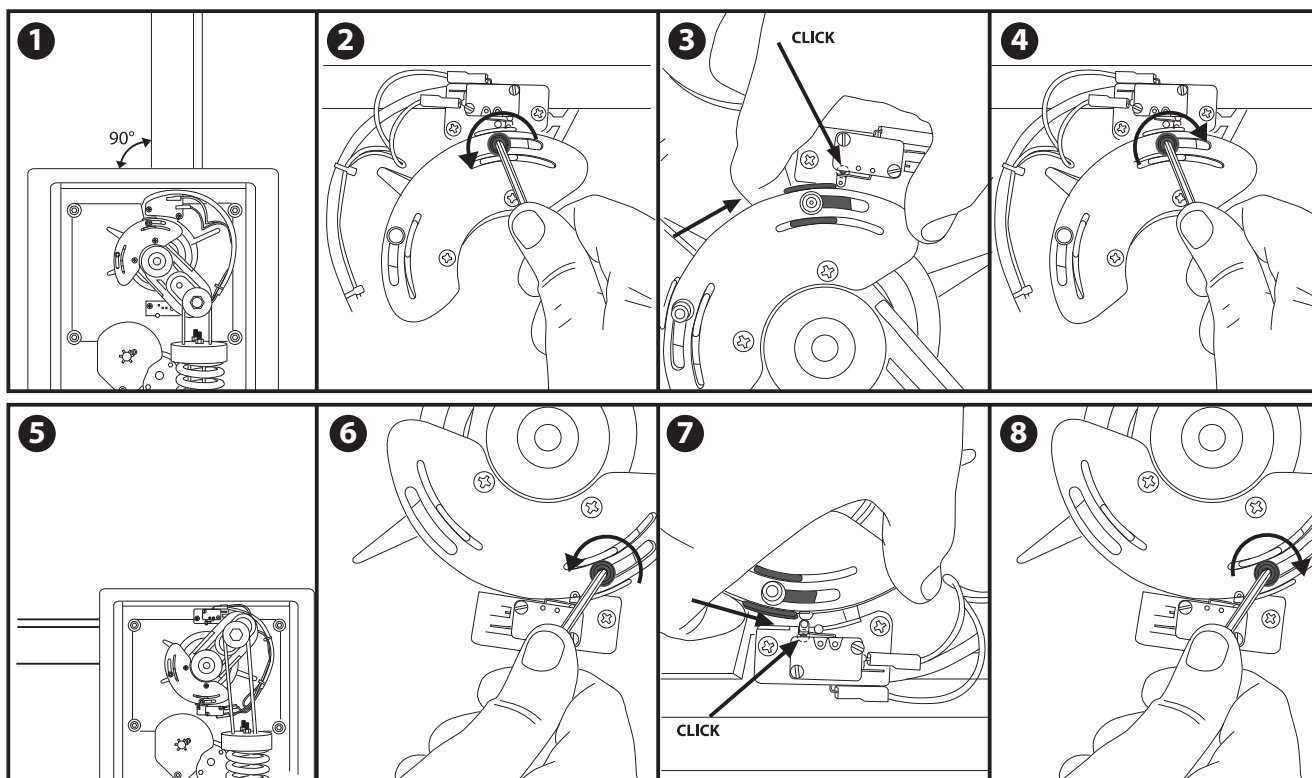
Collegamenti morsetteria, Terminal board wiring, Branchements sur le bornier, Anschlüsse Klemmleiste,
Conexiones tablero de bornes, Aansluitingen aansluitkast.



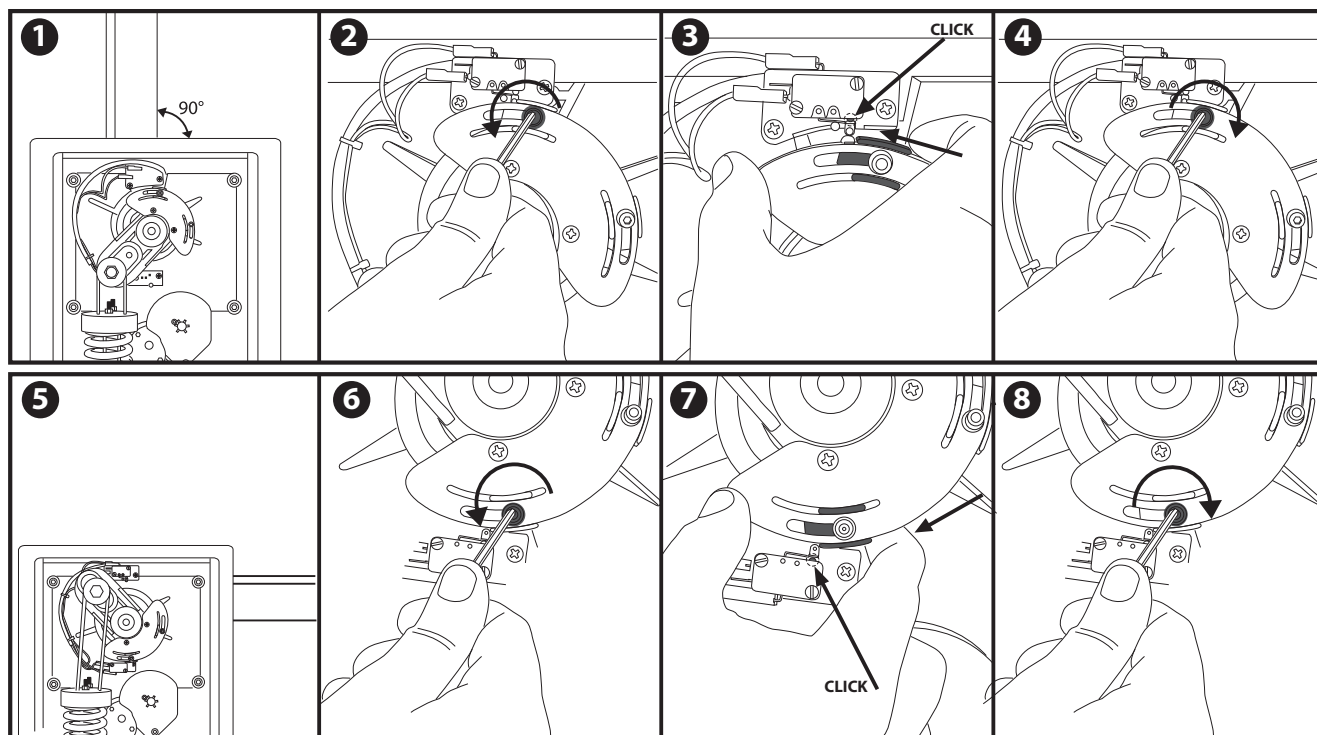
REGOLAZIONE FINECORSO, ADJUSTING THE LIMIT SWITCHES, RÉGLAGE DE LA FIN DE COURSE, EINSTELLUNG DER ENDSCHALTER, REGULACIÓN DE LOS FINALES DE CARRERA, REGLING EINDAANSLAGEN

G

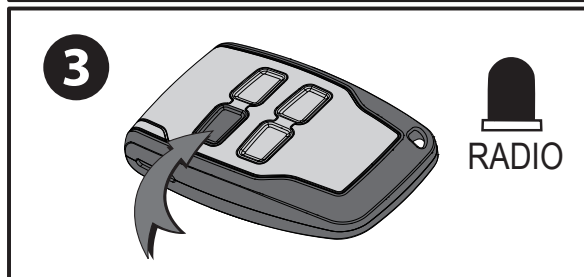
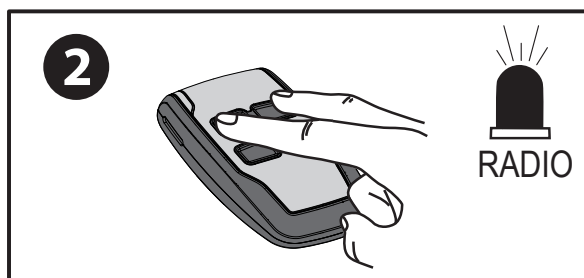
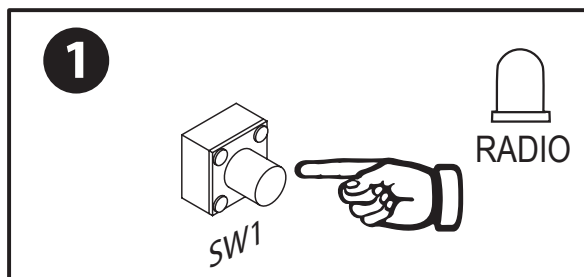
Destra / Right / Droite / Rechts / Derecha / Direita



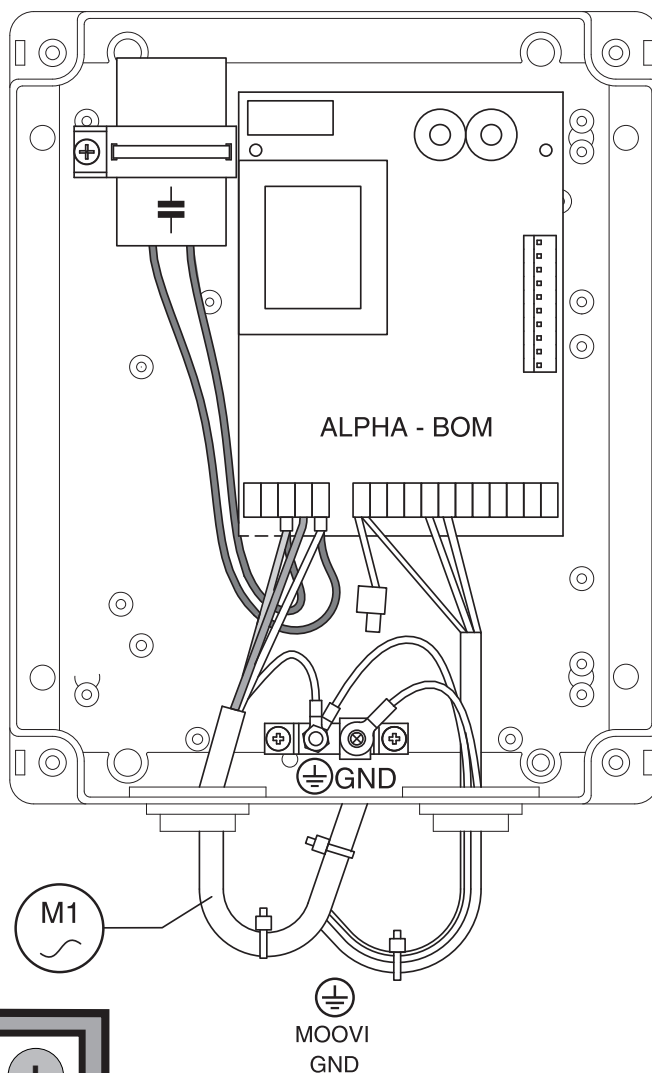
Sinistra / Left / Gauche / Links / Izquierda / Esquerda



**MEMORIZZAZIONE RADIOCOMANDO (START),
MEMORIZING REMOTE CONTROLS (START),
MÉMOIRISATION DE LA RADIOCOMMANDE (START),
ABSPEICHERUNG DER FERNBEDIENUNG (START),
MEMORIZACIÓN DEL RADIOMANDO (START),
MEMORISEREN AFSTANDSBEDIENING (START).**

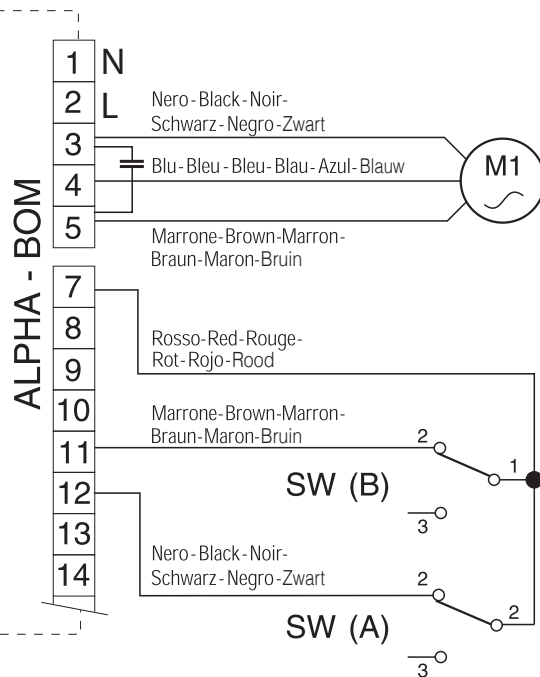
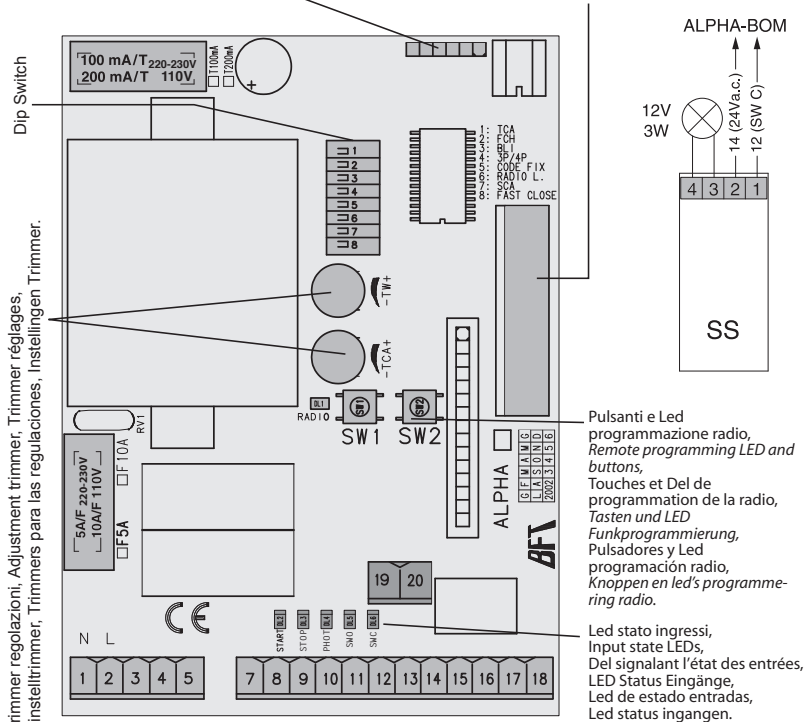


**Cablaggio generale, General Wiring,
Câblage général, Allgemeine Verkabelung,
Cableado General, Algemene Bekabeling.**



Connettore programmatore palmare,
Palmtop programmer connector,
Connecteur programmeur de poche,
Steckverbinder Palmtop-Programmierer
Conector del programador de bolsillo,
Connector programmeerbare palmtp.

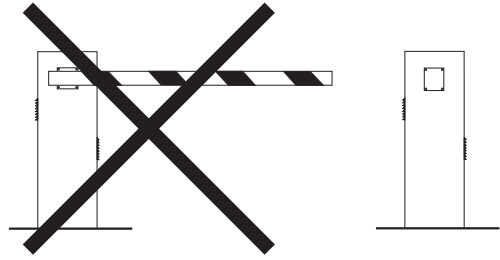
Connettore ricevente radio opzionale,
Optional radio-receiver connector,
Connecteur facultatif pour récepteur radio,
Steckverbinding zusätzlicher Funkempfänger,
Conector receptor radio opcional,
Optionele connector radio-ontvanger.



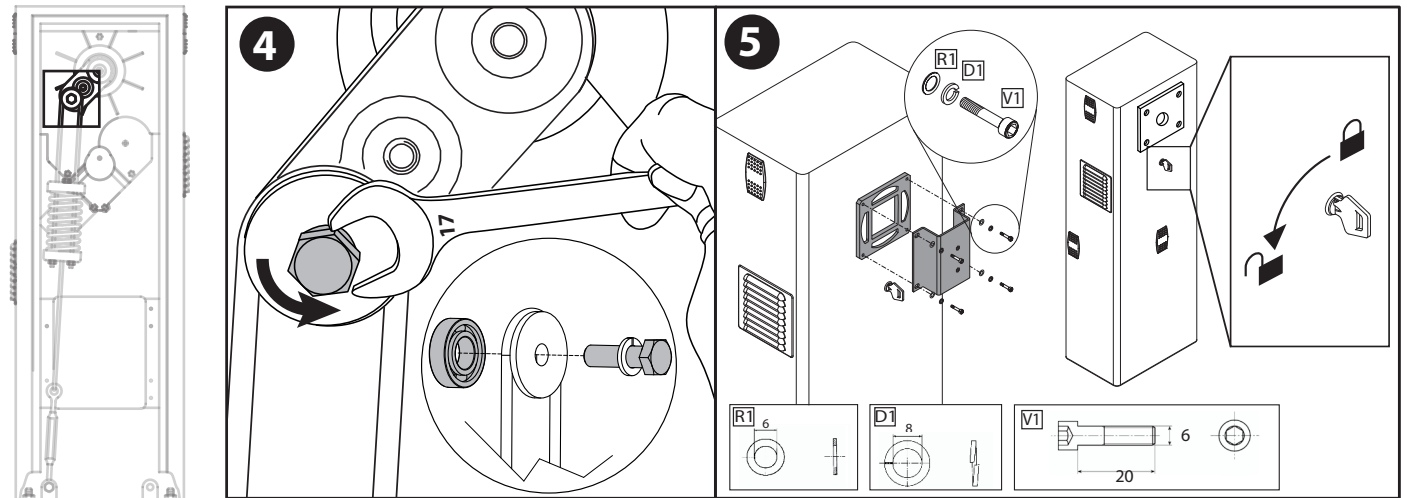
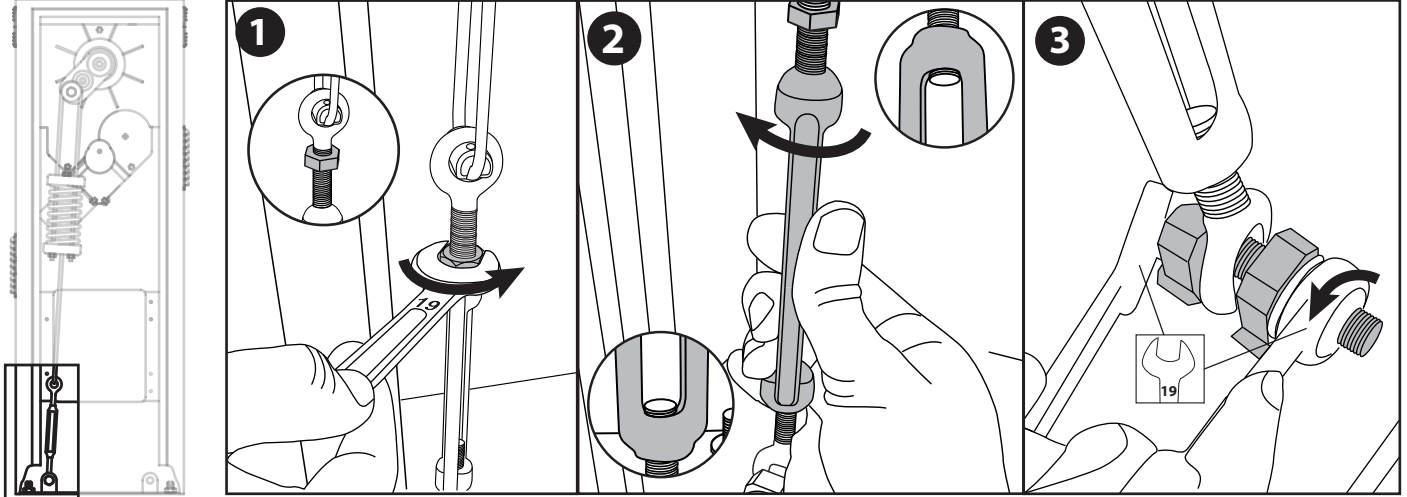
MONTAGGIO ASTA DESTRA, ASSEMBLY OF RIGHT BOOM, MONTAGE DE LA BARRE DROITE, RECHTE MONTAGE DER STANGE, MONTAJE MÁSTIL DERECHO, MONTAGE RECHTERSTANG.

AA

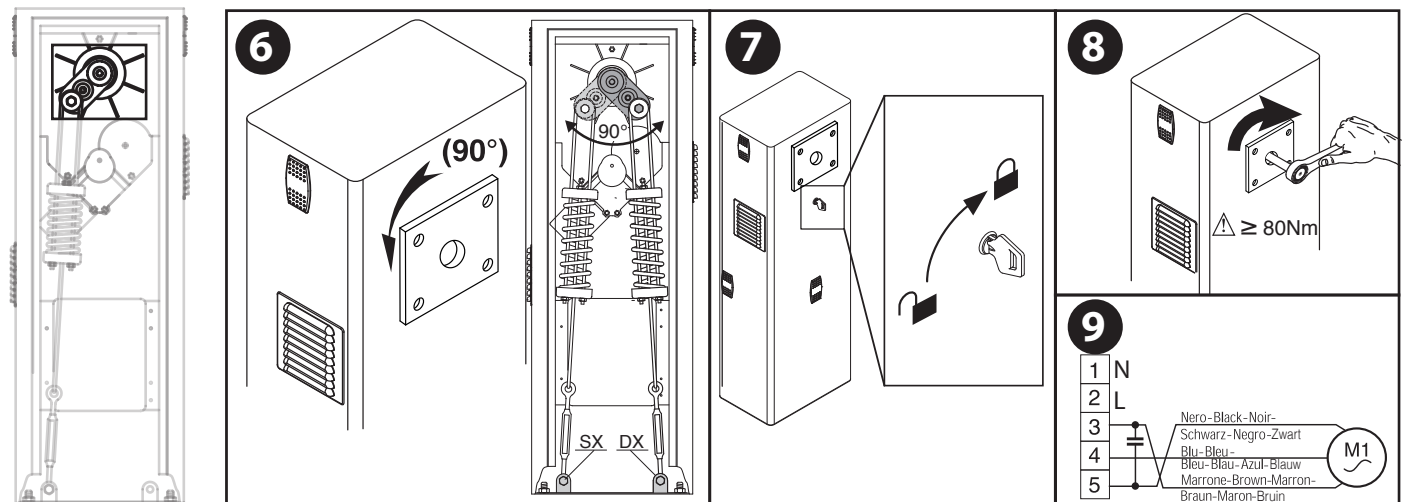
Assicurarsi che la molla non sia in tensione, e l'asta non sia montata.
 Make sure the spring is not under tension and the boom is not fitted.
 Vérifiez si le ressort n'est pas en tension et si la tige n'est pas montée.
 Sicherstellen, dass die Feder nicht gespannt und die Stange nicht montiert ist.
 Asegurarse de que el muelle no esté tensado y de que el mástil no esté montado.
 Controleren of de veer niet onder spanning staat, en de stang niet gemonteerd is.

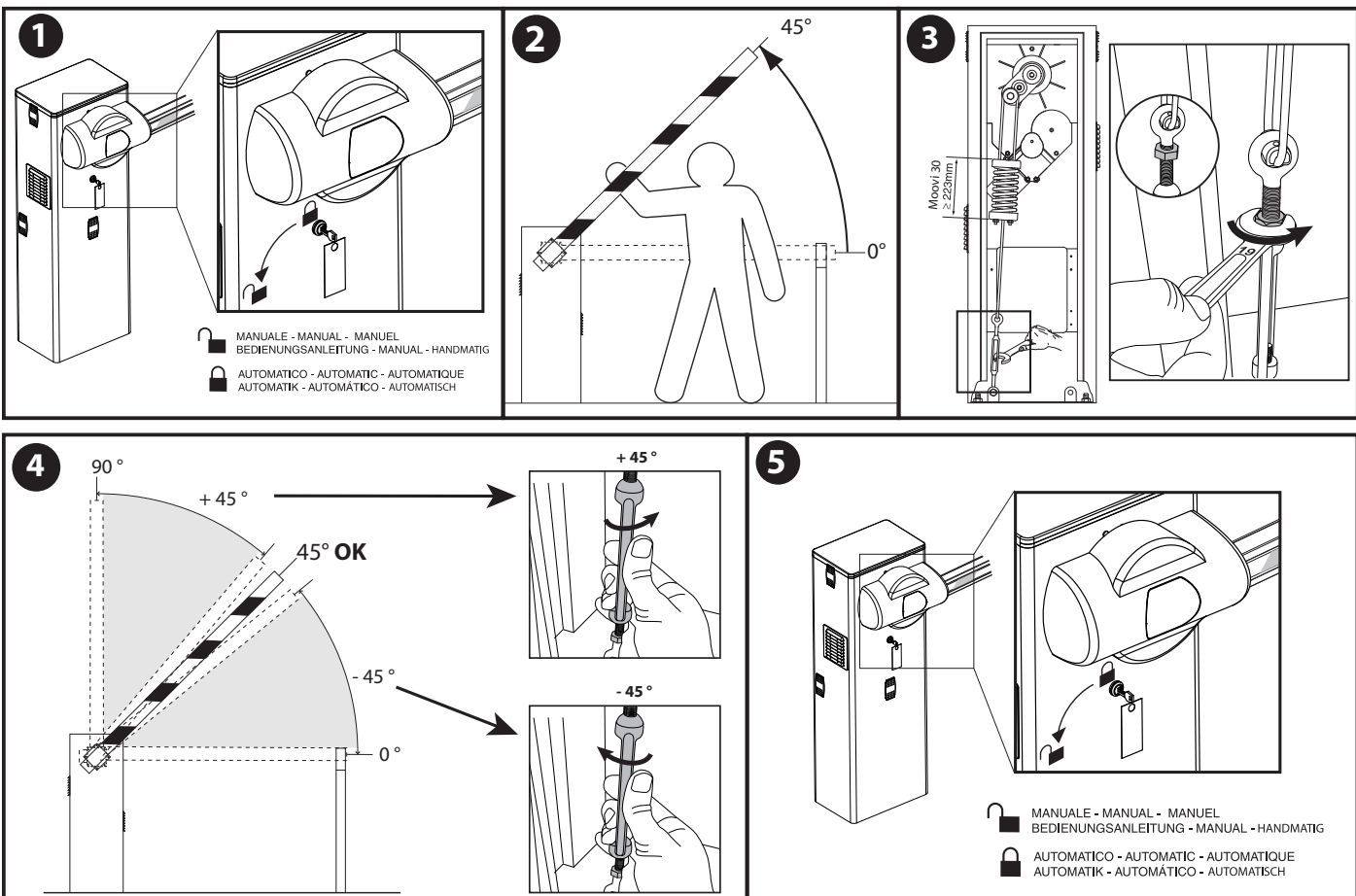


Smontare il gruppo molla, Remove the spring assembly, Démonter le groupe ressort, Die Feder-Baugruppe ausbauen, Desmontar el grupo muelle, De groep veer demonteren.



Rimontare il gruppo molla a destra, Refit the right-hand spring assembly, Remontez le groupe ressort à droite, Die Baugruppe neu montieren, Feder rechts, Volver a montar el grupo muelle a la derecha, De veergroep opnieuw rechts monteren.





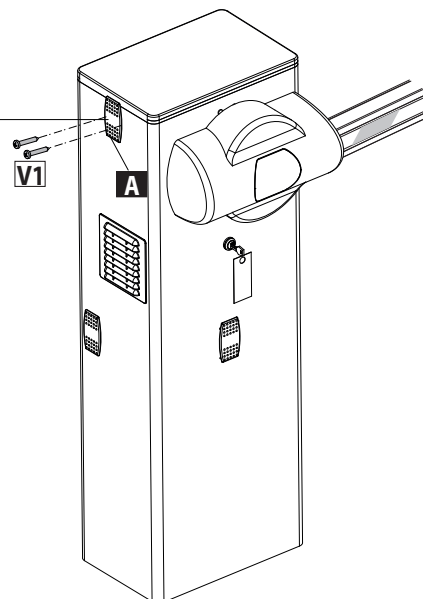
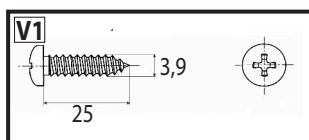
MONTAGGIO LAMPEGGIANTE, FITTING THE FLASHING LIGHT, MONTAGE DU CLIGNOTANT, MONTAGE DER BLINKLEUCHTE, MONTAJE DEL INDICADOR PARPADEANTE, MONTAGE FOTOCCEL

Per l'installazione del lampeggiante fare riferimento ai manuali del lampeggiante
See the flashing light's manual for instructions on installing the flashing light
Pour monter le clignotant consultez le manuel du clignotant
Bitte nehmen Sie für die Installation der Blinkleuchte auf das Handbuch der Blinkleuchte Bezug
Para instalar el indicador parpadeante consultar el manual del mismo
Raadpleeg de handleiding van het zwaailicht voor de installatie van het zwaailicht

ATTENZIONE! togliere il coperchietto A
PLEASE NOTE! Remove cover A
ATTENTION ! Retirez le couvercle A
ACHTUNG! Entfernen Sie die Abdeckung A
¡ATENCIÓN! Quitar la tapa A
OPGELET! Demonteer het klepje A

ATTENZIONE! fissare il lampeggiante alla barriera con la vite (V1)
PLEASE NOTE! Fasten the flashing light on the barrier using the screw (V1)
ATTENTION ! Fixez le clignotant sur la barrière avec la vis (V1)
ACHTUNG! Befestigen Sie die Blinkleuchte mit der Schraube (V1) an der Schranke
¡ATENCIÓN! Fijar el indicador parpadeante a la barrea con el tornillo (V1)
OPGELET! Bevestig het zwaailicht met de schroef (V1) aan de slagboom

Installazione lampeggiante
Installing the flashing light
Installation du clignotant
Installation der Blinkleuchte
Instalación del indicador parpadeante
Installatie zwaailicht



MONTAGGIO FOTOCELLULA, FITTING THE PHOTOCELL, MONTAGE DE LA PHOTOCELLULE, MONTAGE DER FOTOZELLE, MONTAJE DE LA FOTOCÉLULA, MONTAGE FOTOCEL

AD

Per l'installazione della fotocellula e della fotocellula con supporto colonnina fare riferimento ai manuali delle fotocellule e ai manuali supporto colonnina

See the photocell's manuals and post mount's manuals for instructions on installing the photocell and photocell with post mount

Pour monter la photocellule et la photocellule avec colonnette de support consultez le manuel des photocellules et le manuel de la colonnette de support

Bitte nehmen Sie für die Installation der Fotozelle und der Fotozelle mit Säulenhalterung auf das Handbuch der Fotozellen und auf das Handbuch der Säulenhalterung Bezug

Para instalar la fotocélula y la fotocélula con soporte columna consultar el manual de las fotocélulas y el manual del soporte columna

Raadpleeg de handleiding van de fotocellen en de handleiding van de steunpilaar voor de montage van de fotocel en de fotocel met steunpilaar

ATTENZIONE! togliere il coperchietto A

PLEASE NOTE! Remove cover A

ATTENTION ! Retirez le couvercle A

ACHTUNG! Entfernen Sie die Abdeckung A

¡ATENCIÓN! Quitar la tapa A

OPGELET! Demonteer het klepje A

ATTENZIONE! fissare la fotocellula alla barriera con la vite qui illustrata (V1)

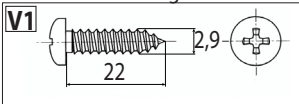
PLEASE NOTE! Fasten the photocell on the barrier using the screw (V1)

ATTENTION ! Fixez la photocellule sur la barrière avec la vis (V1)

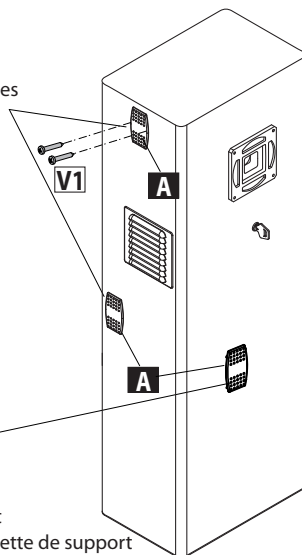
ACHTUNG! Befestigen Sie die Fotozelle mit der Schraube (V1) an der Schranke

¡ATENCIÓN! Fijar la fotocélula a la barrea con el tornillo (V1)

OPGELET! Bevestig de fotocel met de schroef (V1) aan de slagboom

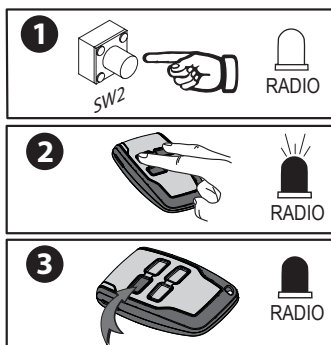


Installazione fotocellula
Installing the photocells
Montage des photocellules
Installation der Fotozelle
Instalación fotocélulas
Installatie fotocellen



Installazione fotocellula con relativo supporto
Installing the photocell with post mount
Montage de la photocellule avec colonnette de support
Installation der Fotozelle mit Säulenhalterung
Instalación fotocélula con soporte columna
Installatie fotocel met steunpilaar

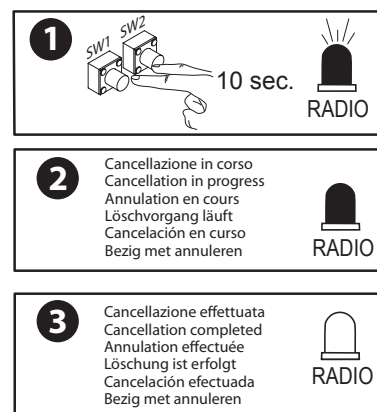
Programmazione trasmettitori manuale su 2° canale radio, *Manual transmitter programming on 2nd radio channel*, Programmation manuelle des émetteurs sur le 2ème canal radio, *Manuelle programmierung Sender auf 2 Funkkanal*, Programación manual transmisores en 2º canal radio, *Handmatige programmering zenders op 2e radiokanaal*.



Programmazione trasmettitori remota, *Remote transmitter programming*, Programmation émetteurs à distance, Fernprogrammierung der sender, Programación de transmisores remota, Programmering op afstand.

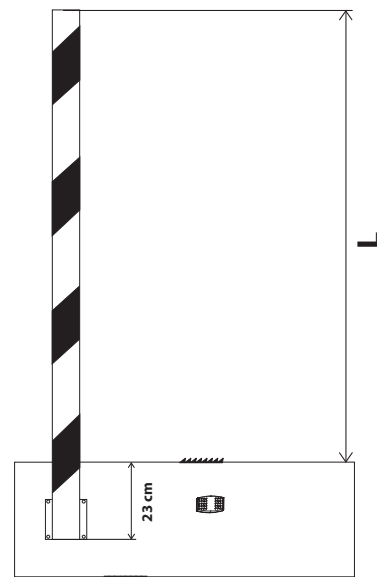


Cancellazione trasmettitori, *Transmitter cancellation*, Tion émetteurs, Löschen von sendern, Cancelacion de transmisores, Annulering zenders.



AE

Accessori MOOVI: lunghezza utile asta e bilanciamento. / MOOVI Accessories: working length of boom and balancing. / Accessoires MOOVI: longueur utile de la barre et équilibrage. / MOOVI Zubehör: Nutzlänge Schranke und Auswuchtung. / Accesorios MOOVI: longitud útil mástil y balance. / Accessoires MOOVI: nuttige lengte slagboom en balanceren.																
SB		+ SB	+ SB	+ SB										+ SB	+ SB	+ SB
PCA N		+ PCA N	+ PCA N	+ PCA N										+ PCA N	+ PCA N	+ PCA N
(solo sopra l'asta)*1																
PCA N																
(solo sotto l'asta)*2																
KIT LIGHT		+ LIGHT												+ LIGHT		+ LIGHT
GA/GAMA AQ AT		+ GA/GAMA	+ GA/GAMA	+ GA/GAMA												
BIR																
MOOVI 60	A	MIN L	6 m	3,2 m	3,2 m	3,3 m	3,7 m	3,8 m	+ GA/GAMA	+ GA/GAMA	+ GA/GAMA	+ GA/GAMA	+ GA/GAMA	3,4 m	3,4 m	3,6 m
		MAX L	6 m	3,5 m	3,6 m	3,7 m	4,2 m	4,3 m						4,1 m	4,2 m	4,4 m
	B	MIN L	4,4 m	2,4 m	2,5 m	2,6 m	2,9 m	2,9 m						3,2 m	3,3 m	3,4 m
		MAX L	5 m	3,3 m	3,3 m	3,5 m	3,9 m	4 m						4,2 m	4,3 m	4,5 m
MOOVI 30	B	MIN L		2,5 m	2,6 m	2,6 m	2,9 m	2,7 m						2,9 m		
		MAX L		3 m	3 m	3 m	3 m	3 m						3 m		
	C	MIN L	2,9 m	1,7 m	1,7 m	1,8 m	2,1 m	2,1 m						2,4 m	2,4 m	2,6 m
		MAX L	3 m	3 m	3 m	3 m	3 m	3 m						3 m	3 m	3 m



L: Lunghezza utile asta.
 L: Working boom length.
 L: Longueur utile de la barre.
 L: Nutzlänge der Schranke.
 L: Longitud útil mástil.
 L: Nuttige lengte slagboom.

*1
 (above boom only)
 (uniquement sur la barre)
 (nur über der Schranke)
 (sólo sobre el mástil)
 (alleen boven de slagboom)

*2
 (below boom only)
 (uniquement sous la barre)
 (nur unter der Schranke)
 (sólo debajo el mástil)
 (alleen onder de slagboom)

WARNING! Important safety instructions. Carefully read and comply with all the warnings and instructions that come with the product as incorrect installation can cause injury to people and animals and damage to property. The warnings and instructions give important information regarding safety, installation, use and maintenance. Keep hold of instructions so that you can attach them to the technical file and keep them handy for future reference.

GENERAL SAFETY

This product has been designed and built solely for the purpose indicated herein. Uses other than those indicated herein might cause damage to the product and create a hazard.

- The units making up the machine and its installation must meet the requirements of the following European Directives, where applicable: 2004/108/EC, 2006/95/EC, 2006/42/EC, 89/106/EC, 99/05/EC and later amendments. For all countries outside the EEC, it is advisable to comply with the standards mentioned, in addition to any national standards in force, to achieve a good level of safety.
- The Manufacturer of this product (hereinafter referred to as the "Firm") disclaims all responsibility resulting from improper use or any use other than that for which the product has been designed, as indicated herein, as well as for failure to apply Good Practice in the construction of entry systems (doors, gates, etc.) and for deformation that could occur during use.
- Installation must be carried out by qualified personnel (professional installer, according to EN 12635), in compliance with Good Practice and current code.
- Before installing the product, make all structural changes required to produce safety gaps and to provide protection from or isolate all crushing, shearing and dragging hazard areas and danger zones in general in accordance with the provisions of standards EN 12604 and 12453 or any local installation standards. Check that the existing structure meets the necessary strength and stability requirements.
- Before commencing installation, check the product for damage.
- The Firm is not responsible for failure to apply Good Practice in the construction and maintenance of the doors, gates, etc. to be motorized, or for deformation that might occur during use.
- Make sure the stated temperature range is compatible with the site in which the automated system is due to be installed.
- Do not install this product in an explosive atmosphere: the presence of flammable fumes or gas constitutes a serious safety hazard.
- Disconnect the electricity supply before performing any work on the system. Also disconnect buffer batteries, if any are connected.
- Before connecting the power supply, make sure the product's ratings match the mains ratings and that a suitable residual current circuit breaker and overcurrent protection device have been installed upline from the electrical system. Have the automated system's mains power supply fitted with a switch or omnipolar thermal-magnetic circuit breaker with a contact separation that provide full disconnection under overvoltage category III conditions.
- Make sure that upline from the mains power supply there is a residual current circuit breaker that trips at no more than 0.03A as well as any other equipment required by code.
- Make sure the earth system has been installed correctly: earth all the metal parts belonging to the entry system (doors, gates, etc.) and all parts of the system featuring an earth terminal.
- Installation must be carried out using safety devices and controls that meet standards EN 12978 and EN 12453.
- Impact forces can be reduced by using deformable edges.
- In the event impact forces exceed the values laid down by the relevant standards, apply electro-sensitive or pressure-sensitive devices.
- Apply all safety devices (photocells, safety edges, etc.) required to keep the area free of impact, crushing, dragging and shearing hazards. Bear in mind the standards and directives in force, Good Practice criteria, intended use, the installation environment, the operating logic of the system and forces generated by the automated system.
- Apply all signs required by current code to identify hazardous areas (residual risks). All installations must be visibly identified in compliance with the provisions of standard EN 13241-1.
- Once installation is complete, apply a nameplate featuring the door/gate's data.
- This product cannot be installed on leaves incorporating doors (unless the motor can be activated only when the door is closed).
- If the automated system is installed at a height of less than 2.5 m or is accessible, the electrical and mechanical parts must be suitably protected.
- Install any fixed controls in a position where they will not cause a hazard, away from moving parts. More specifically, hold-to-run controls must be positioned within direct sight of the part being controlled and, unless they are key operated, must be installed at a height of at least 1.5 m and in a place where they cannot be reached by the public.
- Apply at least one warning light (flashing light) in a visible position, and also attach a Warning sign to the structure.
- Attach a label near the operating device, in a permanent fashion, with information on how to operate the automated system's manual release.
- Make sure that, during operation, mechanical risks are avoided or relevant protective measures taken and, more specifically, that nothing can be banged, crushed, caught or cut between the part being operated and surrounding parts.
- Once installation is complete, make sure the motor automation settings are correct and that the safety and release systems are working properly.
- Only use original spare parts for any maintenance or repair work. The Firm disclaims all responsibility for the correct operation and safety of the automated system if parts from other manufacturers are used.
- Do not make any modifications to the automated system's components unless explicitly authorized by the Firm.
- Instruct the system's user on what residual risks may be encountered, on the control systems that have been applied and on how to open the system manually in an emergency. Give the user guide to the end user.
- Dispose of packaging materials (plastic, cardboard, polystyrene, etc.) in accordance with the provisions of the laws in force. Keep nylon bags and polystyrene out of reach of children.

WIRING

WARNING! For connection to the mains power supply, use: a multicore cable with a cross-sectional area of at least 5x1.5mm² or 4x1.5mm² when dealing with three-phase power supplies or 3x1.5mm² for single-phase supplies (by way of example, type H05 VV-F cable can be used with a cross-sectional area of 4x1.5mm²). To connect auxiliary equipment, use wires with a cross-sectional area of at least 0.5 mm².

- Only use pushbuttons with a capacity of 10A-250V or more.
- Wires must be secured with additional fastening near the terminals (for example, using cable clamps) in order to keep live parts well separated from safety extra low voltage parts.
- During installation, the power cable must be stripped to allow the earth wire to be connected to the relevant terminal, while leaving the live wires as short as possible. The earth wire must be the last to be pulled taut in the event the cable's fastening device comes loose.

WARNING! safety extra low voltage wires must be kept physically separate from low voltage wires.

Only qualified personnel (professional installer) should be allowed to access live parts.

CHECKING THE AUTOMATED SYSTEM AND MAINTENANCE

Before the automated system is finally put into operation, and during maintenance work, perform the following checks meticulously:

- Make sure all components are fastened securely.
- Check starting and stopping operations in the case of manual control.
- Check the logic for normal or personalized operation.
- For sliding gates only: check that the rack and pinion mesh correctly with 2 mm of play along the full length of the rack; keep the track the gate slides on clean and free of debris at all times.
- For sliding gates and doors only: make sure the gate's running track is straight and horizontal and that the wheels are strong enough to take the weight of the gate.
- For cantilever sliding gates only: make sure there is no dipping or swinging during operation.
- For swing gates only: make sure the leaves' axis of rotation is perfectly vertical.
- For barriers only: before opening the door, the spring must be decompressed (vertical boom).
- Check that all safety devices (photocells, safety edges, etc.) are working properly and that the anti-crush safety device is set correctly, making sure that the force of impact measured at the points provided for by standard EN 12445 is lower than the value laid down by standard EN 12453.
- Impact forces can be reduced by using deformable edges.
- Make sure that the emergency operation works, where this feature is provided.
- Check opening and closing operations with the control devices applied.
- Check that electrical connections and cabling are intact, making extra sure that insulating sheaths and cable glands are undamaged.
- While performing maintenance, clean the photocells' optics.
- When the automated system is out of service for any length of time, activate the emergency release (see "EMERGENCY OPERATION" section) so that the operated part is made idle, thus allowing the gate to be opened and closed manually.
- If the power cord is damaged, it must be replaced by the manufacturer or their technical assistance department or other such qualified person to avoid any risk.
- If "D" type devices are installed (as defined by EN 12453), connect in unverified mode, foresee mandatory maintenance at least every six months
- The maintenance described above must be repeated at least once yearly or at shorter intervals where site or installation conditions make this necessary.

WARNING!

Remember that the drive is designed to make the gate/door easier to use and will not solve problems as a result of defective or poorly performed installation or lack of maintenance



SCRAPPING

Materials must be disposed of in accordance with the regulations in force. Do not throw away your discarded equipment or used batteries with household waste. You are responsible for taking all your waste electrical and electronic equipment to a suitable recycling centre.

DISMANTLING

If the automated system is being dismantled in order to be reassembled at another site, you are required to:

- Cut off the power and disconnect the whole electrical system.
- Remove the actuator from the base it is mounted on.
- Remove all the installation's components.
- See to the replacement of any components that cannot be removed or happen to be damaged.

Anything that is not explicitly provided for in the installation manual is not allowed. The operator's proper operation can only be guaranteed if the information given is complied with. The Firm shall not be answerable for damage caused by failure to comply with the instructions featured herein.

While we will not alter the product's essential features, the Firm reserves the right, at any time, to make those changes deemed opportune to improve the product from a technical, design or commercial point of view, and will not be required to update this publication accordingly.

2) GENERAL INFORMATION

Compact electromechanical barrier suitable for enclosing private areas and car parks and for use across entrances used by vehicle traffic only. Available for entrance/exit points between 3 and 5 metres across. Adjustable electro-mechanical limit switches ensure the boom stops in the correct position. The emergency release for manual operation is operated by a lock with a personalized key.

The actuator is always supplied ready for assembly on the left.

Where necessary, the opening direction can always be reversed with a few simple operations. The foundation base mod. CBO (on request) can be supplied to make the barrier easier to install.

Provision for accessories makes installing them straightforward, with no need to drill additional holes.

3) TECHNICAL SPECIFICATIONS

MOTOR	
Power supply:	220-230 V 50/60 Hz(*)
Max. power input:	300W
Capacitor:	8µF 450V (220-230V): 32µF 250V (110V)
Current demand (with accessories):	1,4 A: 2.8 A
Insulation class:	F
Internal lubrication:	lifetime greased
Max. torque:	85 Nm (MOOVI 30) 250 Nm (MOOVI 60)
Opening time:	4s (MOOVI 30) 8s (MOOVI 60)
Boom length:	3m max (MOOVI 30) 6m max (MOOVI 60)
Impact reaction (Safety Edge):	stop or stop and reverse
Mechanical manual release:	personalized key
Type of boom:	rectangular
Limit switches:	electric, built-in and adjustable
Type of use	semi intensive
Operating temperature range:	da -20°C a +50°C
Protection rating:	IP 24
Actuator weight (without boom):	35,6 Kg
Flashing light:	220-230V~ 25W max
Dimensions:	see fig.A
CONTROL UNIT	
Accessories power supply:	24V~(demand max. 180mA)
Fuses:	see figures I, J
Max. motor output:	500 W
Work time:	max. 10 sec.

(*)= special supply voltages to order

4.1) FOUNDATION PLATE (Fig.B1)

4.2) ANCHOR BOLTS (Fig.B2)

5) ACTUATOR ASSEMBLY

WARNING! The barrier must be used only for entrance/exit points intended for vehicle traffic. Pedestrians must not be allowed to pass within range of the automated system. Make sure there is a separate entrance/exit just for pedestrians.

The entrance/exit must be suitably signposted with the compulsory signs illustrated in Fig.A.

WARNING: before opening the door, the spring must be decompressed (vertical boom). The door in the cabinet must face towards the inside of the property. Standing in the middle of the entrance, facing out, if the cabinet is on your left, the barrier is on your left: if the cabinet is on your right, the barrier is on your right.

The actuator is always supplied ready for assembly on the left.

6) Assembly on left (Fig. A, B, C, D).

- Balance the boom as illustrated in Fig. AB.

7) Assembly on right (Fig. AA).

- Balance the boom as illustrated in Fig. AB.

8) Boom assembly (Fig. D).

9) BOOM BALANCING (Fig. AB).

For Moovi 30:

WARNING! During the closing operation, the balancing spring must never be fully compressed. Fig.AB rif.3 shows the position for determining the minimum size that the compressed spring can be allowed to reach with the boom in the open position (vertical).

10) MOOVI accessories (boom length limits and balancing) (Fig. AF)

For further information on installing and using the accessories, refer to the relevant instruction manual.

11) FITTING THE FLASHING LIGHT (FIG.AC)

Complete assembly and wiring as directed in instructions provided for the flashing light

12) FITTING THE PHOTOCELL (FIG. AD).

Complete assembly as directed in instructions provided for the photocell

13) ADJUSTING THE LIMIT SWITCHES (Fig. G)

14) PREPARING THE ELECTRICAL SYSTEM

WARNING: before opening the door, the spring must be decompressed (vertical boom). Prepare the electrical system (fig. A), referring to the standards in force. Keep mains power connections well separated from service connections (photocells, safety edges, control devices, etc.).

WARNING! For connection to the mains power supply, use a multicore cable with a cross-section of at least 3x1.5mm² of the kind provided for by the regulations mentioned above (by way of example, if the cable is not protected, it must be rated H07 RN-F or higher, while if it is protected it must be rated at least H05 VV-F with a cross-section of 3x1.5mm²).

15) WIRING (Fig. F, I, J)

WARNING: Wiring must be carried out by qualified, expert personnel in a professional manner and in accordance with all regulations in force, using appropriate materials.

BORNE	DESCRIPTION
1-2	Power supply 220-230 V 50/60 Hz (Neutral to terminal 1).
3-4-5	Motor M connection (terminal 4 common, terminals 3-5 motor start and capacitor).
1-4	220-230V flashing light connection
7-8	START input or key selector (N.O.) with trimmer TW=max. OPEN input (N.O.) with trimmer TW=min.
7-9	STOP button (N.C.). If not used, leave jumpered.
7-10	Photocell or pneumatic safety edge input (N.C.). If not used, leave jumpered.
7-11	Opening limit switch (N.C.). If not used, leave jumpered.
7-12	Closing limit switch (N.C.). If not used, leave jumpered.
13-14	24 V~output to supply photocell and other devices.
15-16	Output for barrier open light / 2nd radio channel.
17-18	Antenna receiver input (17 signal 18 braiding).
19-20	PEDESTRIAN input (N.O.) with trimmer TW=max. CLOSE input (N.O.) with trimmer TW=min.
JP4	1-2 channel radio-receiver board connector.

16) ADJUSTMENTS

RECOMMENDED ADJUSTMENT SEQUENCE:

Adjusting the limit switches (Fig. G)
Programming transmitters (Fig. H)
Setting of parameters/logic, where necessary

16.1) LEDs (Fig. J)

ALPHA-ALPHA BOM control panels feature a series of self-diagnosis LEDs via which all functions can be monitored. LED functions are as follows:

LED	DESCRIPTION
DL1	Built-in radio receiver LED.
DL2	START (trimmer TW=max) - lights when START command given OPEN (trimmer TW=min) - lights when OPEN command given
DL3	STOP - goes off when Stop command given.
DL4	PHOT - goes off when photocells are not aligned or when there is an obstacle.

DL5	SWO - goes off when opening limit switch command given.
DL6	SWC - goes off when closing limit switch command given.

16.2) DIP SWITCHES (DIP SWITCH TABLE "A") (Fig. J)

16.3) TRIMMERS (Fig. J)

TRIMMER	ADJUSTMENTS	DESCRIPTION
TCA	 0 sec.	(Dip1 - TCA set to ON). Adjusts automatic closing time, following which the barrier closes automatically (adjustable in range 0 to 90 sec.).
	 90 sec.	
TW	 min.	Inputs 7-8 and 19-20 are taken respectively to mean OPEN and CLOSE.
	 max.	Inputs 7-8 and 19-20 are taken respectively to mean Start and Pedestrian.

17) BUILT-IN RECEIVER

Receiver's output channels:

- Output channel 1, if activated, gives the START command.
- Output channel 2, if activated, commands the 2nd radio channel relay to energize for 1 sec..

Usable transmitter versions:

All **ROLLING CODE** transmitters compatible with: .

All **REPLAY** transmitters compatible with: ((ER-Ready)).

17.1) INSTALLING THE ANTENNA

Use an antenna tuned to 433MHz.

Use RG58 coax cable to connect the Antenna and Receiver.

Metal bodies close to the antenna can interfere with radio reception. If the transmitter's range is limited, move the antenna to a more suitable position.

17.2) PROGRAMMING

Transmitters can be memorized in manual mode, in remote mode (DIP 6 = ON) or by means of the universal handheld programmer, which means installations can be created in "receiver community" mode and the installation's complete database can be managed via the EEdbase software.

17.3) MANUAL PROGRAMMING (Fig. H, AE)

In the case of standard installations in which advanced features are not required, transmitters can be memorized manually.

- 1) If you want the transmitter's T key to be memorized as the start key, press the SW1 button on the control panel. Alternatively, if you want the transmitter's T key to be memorized as the second radio channel, press the SW2 button on the control panel.
- 2) When LED DL1 flashes, press the transmitter's hidden key P1. LED DL1 will stay steadily lit.
- 3) Press the key of the transmitter to be memorized, LED DL1 will start flashing again.
- 4) To memorize another transmitter, repeat steps 2) and 3).
- 5) To exit memorizing mode, wait for the LED to go off completely.

IMPORTANT NOTE: THE FIRST TRANSMITTER MEMORIZED MUST BE IDENTIFIED BY ATTACHING THE KEY LABEL (master).

In the event of manual programming, the first transmitter assigns the key code to the receiver: this code is required to subsequently clone the radio transmitters.

17.4) REMOTE PROGRAMMING (DIP SW 6= ON).

- 1) Press the hidden key of a transmitter that has already been memorized in standard mode via manual programming.
- 2) Press the normal key (T1-T2-T3-T4) of a transmitter that has already been memorized in standard mode via manual programming.
- 3) LED DL1 flashes. Press within 10 sec. the hidden key of a transmitter to be memorized.
- 4) LED DL1 is steadily lit. Press the normal key (T1-T2-T3-T4) of a transmitter to be memorized.

The receiver exits programming mode after 10 sec.: you can use this time to enter other new transmitters.

This mode does not require access to the control panel.

17.5) ERASING THE CONTROL PANEL'S MEMORY (Fig. AE)

To erase the control panel's memory completely, hold down the SW1 and SW2 buttons on the control panel at the same time for 10 seconds (LED DL1 flashes). When LED DL1 is steadily lit it means the memory has been erased correctly. To exit memorizing mode, wait for the LED to go off completely.

18) EMERGENCY RELEASE (Fig. Y)

WARNING: When needing to activate the release in an actuator without a boom, make sure the balancing spring is not compressed (boom in opening position).

19) TROUBLESHOOTING.

19.1) Boom fails to open. Motor not running.

WARNING: before opening the door, the spring must be decompressed (vertical boom).

- 1) Make sure the photocells are not dirty, misaligned or have had their beam broken.
- 2) Check that the motor is connected properly.
- 3) Make sure power is being supplied correctly to electronic equipment. Check for blown fuses. If a fuse is malfunctioning, remove and replace as illustrated in Fig. I, J.
- 4) If the panel is not working, replace it.
- 5) Grease the spring guide tie rods if you encounter noise or vibrations.

20.2) Boom fails to open. Motor running but there is no movement.

- 1) Manual release is still engaged. Reset to motorized operation.
- 2) If the release is in the motorized operation position, check the gearbox for damage.

17.2) TABLE A: DIP SWITCH

DIP	Default	Definition	Cross out setting used	Description
DIP 1	ON	TCA- Automatic closing time.	ON	Automatic closing ON.
			OFF	Automatic closing OFF.
DIP 2	ON	FCH- Photocells.	ON	Photocells active during closing only.
			OFF	Photocells active during closing and opening.
DIP 3	OFF	BLI - Block Pulses.	ON	START commands not accepted during opening.
			OFF	START commands accepted during opening.
DIP 4	OFF	3P/4P - 3 steps or 4 steps.	ON	Switches to 3-step logic.
			OFF	Switches to 4-step logic.
DIP 5	OFF	CODE FIX - Fixed code.	ON	Activates built-in receiver in fixed-code mode.
			OFF	Activates built-in receiver in rolling-code mode.
DIP 6	OFF	RADIO LEARN - Transmitter programming.	ON	Enables wireless memorizing of transmitters (REPLAY, CLONI,)
			OFF	Wireless memorizing disabled: wireless learning of any remote control disabled (including CLONI and REPLAY).
DIP 7	OFF	SCA- Gate open light or 2nd radio channel.	ON	Activates relay output as 2nd radio channel.
			OFF	Activates relay output in Gate open light mode.
DIP 8	OFF	FAST CLOSE	ON	Closes barrier after the photocells are cleared before waiting for the set TCA to elapse.
			OFF	Command not enabled.

Any other use constitutes improper use and, consequently, is hazardous. The manufacturer cannot be held liable for any damage as a result of improper, incorrect or unreasonable use.

GENERAL SAFETY

Thank you for choosing this product. The Firm is confident that its performance will meet your operating needs.

This product meets recognized technical standards and complies with safety provisions when installed correctly by qualified, expert personnel (professional installer).

If installed and used correctly, the automated system will meet operating safety standards. Nonetheless, it is advisable to observe certain rules of behaviour so that accidental problems can be avoided:

- Keep adults, children and property out of range of the automated system, especially while it is moving.
- Do not allow children to play or stand within range of the automated system.
- This automated system is not meant for use by children or by people with impaired mental, physical or sensory capacities, or people who do not have suitable knowledge, unless a person who is responsible for their safety provides them with necessary supervision or instructions on how to use the device.
- Children must be supervised to ensure they do not play with the device. Do not allow children to play with the fixed controls. Keep remote controls out of reach of children.
- Do not work near hinges or moving mechanical parts.
- Do not hinder the leaf's movement and do not attempt to open the door manually unless the actuator has been released with the relevant release knob.
- Keep out of range of the motorized door or gate while they are moving.
- Keep remote controls or other control devices out of reach of children in order to avoid the automated system being operated inadvertently.
- The manual release's activation could result in uncontrolled door movements if there are mechanical faults or loss of balance.
- When using roller shutter openers: keep an eye on the roller shutter while it is moving and keep people away until it has closed completely. Exercise care when activating the release, if such a device is fitted, as an open shutter could drop quickly in the event of wear or breakage.
- The breakage or wear of any mechanical parts of the door (operated part), such as cables, springs, supports, hinges, guides..., may generate a hazard. Have the system checked by qualified, expert personnel (professional installer) at regular intervals according to the instructions issued by the installer or manufacturer of the door.
- When cleaning the outside, always cut off mains power.
- Keep the photocells' optics and illuminating indicator devices clean. Check that no branches

or shrubs interfere with the safety devices.

- Do not use the automated system if it is in need of repair. In the event the automated system breaks down or malfunctions, cut off mains power to the system; do not attempt to repair or perform any other work to rectify the fault yourself and instead call in qualified, expert personnel (professional installer) to perform the necessary repairs or maintenance. To allow access, activate the emergency release (where fitted).
- If any part of the automated system requires direct work of any kind that is not contemplated herein, employ the services of qualified, expert personnel (professional installer).
- At least once a year, have the automated system, and especially all safety devices, checked by qualified, expert personnel (professional installer) to make sure that it is undamaged and working properly.
- A record must be made of any installation, maintenance and repair work and the relevant documentation kept and made available to the user on request.
- Failure to comply with the above may result in hazardous situations.

Anything that is not explicitly provided for in the user guide is not allowed. The operator's proper operation can only be guaranteed if the instructions given herein are complied with. The Firm shall not be answerable for damage caused by failure to comply with the instructions featured herein.

While we will not alter the product's essential features, the Firm reserves the right, at any time, to make those changes deemed opportune to improve the product from a technical, design or commercial point of view, and will not be required to update this publication accordingly.

AVVERTISSEMENTS POUR L'UTILISATEUR (F)

ATTENTION! Instructions de sécurité importantes. Veuillez lire et suivre attentivement tous les avertissements et toutes les instructions fournis avec le produit sachant qu'un usage incorrect peut provoquer des préjudices aux personnes, aux animaux ou aux biens. Veuillez conserver les instructions pour d'ultérieures consultations et pour les transmettre aux propriétaires futurs éventuels.

Cet appareil ne peut être destiné qu'à l'usage pour lequel il a été expressément installé. Tout autre usage sera considéré comme impropre et donc dangereux. Le fabricant ne sera en aucun cas considéré comme responsable des préjudices dus à un usage impropre, erroné ou déraisonné.

SECURITE GÉNÉRALE

Nous vous remercions d'avoir choisi ce produit qui, nous n'en doutons pas, saura vous garantir les performances attendues.

Ce produit, correctement installé par du personnel qualifié et expérimenté (monteur professionnel) est

