

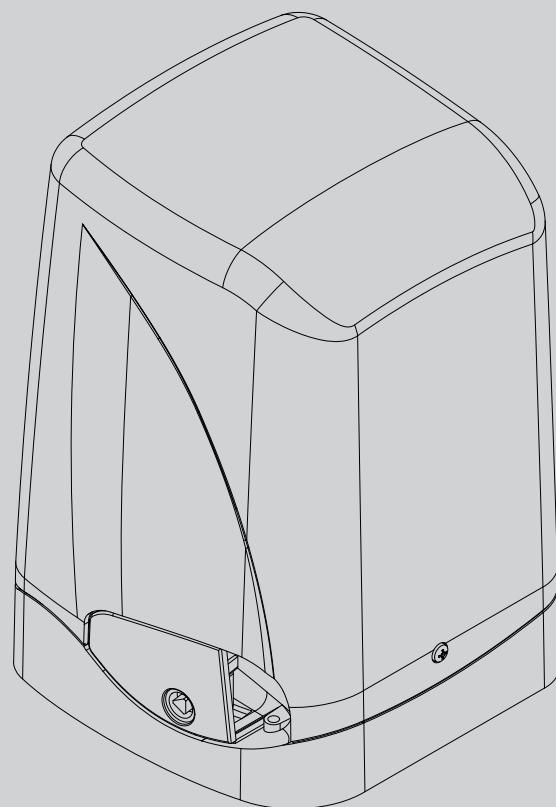


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D811754 00100_03 28-11-14

LOW-VOLTAGE ACTUATOR FOR RACK SLIDING GATES



ISTRUZIONI D'USO E DI INSTALLAZIONE
INSTALLATION AND USER'S MANUAL
INSTRUCTIONS D'UTILISATION ET D'INSTALLATION
INSTALLATIONS-UND GEBAUCHSANLEITUNG
INSTRUCCIONES DE USO Y DE INSTALACION
INSTALLATIEVOORSCHRIFTEN

A 300 SL
A-CT BOARD SL

BFT

www.BFTGateOpeners.com
(800) 878-7829

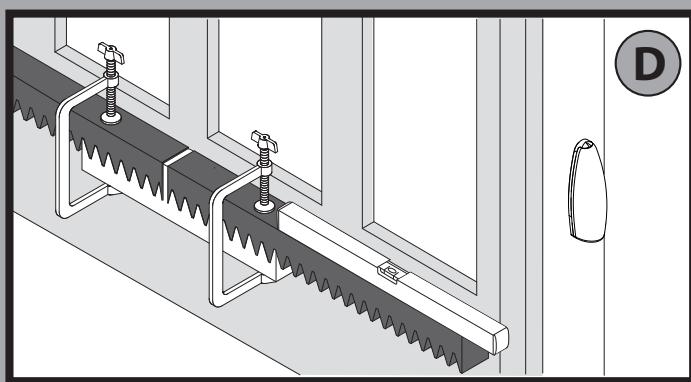
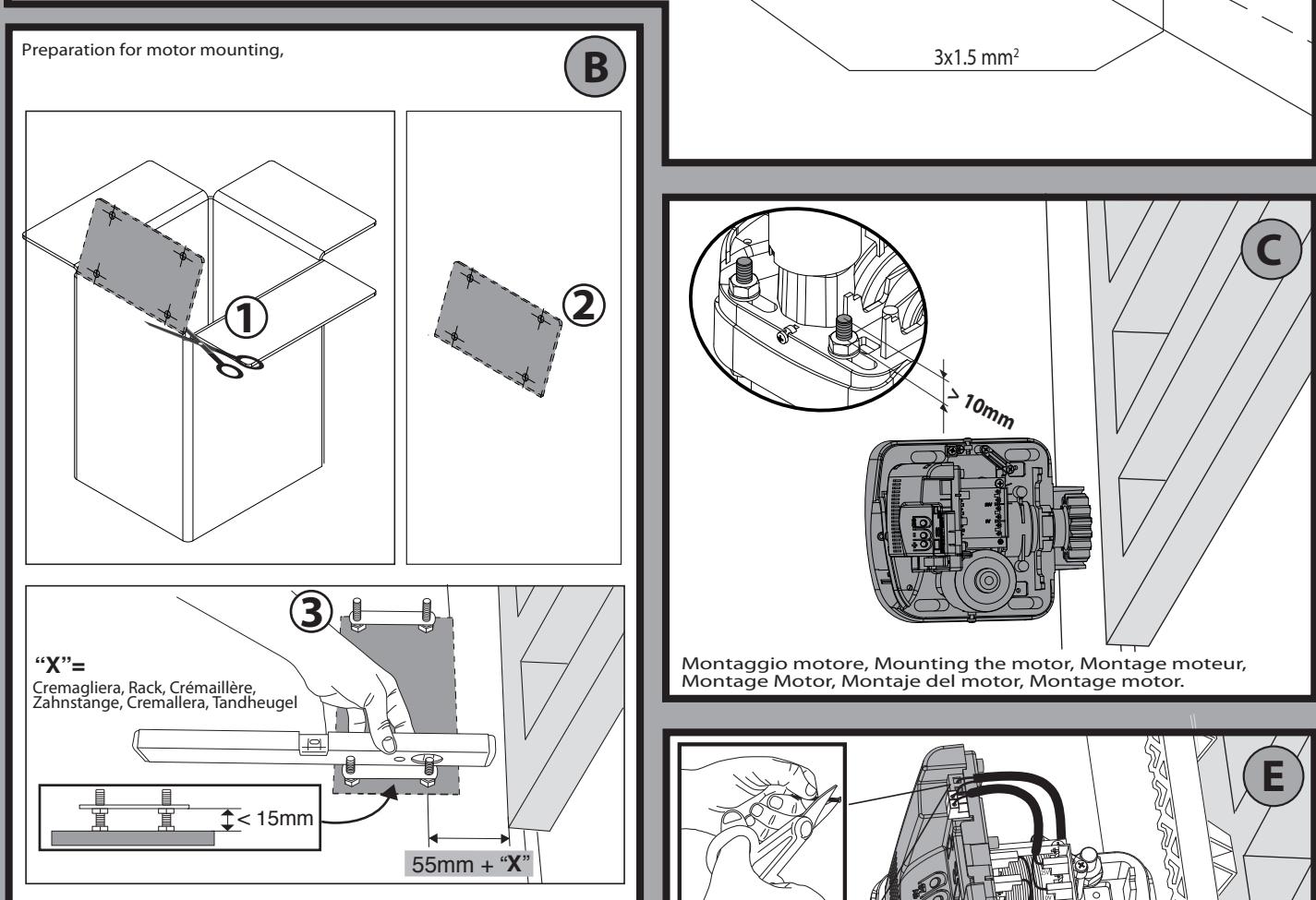
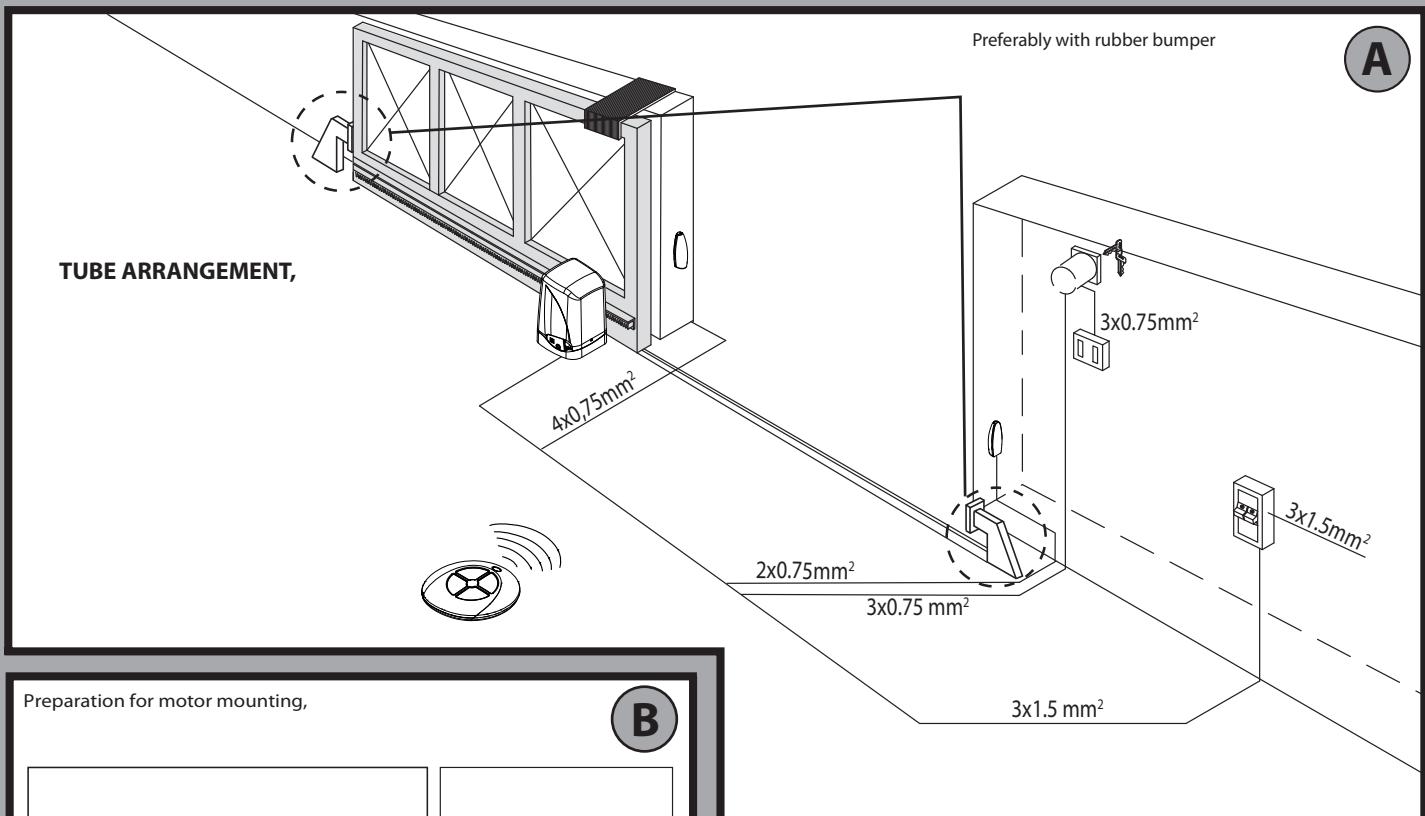


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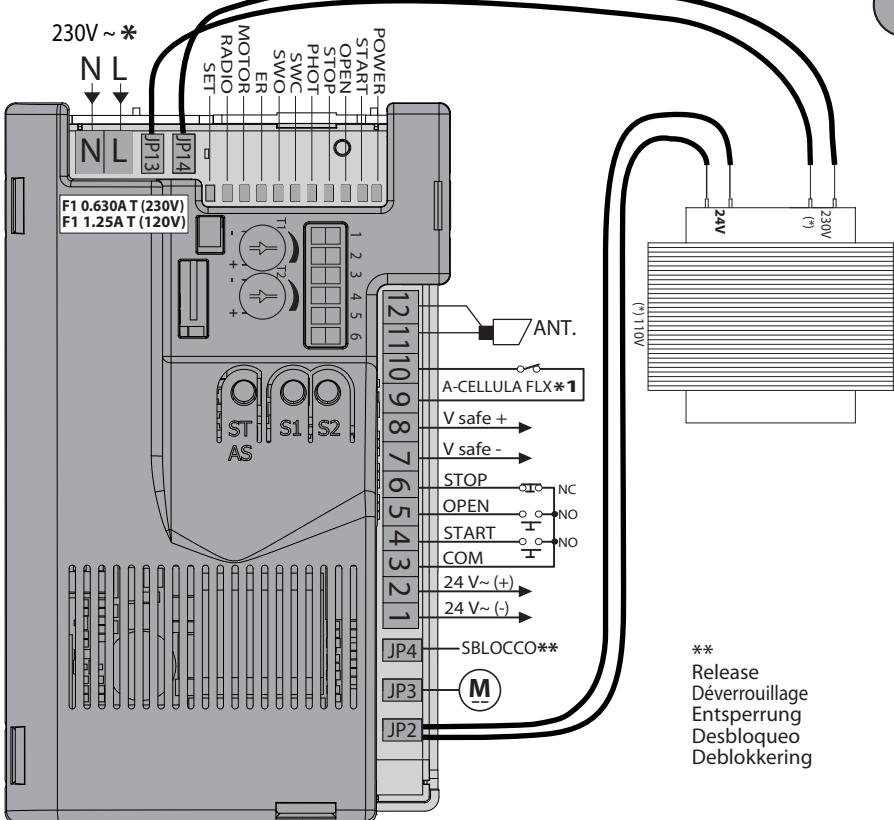
AZIENDA CON SISTEMA DI GESTIONE
INTEGRATO CERTIFICATO DA DNV
= UNI EN ISO 9001:2008 =
UNI EN ISO 14001:2004

QUICK INSTALLATION

D811754.00100_03



F



- *1 Se non si utilizza lasciare il ponticello inserito.
If not used, leave jumper inserted.
Si vous ne l'utilisez pas, laissez la barrette en place.
Falls nicht verwendet, überbrückt lassen.
Si no se utiliza, dejar el puente conectado.
Indien niet gebruikt, de brug niet verwijderen.

- * Altre tensioni disponibili a richiesta
Other voltages available on request
Autres tensions disponibles sur demande
Weitere Spannungen auf Anfrage erhältlich
Otras tensiones disponibles a petición
Andere spannungen op aanvraag beschikbaar

LEGENDA - KEY - LÉGENDE - LEGENDE - LEYENDA - LEGENDA

Fisso/Steadily lit
Fixe
Ununterbrochen an
Fijo/Continuo



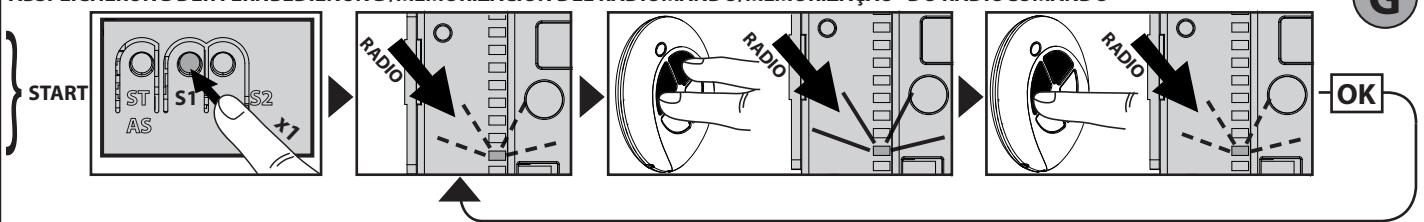
Lampeggio continuo
Continuous flashing
Clignotement continu
Kontinuierliches Blinken
Parpadeo continuo
Continu knipperen



Lampeggio intermittente
Intermittent flashing
Clignotement intermittent
intermittierendes Blinken
Parpadeo intermitente
Met intervallen knipperen

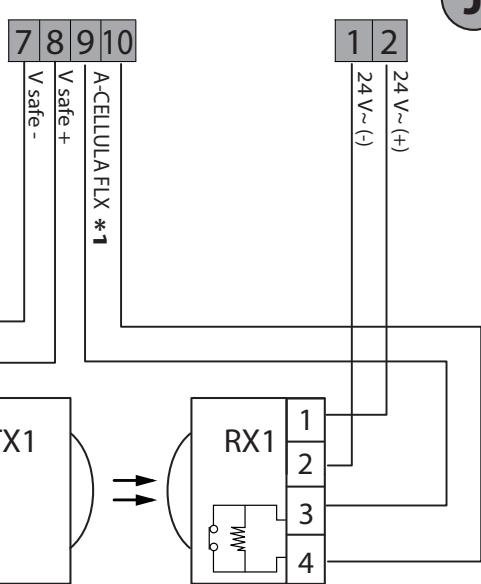
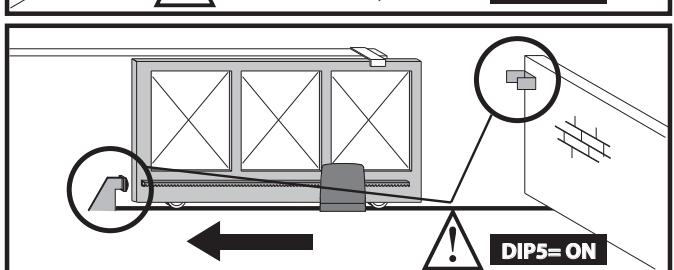
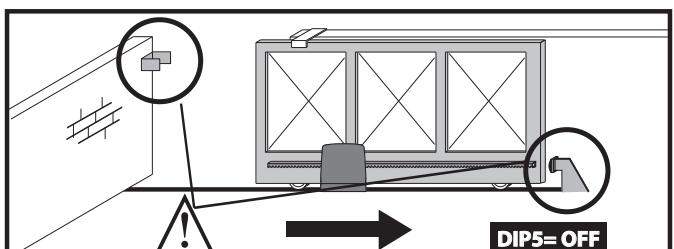
** Release
Déverrouillage
Entsperrung
Desbloqueo
Deblokering

MEMORIZZAZIONE RADIOCOMANDO/MEMORIZING REMOTE CONTROLS/MÉMORISATION RADIODRIVE/MEMORIZACIÓN DEL RADIOMANDO/MEMORIZAÇÃO DO RADIOCÓMODO



VERIFICA PRESENZA BLOCCHI MECCANICI E VERSO DI APERTURA
CHECKING MECHANICAL STOPS ARE INSTALLED AND OPENING DIRECTION
VÉRIFICATION DE LA PRÉSENCE DE BLOCAGES MÉCANIQUES ET DU SENS DE L'OUVERTURE
ÜBERPRÜFUNG VORHANDENSEIN ANSCHLÄGE UND ÖFFNUNGSRICHTUNG
CONTROL PRESENCIA BLOQUEOS MECÁNICOS Y SENTIDO DE APERTURA
CONTROLE AANWEZIGHEID MECHANISCHE BLOKKERINGEN EN OPENINGSRICHTING

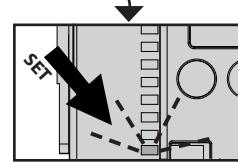
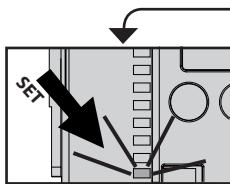
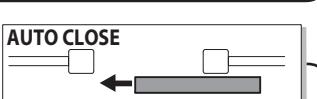
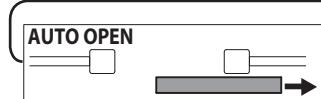
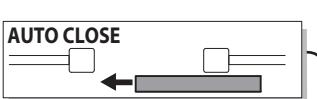
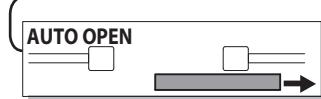
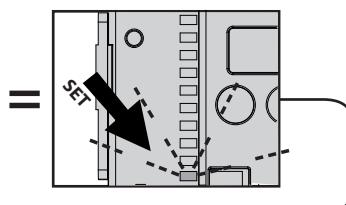
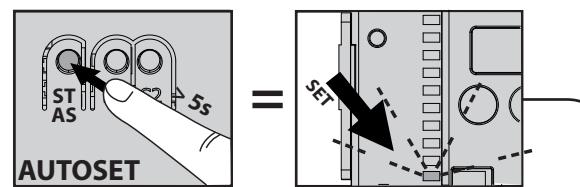
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REGOLAZIONE AUTOSET, ADJUSTING AUTOSET, RÉGLAGE AUTOSET, EINSTELLUNG AUTOSET, REGULACIÓN AUTOSET,
REGULAÇÃO AUTOSET.

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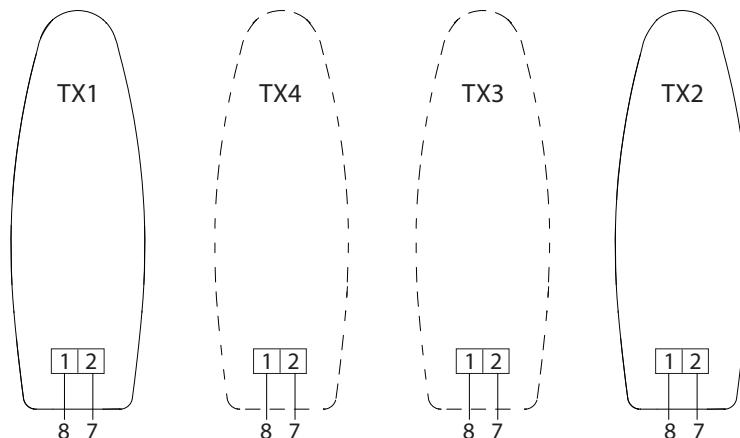
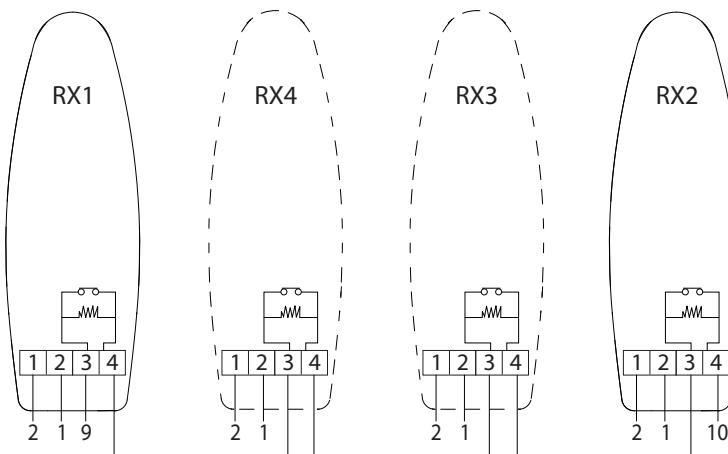
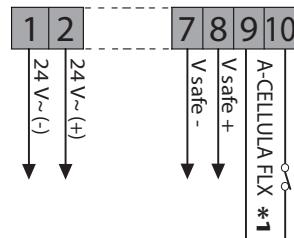
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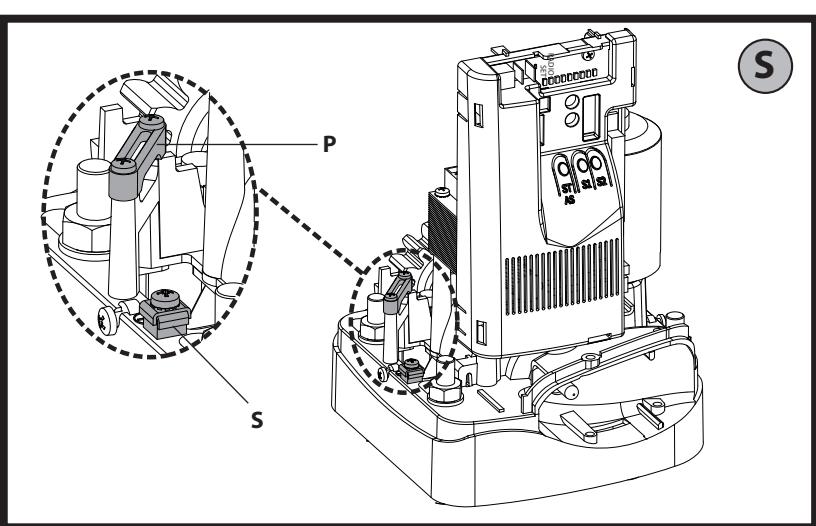
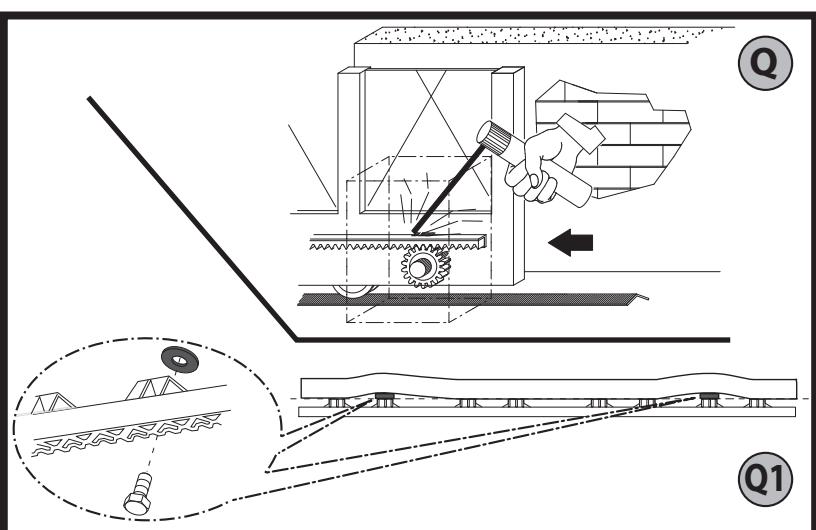
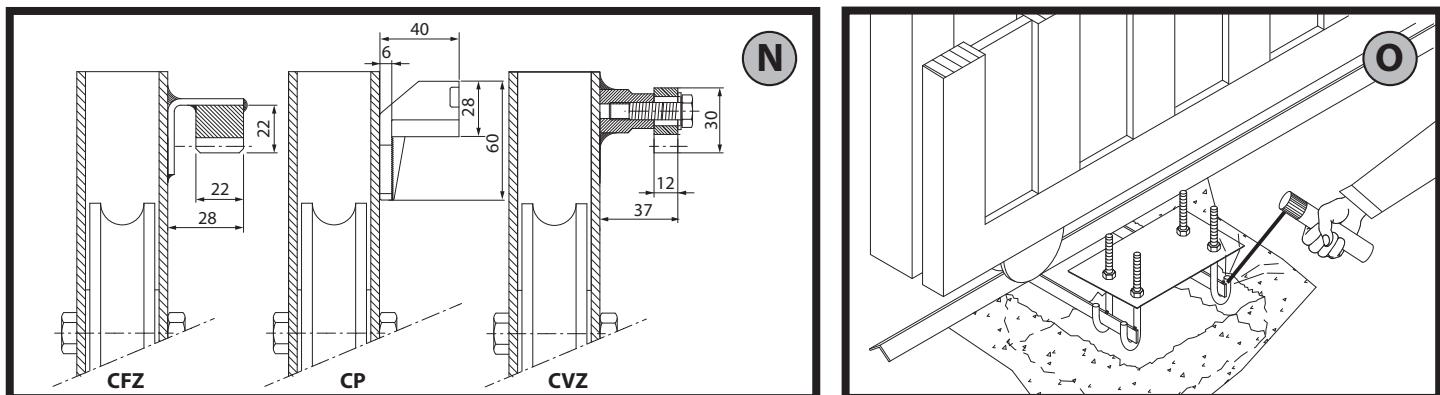
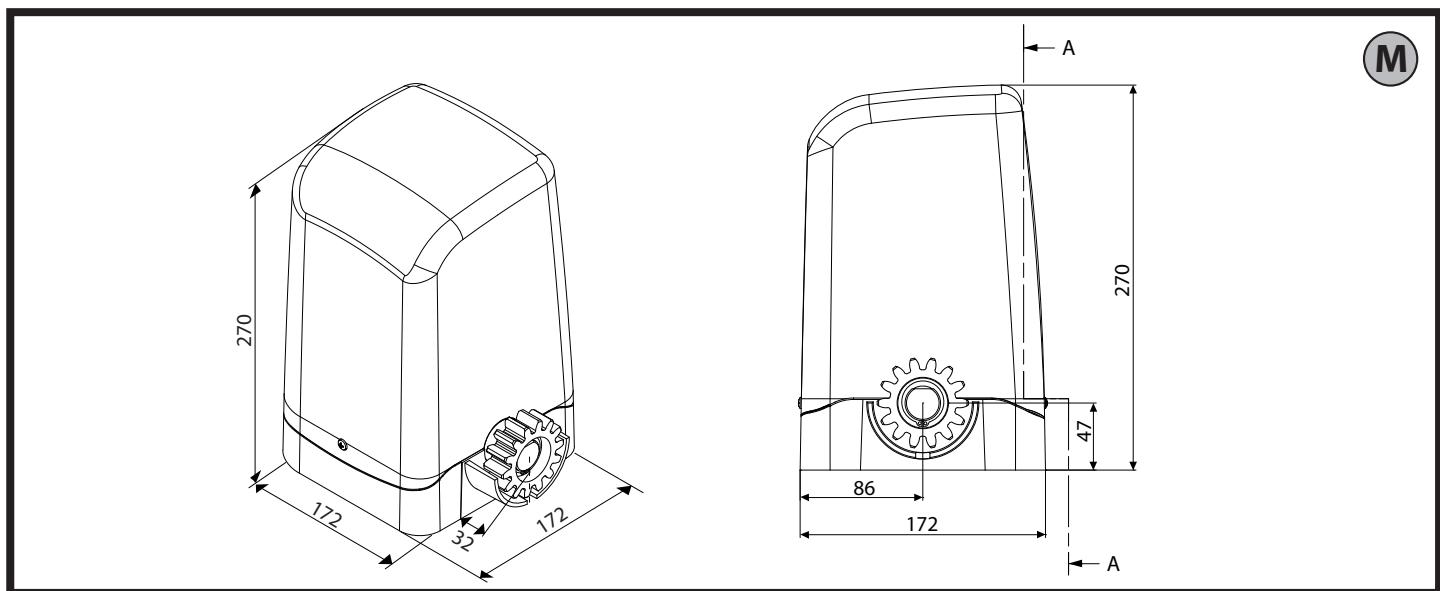
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KO

Connection diagram for several pairs (max. 4) of A-CELLULA FLX photocells



L



INSTALLER WARNINGS

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 $5 \times 1.5\text{mm}^2$ or $4 \times 1.5\text{mm}^2$ when dealing with three-phase power supplies or $3 \times 1.5\text{mm}^2$ for single-phase supplies (by way of example, type H05 VV-F cable can be used with a cross-sectional area of $4 \times 1.5\text{mm}^2$). To connect auxiliary equipment, use wires with a cross-sectional area of at least 0.5 mm^2 .

- 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 EN12453), 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.

THE DECLARATION OF CONFORMITY CAN BE VIEWED ON THIS WEBSITE: WWW.BFT.IT IN THE PRODUCT SECTION.

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.

INSTALLATION MANUAL

1) GENERAL INFORMATION

The **A 300 SL** actuator is highly versatile in terms of installation options due to the extremely low position of the pinion, the actuator's compact nature and the height and depth adjustment features it offers. The adjustable electronic torque limiter provides anti-crush safety. Manual emergency operation is extremely easy to perform using just a release lever.

The built-in control panel controls the start relays and safety devices (photocells) each time before performing any operation.

2) TECHNICAL SPECIFICATIONS

MOTOR	
Power supply	single-phase 230V ±10%, 50Hz (*)
Motor	24V ---
Power demand	50W
Max. current demand	0.4A (230V~)
Pinion module	4mm (14 teeth)
Leaf speed	13m/min
Max. leaf weight	3,000N (≈300kg)
Max. torque	10 Nm
Impact reaction	Electronic torque limiter
Lubrication	Lifetime greased
Manual operation	Release lever with CLS key
Type of use	intensive
Buffer batteries (optional extras)	Two 12V 1.2Ah batteries
Environmental conditions	from -20°C to +50°C
Protection rating	IP24
Noise level	<70dBA
Operator weight	4,4 kg
Dimensions	See Fig. M
CONTROL UNIT	
Accessories power supply	24V ~ (180 mA)
Built-in Rolling-Code radio-receiver	frequency 433.92MHz
Automatic closing time	in range 0 to 120 sec.
Leaf max.	12m.
Pedestrian opening	1 metre
Reverse pause	approx. 2s
Setting of parameters and options	Trimmers and Dip switches
N° of combinations	4 billion
Max. n° of transmitters that can be memorized	63

(*) Special supply voltages to order.

Usable transmitter versions: ((ER-Ready))
All ROLLING CODE 433.92 MHz transmitters compatible with

3) TUBE ARRANGEMENT Fig.A

Install the electrical system referring to the standards in force for electrical systems CEI 64-8, IEC 364, harmonization document HD 384 and other national standards.

4) PREPARATION FOR MOTOR MOUNTING FIG.B

- Make a hole in the ground to accommodate the concrete pad, with anchors embedded in the base plate for fastening the gearbox assembly, keeping to the distances featured in **FIG.B**.
- To keep the base plate in the right position during installation, it may be useful to weld two flat iron bars under the track to which the anchors can then be welded (**Fig. O**).

5) MOUNTING THE MOTOR FIG.C

6) MOUNTING DRIVE ACCESSORIES FIG.D

7) RACK CENTRING WITH RESPECT TO PINION FIG. P-Q1-R
DANGER - Welding must be performed by a competent person issued with the necessary personal protective equipment as prescribed by the safety rules in force Fig. Q.

8) MANUAL RELEASE (See USER GUIDE -FIG.2-).

Warning Do not JERK the gate open and closed, instead push it GENTLY to the end of its travel.

9) TERMINAL BOARD WIRING Fig. E-F

Once suitable electric cables have been run through the raceways and the automated device's various components have been fastened at the predetermined points, the next step is to connect them as directed and illustrated in the diagrams contained in the relevant instruction manuals. Connect the live, neutral and earth wire (compulsory). **FIG. S:** the mains cable must be clamped in the relevant cable gland (ref.P), while the earth wire with the yellow/green-coloured sheath must be connected in the relevant terminal (ref.S).

TERMINAL	DEFINITION	DESCRIPTION
L	L	Single-phase power supply 230V~ ±10%, 50-60Hz L LIVE N NEUTRAL
JP13 - JP14	230V~	Transformer primary winding 230V
JP4	release	Mechanical release indicator switch
JP3	motor	Connection to motor
JP2	24V~ (+)	Board power supply 24V~ (+) Transformer secondary winding 24V~ Buffer battery power supply 24V +
	0V~ (-)	0V~ (-) Transformer secondary winding 0V~ Buffer battery power supply 24V -
1	0V~ (-)	Accessories power supply: 24V~ operation with mains power on. 24V= operation with no mains power and optional buffer battery kit.
2	24V~ (-)	
3-4	START	START command input (N.O.). Operation according to 3/4-step logic
3-5	OPEN	OPEN command input (N.O.). Gate opened with this command. If the contact stays closed, the leaves stay open until the contact is opened. When the contact is open, the automated device closes following the TCA time, where activated.
3-6	STOP	STOP input (N.C.) The command stops movement. If not used, leave jumper inserted.
7	Vsafe -	Safety device power supply output (photocell transmitter). N.B.: output active only during operating cycle. 24V~ Vsafe operation with mains power on.
8	Vsafe +	24V= Vsafe operation with no mains power and optional buffer battery kit.
9	A-CELLULA FLX	A-CELLULA FLX photocell input If not used, leave jumper inserted.
10	A-CELLULA FLX	

10) MEMORIZING TRANSMITTERS Fig. G

11) CHECKING MECHANICAL STOPS ARE INSTALLED AND OPENING DIRECTION Fig.H (to be done before running AUTOSET)

12) CONNECTION DIAGRAM FOR 1 PAIR OF A-CELLULA FLX PHOTOCELLS FIG.J

13) ADJUSTING AUTOSET Fig. K

Enables Motor Torque to be set automatically.

If there is a power outage, when power is resumed the automated device will operate at autoset speed (with the SET LED flashing) until the mechanical opening and closing stops are detected.

WARNING!! The autoset operation must be performed only once you have checked that the leaf is moving accurately (opening/closing) and that the mechanical stops are positioned correctly.

You must run an autoset cycle whenever the motor force (T2) or position of the mechanical stops is changed.

WARNING! While the autoset function is running, the obstacle detection function is not active. Consequently, the installer must monitor the automated device's movements and keep people and property out of range of the automated device.

While the AUTOSET function is running, it also detects how many photocells are connected.

 **WARNING:** check the operation of each photocell, one by one, once AUTOSET has done.

 **WARNING:** the torque values set by the autoset function refer to the motor force set during the autoset cycle. If motor force is edited, an autoset opening and closing cycle will need to be performed again.

 **WARNING:** check 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.

 **Setting sensitivity incorrectly can result in damage to property and injury to people and animals.**

KEYS

Logic	Description
S1	Add Start Key associates the desired key with the Start command
S2	Add Pedestrian Key associates the desired key with the pedestrian command.
S1+ S2 >10s	Erase List  WARNING! Erases all memorized transmitters from the receiver's memory.
ST/AS	Pressed BRIEFLY, it gives the START command. HELD DOWN (>5 sec.), it activates the AUTOSET function.

INSTALLATION MANUAL

- 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 RECEIVER'S KEY CODE: this code is required to subsequently clone the radio transmitters. The Clonix built-in on-board receiver also has a number of important advanced features:

- Cloning of master transmitter (rolling code)

LED INDICATORS:

POWER	Steadily lit: - Mains power on - Board powered - Fuse F1 intact
START	Lit: - START input activated - Radio receiver 1st channel activated
OPEN	Lit: OPEN pedestrian input activated
STOP	Unlit: STOP input activated
PHOT	Unlit: PHOT photocell input activated Flashing: no photocell connected.
SWC	Unlit: SWC input activated Lit: closing limit switch is disengaged
SWO	Unlit: SWO input activated Lit: opening limit switch is disengaged
ER	Unlit: no error Lit: error in safety device test or anti-crush safety device tripped Flashing: Thermal overload protection tripped

MOTOR	Unlit: motors Stopped (Off)
	Lit: motors Moving (On)
RADIO (VERDE)	Unlit: remote programming not active
	Radio LED only flashing: Remote programming active, waiting for hidden key.
SET	Flashing in sync with Set LED: Transmitter deletion in progress
	Lit: remote programming active, waiting for desired key.
SET	Lit: Set key pressed / Autoset completed successfully
	Flashes three times: Autoset or search for mechanical stop in progress
SET	Fast flashing: Autoset failed
	Flashing in sync with Radio LED: Transmitter deletion in progress

14) CONNECTION DIAGRAM FOR SEVERAL PAIRS (MAX. 4) OF A-CELLULA FLX PHOTOCELLS FIG. L

15) ADJUSTMENT PROCEDURE

- Before turning the unit on, check electrical connections.
- Set the following parameters: Automatic Closing Time, motor force.
- Set the logics.
- Run the autoset function.

WARNING! Incorrect settings can result in damage to property and injury to people and animals.

WARNING: Check 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.

For best results, it is advisable to run the autoset function with the motors idle (i.e. not overheated by a considerable number of consecutive operations).

TABLE "A" - PARAMETERS

TRIMMER	Parameter	 min.	 max.	Description	
T1	Automatic closing time [s]	0	120	Waiting time before automatic closing. NOTE: Set to 0 if not used.	
T2	Leaf force [%]	0	99	Force exerted by leaf/leaves. This is the percentage of force delivered, beyond the force stored during the autoset cycle (and subsequently updated), before an obstacle alarm is generated. ! WARNING: It affects impact force directly: make sure that current safety requirements are met with the set value (*). Install anti-crush safety devices where necessary.	

(*) In the European Union, apply standard EN 12453 for force limitations, and standard EN 12445 for measuring method.

TABLE "B" - LOGICS

DIP	Logic	Default	Cross out setting used	Description	3 step	4 step
1	Photocells during opening	OFF	ON	In the event beam is broken, photocell operation is disabled during opening. During closing, movement is reversed immediately.		
			OFF	When beam is broken, photocells are active during both opening and closing. When beam is broken during closing, movement is reversed only once the photocell is cleared.		
2	Block pulses during opening	OFF	ON	The start pulse has no effect during opening.		
			OFF	The start pulse has effect during opening.		
3	3-step logic	OFF	ON	Switches to 3-step logic; during closing, start reverses movement.		
			OFF	Switches to 4-step logic.		
4	Transmitter programming	OFF	ON	Enables wireless memorizing of transmitters: 1- Press in sequence the hidden key and normal key (T1-T2-T3-T4) of a transmitter that has already been memorized in standard mode via the radio menu. 2- Press within 10 sec. the hidden key and 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. IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.		
			OFF	Disables wireless memorizing of transmitters. Transmitters are memorized only using the relevant Radio menu. IMPORTANT: Disables the automatic addition of new transmitters, clones and replays.		
5	Reversing motion	OFF	ON	Change this parameter if the opening direction needs to be changed (Fig.H).		
			OFF	Standard operating mode (Fig.H).		
6	Not used					

INSTALLATIEHANDLEIDING

1) ALGEMEEN

De actuator **A 300 SL** biedt een grote veelzijdigheid voor de installatie, dankzij de uiterst lage positie van de rondsels, de compacte afmetingen van de actuator en de hoogte- en diepteafstelling waarover hij beschikt. De elektronische koppelbegrenzer, instelbaar, garandeert de veiligheid tegen pletting. De handmatige noodmanoeuvre kan uiterst eenvoudig worden uitgevoerd door middel van een ontgrendelingshendel.

Het geïntegreerde bedieningspaneel voert de controle uit van de bedrijfsrelais en van de veiligheidsinrichtingen (fotocellen), alvoren iedere manoeuvre uit te voeren.

2) TECHNISCHE GEGEVENS

MOTOR	
Voeding	eenfasig 230V ±10% 50Hz (*)
Motor	24V ---
Opgenomen vermogen	50W
Max. opgenomen stroom	0,4A (230V~)
Module rondsels	4mm (14 tanden)
Snelheid vleugel	13m/min.
Max. gewicht vleugel	3.000N (≈300kg)
Max. koppel	10 Nm
Reactie op botsing	Elektronische koppelbegrenzer
Smering	Permanent vet
Handmatige manoeuvre	Ontgrendelingshendel met CLS sleutel
Soort gebruik	intensief
Noodbatterijen (optioneel)	2 batterijen van 12V 1,2Ah
Omgevingscondities	van -20°C tot + 50°C
Beschermingsgraad	IP24
Lawaaierigheid	<70dBA
Gewicht besturingseenheid	4,4 kg
Afmetingen	Zie Fig. J
CENTRALE	
Voeding accessoires	24V ~ (180 mA)
Radio-ontvanger Rolling-Code geïntegreerd	frequentie 433,92MHz
Tijd automatische sluiting	van 0 tot 120s
Vleugel max.	12 m.
Voetgangersopening	1 meter
Pauze omkeren	ca. 2 sec.
Instelling parameters en opties	Trimmer en Dip switch
Aantal combinaties	4 miljard
Max. aantal afstandsbedieningen die in het geheugen kunnen worden opgeslagen	63

(*) Speciale voedingsspanningen op aanvraag.

Bruikbare versies zenders: ((ER-Ready))
Alle zenders ROLLING CODE 433,92 MHz compatibel met

3) VOORBEREIDING LEIDINGEN FIG.A

De elektrische installatie voorbereiden onder verwijzing naar de geldende normen voor de elektrische installaties CEI 64-8, IEC364, harmonisatie HD384 en andere nationale normen.

4) VOORBEREIDING BEVESTIGING MOTOR FIG.B

- Een uitgraving voorbereiden om een cement platform uit te voeren met daarin verzonken de ankerbouten van de voetplaat voor de bevestiging van de reductiegroep, met inachtneming van de afstanden vermeld in **FIG.B**.
- Om de voetplaat in de juiste positie te houden tijdens de installatie, kan het nuttig zijn twee ijzeren plaatjes onder de rail te lassen, om daarop vervolgens de ankerbouten te lassen (**FIG. O**).

5) MONTAGE MOTOR FIG.C

6) MONTAGE ACCESSOIRES OVERBRENGING FIG.D

7) CENTRERING TANDHEUGEL T.O.V. DE RONDSELAS FIG. P-Q1-R

GEVAAR - De laswerkzaamheden dienen te worden uitgevoerd door een persoon die daartoe in staat is en is uitgerust met alle persoonlijke beschermingen voorzien door de geldende veiligheidsvoorschriften **FIG. Q**.

8) HANDMATIGE DEBLOKKERING (Zie GEBRUIKERSHANDLEIDING -FIG.2-).
Opgelet Niet HARD tegen de vleugel van het hek duwen, maar het hek BEGELEIDEN gedurende de volledige slag.

9) AANSLUITING AANSLUITKAST FIG. E-F

Na de passende elektrische kabels door de kanalen te hebben gevoerd en de verschillende componenten van het automatiseringssysteem op de vooraf gekozen punten bevestigd te hebben, wordt overgegaan tot hun aansluiting volgens de aanwijzingen en de schema's aanwezig in de desbetreffende instructiehandleidingen. De verbinding van de fase, de neutraal en de aarde uitvoeren (verplicht). **FIG. S**: De netwerkabel moet geblokkeerd worden in de daarvoor bestemde kabelklem (ref.P) en de gele/groene geïsoleerde beschermingsleiding (aarde) moet worden aangesloten in de daarvoor bestemde inspanklem (ref.S).

KLEM	DEFINITIE	BESCHRIJVING
L	L	Eénfasige voeding 230V~ ±10%, 50-60Hz
N	N	L FASE N NEUTRAAL
JP13 - JP14	230V~	Primair transformator 230V
JP4	deblokkering	Schakelaar signalering mechanische deblokkering
JP3	motor	Aansluiting op de motor
JP2	24V~ (+)	Stroomtoevoer kaart 24V~ (+) Secundair transformator 24V~ Voeding vanaf bufferbatterij 24V +
	0V~ (-)	0V~ (+) Secundair transformator 0V~ Voeding vanaf bufferbatterij 24V -
1	0V~ (-)	Voeding accessoires: 24V~ werking bij aanwezigheid van netwerk. 24 V= werking bij afwezigheid van netwerk en optionele kit bufferbatterij.
2	24V~ (-)	
3-4	START	Ingang van commando START (N.O.). Werking volgens 3-4 staps logica
3-5	OPEN	Ingang van commando OPEN (N.O.). Het commando voert een opening uit. Als het contact gesloten blijft, blijven de vleugels open tot de opening van het contact. Bij open contact gaat het automatiseringssysteem dicht na de tca-tijd, indien geactiveerd.
3-6	STOP	Ingang STOP (N.C.) Het commando onderbreekt de manoeuvre. Indien niet gebruikt, de brug niet verwijderen.
7	Vsafe -	Uitgang voeding veiligheidsinrichtingen (zender photocellen. N.B.: uitgang alleen actief tijdens de manoeuvrecyclus. 24V~ Vsafe werking bij aanwezigheid van netwerk. 24 V= Vsafe werking bij afwezigheid van netwerk en optionele kit bufferbatterij.
8	Vsafe +	
9	A-CELLULA FLX	Ingang photocellen A-CELLULA FLX
10	A-CELLULA FLX	Indien niet gebruikt, de brug niet verwijderen.

10) GEHEUGENOPSLAG AFSTANDSBEDIENING Fig. G

11) CONTROLE AANWEZIGHEID MECHANISCHE BLOKKERINGEN EN OPENINGSRICHTING Fig.H (afstellen voor de AUTOSET uit te voeren)

12) AANSLUTSCHEMA VAN 1 PAAR FOTOCELLEN A-CELLULA FLX FIG.J

13) AFSTELLING AUTOSET Fig. K

Hiermee kan de automatische instelling van het koppel van de Motoren worden uitgevoerd.

Als de stroom uitvalt dan voert het automatiseringssysteem bij het herstel van de stroom de manoeuvres met autoset snel uit (met knipperende SET led) tot aan de detectie van de mechanische openings- en sluitingsaanslagen.

OPGELET!! De autoset-handeling mag alleen worden uitgevoerd na de exacte beweging van de vleugel (opening/sluiting) en de correcte positionering van de mechanische blokkeringen gecontroleerd te hebben.

Tekens wanneer de motorkracht (T2) of de positie van de mechanische blokkeringen gewijzigd wordt, moet er een autoset worden uitgevoerd.

OPGELET!! Tijdens de autoset-fase is de functie voor obstakeldetectie niet actief; de installateur moet de beweging van het automatiseringssysteem dus controleren en voorkomen dat personen en voorwerpen in de buurt komen van de actieradius van het automatiseringssysteem of zich daarbinnen bevinden.

Tijdens de AUTOSET functie wordt ook het aantal verbonden photocellen waargenomen.

LET OP: na de AUTOSET de werking van de photocellen één voor één controleren.

LET OP: de door de autoset ingestelde koppelwaarden hebben betrekking op de tijdens de autoset ingestelde motorkracht. Als de motorkracht gewijzigd wordt, moet er een nieuwe autoset manoeuvre worden uitgevoerd.

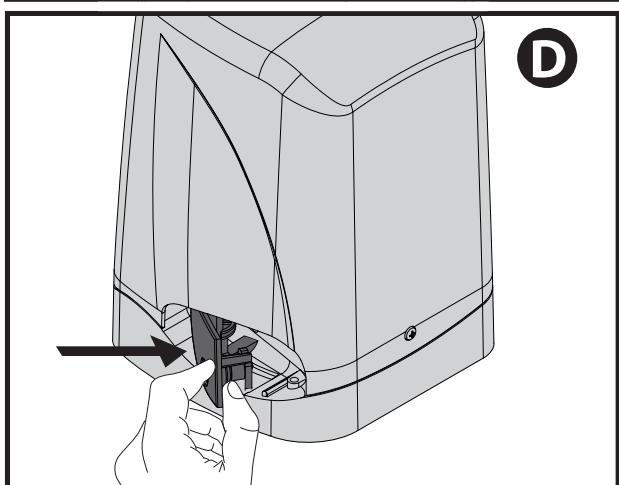
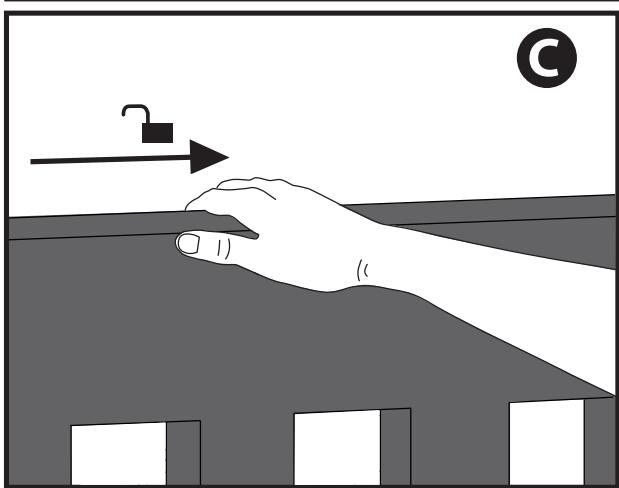
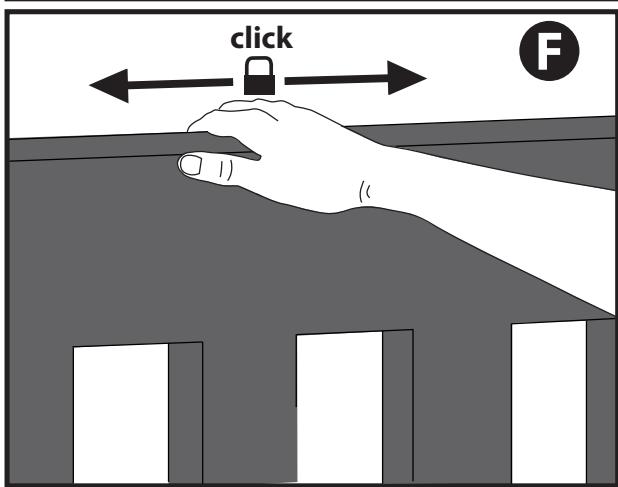
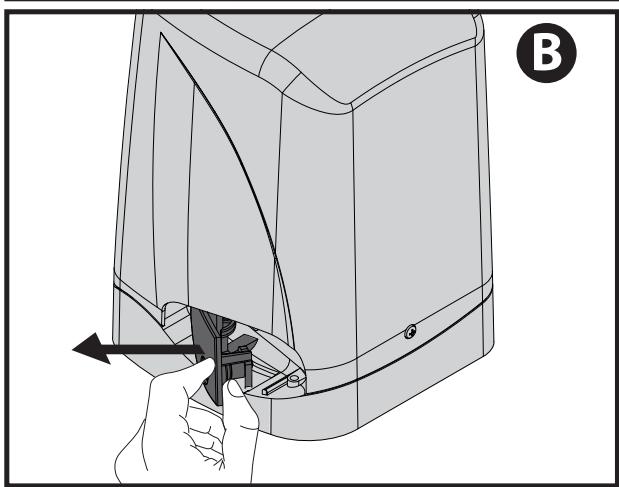
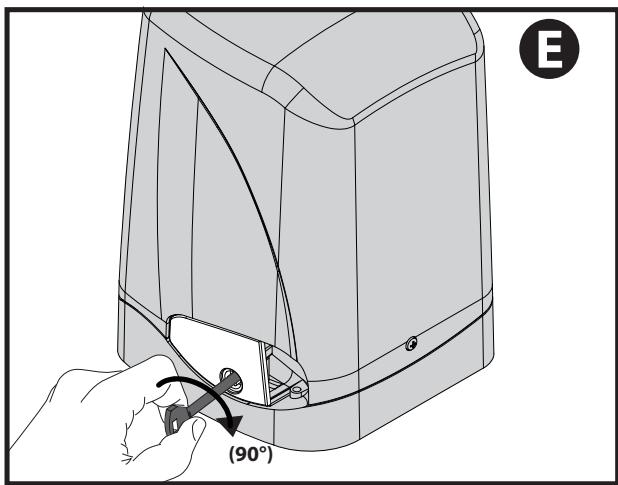
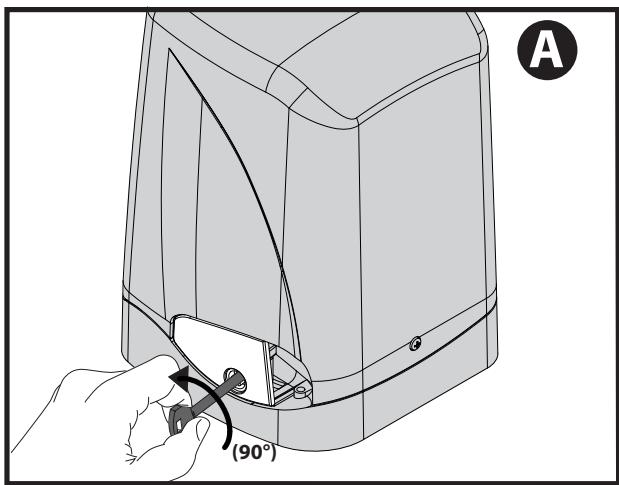
LET OP: controleren of de waarde van de debotsingskracht gemeten in de punten voorzien door de norm EN12445, lager is dan hetgeen aangegeven in de norm EN 12453.

Een verkeerde instelling van de gevoeligheid kan leiden tot schade aan personen, dieren of voorwerpen.

TOETSEN

Logica	Beschrijving
S1	Toets start toevoegen associeert de gewenste toets met het Start-commando
S2	Voetgangerstoets toevoegen associeert de gewenste toets met het Voetgangerscommando
S1+ S2 >10s	Lijst Verwijderen OPGELET! Hiermee worden alle opgeslagen afstandsbedieningen volledig uit het geheugen van de ontvanger verwijderd.
ST/AS	KORT indrukken bestuurt een START. LANG indrukken (>5s) activeert de AUTOSET.

FIG. 2



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.



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.

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.

AVERTISSEMENTS 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 conforme aux normes reconnues de la technique et des prescriptions de sécurité.

Si l'automatisation est montée et utilisée correctement, elle garantit la sécurité d'utilisation prescrite. Il est cependant nécessaire de respecter certaines règles de comportement pour éviter tout inconvénient accidentel.

- Tenir les enfants, les personnes et les objets à l'écart du rayon d'action de l'automatisation, en particulier pendant son fonctionnement.
- Empêcher les enfants de jouer ou de stationner dans le rayon d'action de l'automatisation.