





OPERATORE ELETTROMECCANICO PER CANCELLI A BATTENTE ELECTROMECHANICAL OPERATOR FOR SWING GATES OPERATEUR ELECTROMECANIQUE POUR PORTAILS A BATTANT OPERADOR ELECTROMECÁNICO PARA CANCELAS A BATIENTE



MANUALE D'INSTALLAZIONE e informazioni sulla sicurezza

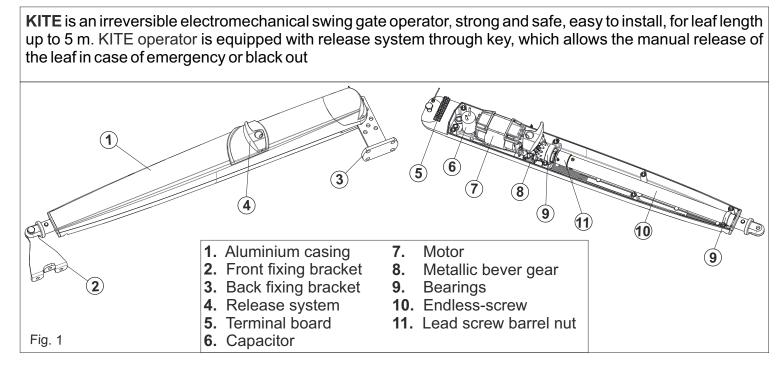
INSTALLATION MANUAL and safety information

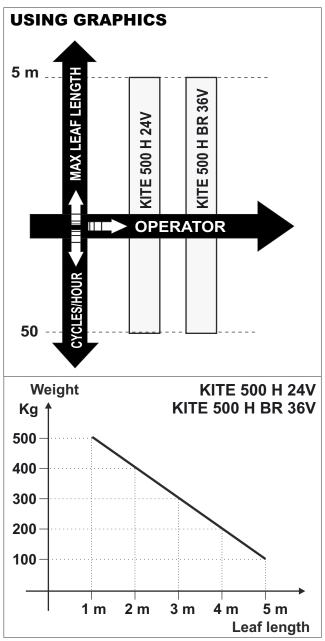
SEA S.p.A.

Zona industriale Sant'Atto - 64100 - Teramo - ITALY Tel. +39 0861 588341 r.a. Fax +39 0861 588344 www.seateam.com



TECHNICAL SPECIFICATIONS

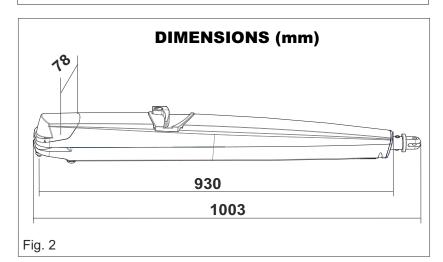




TECHNICAL DATA	KITE 500 H 24V	KITE 500 H BR 36V
Power supply	24Vcc	36Vcc
Max. Power	60 W	260 W
Max. Absorbed current	2,5 A	1 A
Stroke	400 mm *	
Speed	ADJUSTABLE (MAX. 16")	ADJUSTABLEE (MAX. 15")
Cycle/hour (operating at 20°C)	50	
Operating temperature	-20°C 🖌	+55°C
Anti-crushing Clutch	ELECTRONIC	
Max. thrust	1800 N	3000 N
Operator weight	7,8 Kg	
Protection Class	lp 44	
Max. Leaf length	5 m	
Max. Leaf weight	500 Kg	

Note: The frequency of use is valid only for the first hour at 20°C room temperature

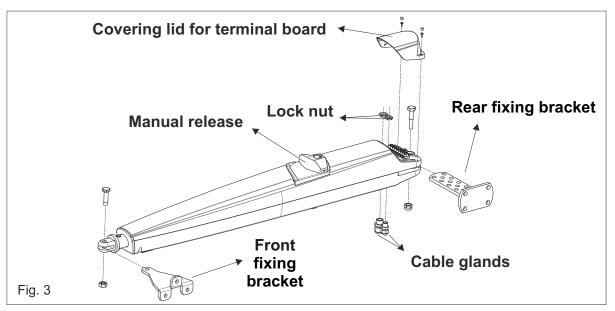
* 370 mm with magnetic limit switch







MAIN PARTS

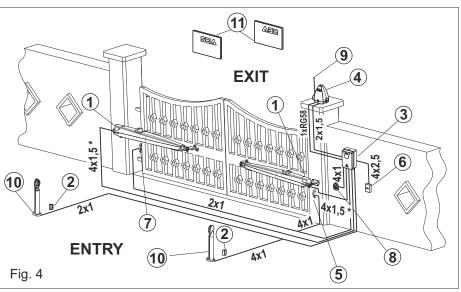


STANDARD INSTALLATION



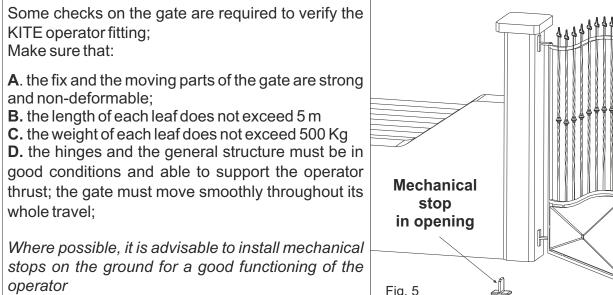
- 2) Mechanical stop
- 3) Electronic control unit
- 4) Flashing lamp
- 5) Right Photocell (Dx)
- 6) Differential switch 16A 0,03A
- 7) Left Photocell (Sx)
- 8) Start/Stop push button with key
- 9) Antenna
- 10) Support for photocells
- 11) Warning notice

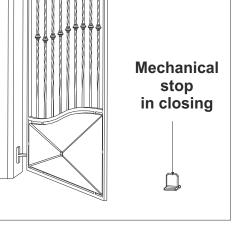
* For KITE 24V operator use 2x2,5 cables type to connect the motors to the control unit



GATE ARRANGEMENT

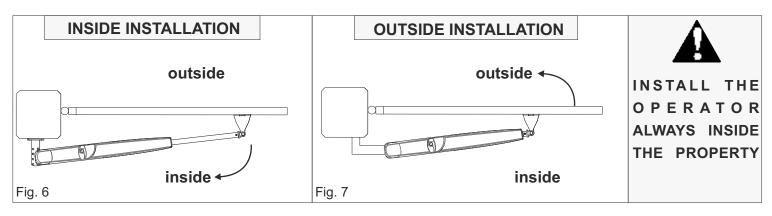
Fig. 5



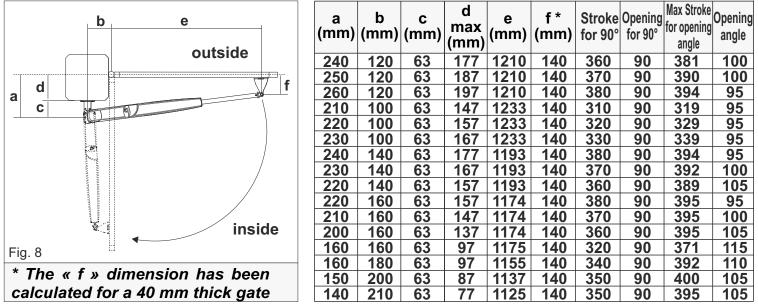




INSTALLATION TYPE

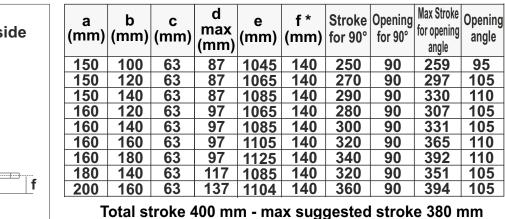


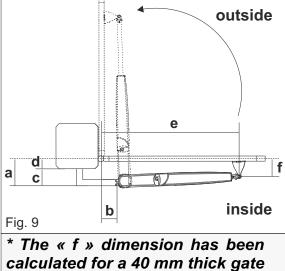
INWARD INSTALLATION



Total stroke 400 mm - max suggested stroke 380 mm

OUTWARD INSTALLATION



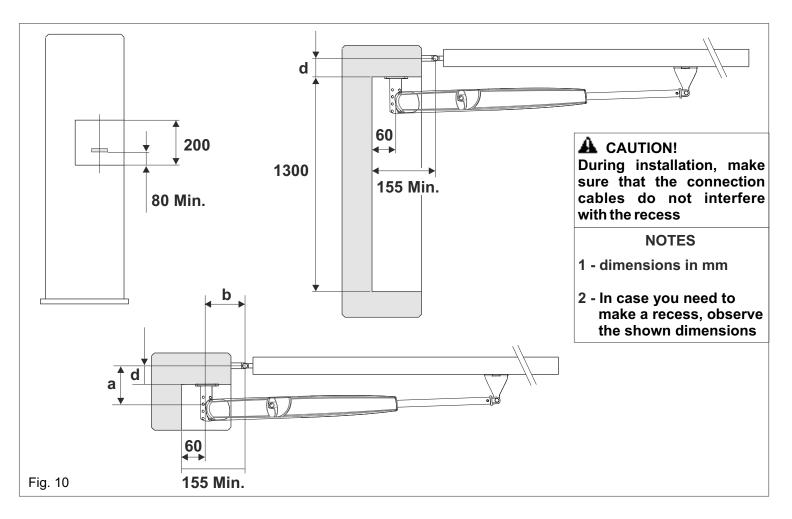


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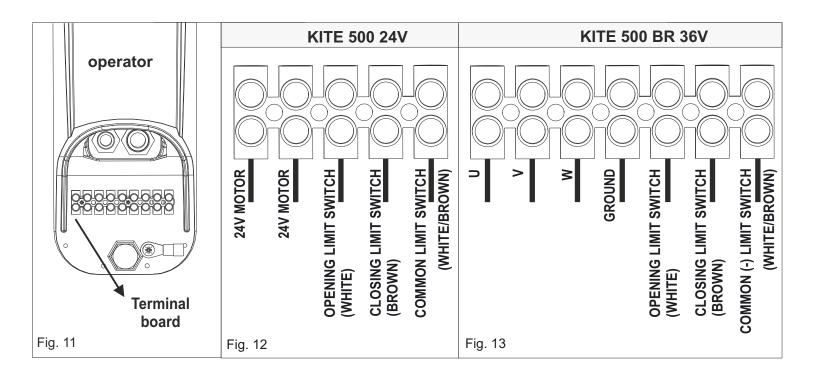
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INSTALLATION ON MASONRY PILLARS, MAKING A RECESS



CONNECTIONS

make connections only after installation is complete and when the power supply is OFF





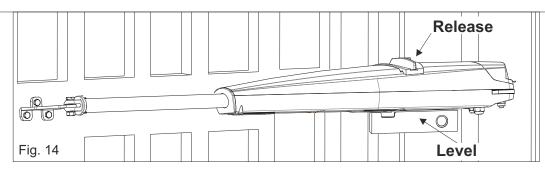


A PRELIMINARY NOTES

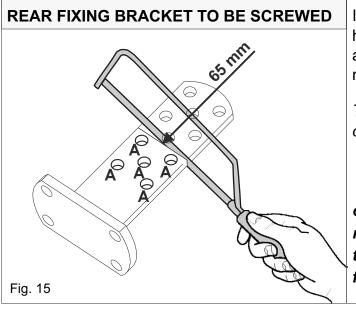
1 - For the correct operation it is very important to position both the operator and its front and rear fixing brackets, in a perfectly horizontal way, by using a level, as shown in Fig. 14

2 - Before mounting operator on the rear and the front brackets, lubricate with water repellent grease

3 - The operator must be mounted with the release facing upwards (Fig. 14)



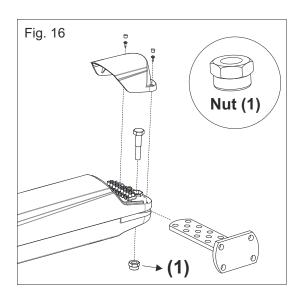
REAR FIXING BRACKET MOUNTING

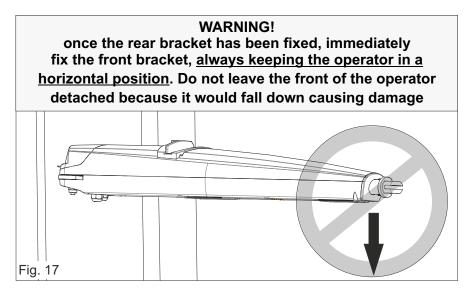


If the rear fixing bracket has to be screwed using the holes marked as **«A»**, so the fixing bracket must be cut at a distance of 65 mm from its end (Fig. 15). It is not necessary to cut the bracket if using other holes

The support must be positioned so that the operator is in a perfect horizontal position (see Fig.14)

CAUTION! To avoid the oscillation of the operator during the operating phase, it is recommended to adjust the nut (1) (Fig. 16) taking care to not block the rotation of the operator on the fixing bracket







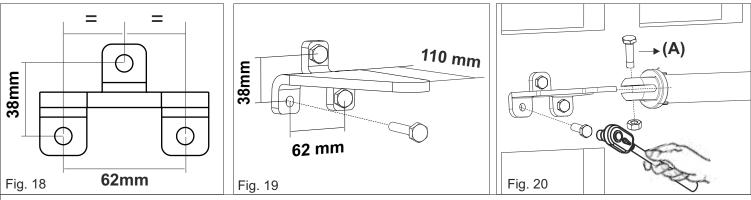


A PRELIMINARY NOTES

- 1 According to the gate type (wood, iron, aluminium) the front bracket can be welded or screwed
- 2 Before mounting the rear and the front fixing brackets, lubricate with water repellent grease
- 3 The operator must be mounted with the release facing upwards (Fig. 14)

FRONT FIXING BRACKET MOUNTING

SCREWED FRONT FIXING BRACKET



Once the operator has been mounted on the rear fixing bracket, **close the leaf** and proceed as follows:

1) Release the operator keeping it always in a horizontal position

2) Screw the front fixing bracket onto the gate in correspondence of the holes made respecting the dimensions as per Fig. 18 and Fig. 19

3) Insert the bracket into the housing pin on the operator (Fig. 20) and tighten the «A» screw to max 8.5 Nm

CAUTION: Lubricate the pin with grease before installing the front fixing bracket on the operator

WELDED FRONT FIXING BRACKET

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Fig. 21

110 mm

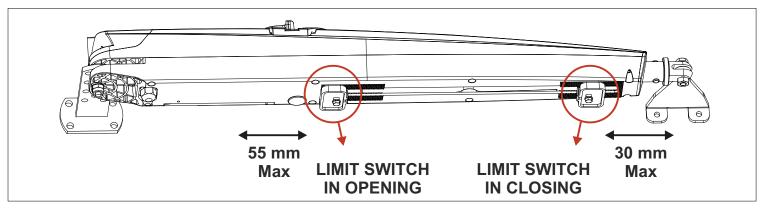
Once the operator has been mounted on the rear fixing bracket, **close the leaf** and proceed as follows:

Release the operator keeping it always in a horizontal position
Weld the front fixing bracket on the gate operating on the points indicated by the arrows (Fig. 21)

3) Insert the bracket into the housing pin on the operator (Fig. 20) and tighten the **«A»** screw to max 8.5 Nm

CAUTION: Lubricate the pin with grease before installing the front fixing bracket on the operator

MAGNETIC LIMIT SWITCHES





TO THE ATTENTION OF THE TECHNICIAN AND THE END-USER

INTERNAL METAL RELEASE SYSTEM

TO RELEASE THE OPERATOR:

1) Turn counter-clockwise the lock protection cover (Fig. 22)

2) Insert the key and turn of about 90° clockwise (Fig. 23)

3) Turn the handle counter-clockwise to release the operator (Fig. 24)

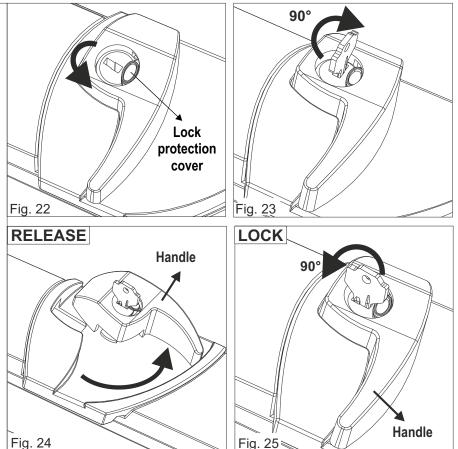
TO LOCK THE OPERATOR:

1) Turn the handle clockwise to revert it to the initial position

2) Turn the key about 90° counterclockwise (Fig. 25)

3) After having relocked the operator, close the lock protection cover to prevent damages due to atmospheric agents

NOTE: for a proper operation of the manual release it is recommended to observe the current regulations regarding the thrust force



PERIODIC MAINTENANCE

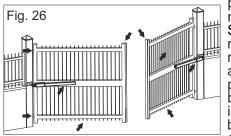
ALL OPERATIONS MUST BE MADE EXCLUSIVELY BY AN AUTHORIZED INSTALLER AND WHEN POWER SUPPLY IS OFF				
1	Check the robustness and the stability of the gate, especially of the points of support and/or the gate points of rotation (pivots)	YEARLY		
2	Check the release system function	YEARLY		
3	Check and grease the fixing pivots and the endless screw	YEARLY		
4	Check the integrity of the connection cables	YEARLY		
5	Verify the function and the conditions of the mechanical stops in opening and closing	YEARLY		
6	Verify the good condition of all mechanism subject to stress (as front and rear fixing brackets)	YEARLY		
7	Check the function of all accessories, in particular of all safety devices	YEARLY		
AFTER THE PERIODICAL MAINTENANCE OPERATIONS IT IS NECESSARY TO REPEAT THE TEST OF THE AUTOMATION AND ITS COMMISSIONING				



TO THE ATTENTION OF THE TECHNICIAN AND THE END-USER

RISK EXAMINATION

The points pointed by arrows in Fig. 26 are potentially dangerous. The installer must take a thorough risk examination to prevent crushing, conveying, cutting, grappling, trapping so as to guarantee a safe installation for people, things and animals (Re. Laws in force in the Country where installation has been made). As for misunderstandings that may arise refer to your area distributor or call our help desk. These instructions are part of the device and must be kept in a well known



place. The installer shall follow the provided instructions thoroughly. SEA products must only be used to automate doors, gates and wings. Any initiative taken without SEA explicit authorization will preserve the manufacturer from whatsoever responsibility. The installer shall provide warning notices on not assessable further risks. SEA in its relentless aim to improve the products, is allowed to make whatsoever adjustment without giving notice. This doesn't oblige SEA to upgrade the past production. SEA can not be deemed responsible for any damage or accident caused by product breaking, being damages or accidents due to a failure to comply with the instructions herein. The guarantee will be void and the manufacturer responsibility will be nullified if SEA original spare parts are not being used. The electrical installation shall be carried out by a professional technician who will release documentation as

requested by the laws in force. Packaging materials such as plastic bags, foam polystyrene, nails etc must be kept out of children's reach as dangers may arise.

INITIAL TEST AND STARTING OF THE AUTOMATION: After having completed the necessary operations for a correct installation of the product and after having evaluated all the risks which could arise in any installation, <u>it is necessary to</u> <u>test the automation to guarantee the maximum security and, in particular, to guarantee that the laws in force are fully respected</u>. The first Start must be executed according to the rule **EN 12445** which establishes the methods of tests for checking the gate automation respecting the limits established by the rule **EN 12453**.

SAFETY PRECAUTIONS: All electrical work should comply with the current regulations. A 16A / 0,030 differential switch must be used. Separate the source cables (operators, power supply) and command cables (photocells, push-buttons, etc). Be sure the entire system is properly earth bonded. Always run cables in separate ducts to prevent interferences.

INTENDED USE: The operator has been designed to be used for the automation of swing gates only.

SPARE PARTS: Send request for spare parts to: SEA S.p.A. - Teramo - ITALY - www.seateam.com

SAFETY AND ENVIRONMENTAL COMPATIBILITY: Don't waste product packing materials and/or circuits.

STORAGE: Materials must be properly packaged, handled with care and with appropriate vehicles;

WARRANTY LIMITS - see the sales conditions

MAINTENANCE AND DECOMMISION: must only be carried out by specialised and authorised personnel. **THE MANUFACTURER CAN NOT BE DEEMED RESPONSIBLE FOR ANY DAMAGE OR INJURY CAUSED BY IMPROPER USE OF THIS PRODUCT**; SEA S.p.A. reserves the right to make any required modification or change to the products and/or to this manual without any advanced notice obligation.

GENERAL NOTICE FOR THE INSTALLER AND THE USER

1. **Read carefully these Instructions** before beginning to install the product. Store these instructions for future reference 2. Don't waste product packaging materials and /or circuits.

3. This product was designed and built strictly for the use indicated. Any other use could compromise the condition and the operation of the product or be a source of danger. SEA S.p.A. declines all liability caused by improper or different use in respect to the intended one.

4. The mechanical parts must be comply with: Machine Regulation 2006/42/CE and following adjustments, Low Tension (2006/95/CE), Electromgnetic Consistency (2004/108/CE). Installation must respect Directives: EN12453 and EN12445. 5. Do not install the equipment in an explosive atmosphere.

6. SEA S.p.A. is not responsible for failure to observe Good Techniques in the construction of the locking elements to motorize, or for any deformation that may occur during use.

7. Before attempting any job on the system, cut out electrical power and disconnect the batteries. Be sure that the earthing system is perfectly constructed, and connect it metal parts of the lock.

8. Use of the indicator-light is recommended for every system, as well as a warning sign well-fixed to the frame structure.

9. SEAS.p.A. declines all liability concerning system security and efficiency, if components used are not produced by SEA 10. For maintenance, strictly use original parts by SEA.

11. Do not modify in any way the components of the automated system.

12. The installer shall supply all information concerning system's manual functioning in case of emergency, and shall hand over to the user the warnings handbook supplied with the product.

13. Do not allow children or adults to stay near the product while it is operating. The application cannot be used by children, by people with reduced physical, mental or sensorial capacity, or by people without experience or necessary training. Keep remote controls or other pulse generators away from children, to prevent involuntary activation of the system. 14. Transit through the leaves is allowed only when the gate is fully open.

15. The User must not attempt to repair or to take direct action on the system and must solely contact qualified SEA personnel or SEA service centers. User can apply only the manual function of emergency.

16. The power cables maximum length between the control unit and motors should not be greater than 10 m. Use cables with 2,5 mm² section. Use double insulation cable (cable sheath) close to the terminals, in particular for the 230V cable. Keep an adequate distance (at least 2.5 mm in air), between low voltage (230V) cables and safety low voltage cables (SELV) or use an appropriate sheath that provides extra insulation having a thickness of 1 mm



DECLARATION OF CONFORMITY DICHIARAZIONE DI CONFORMITÀ

SEA S.p.A. declares under its proper responsability and, if applicable, under the responsability of its authorised representative that, by installing the appropriate safety equipment and noise filtering, the products:

La SEA S.p.A. dichiara sotto la propria responsabilità e, se applicabile, del suo rappresentante autorizzato che, con l'installazione degli adeguati dispositivi di sicurezza e di filtraggio disturbi, i prodotti:

DESCRIPTION - DESCRIZIONE	MODEL - MODELLO	TRADEMARK - MARCA
KITE 500 230V	11010000IV	SEA
(and all its by-products - e tutti i suoi derivati) KITE 500 H 24V	11010202	SEA
(and all its by-products - e tutti i suoi derivati) KITE 500 H BR	11010007	SEA
(AND ALL ITS BY-PRODUCTS - E TUTTI I SUOI DERIVATI)		

are built to be integrated into a machine or to be assembled with other machinery to create a machine under the provisions of Directive 2006/42/CE sono costruiti per essere incorporati in una macchina o per essere assemblati con altri macchinari per

sono costruiti per essere incorporati in una macchina o per essere assemblati con altri macchinari per costruire una macchina ai sensi della Direttiva 2006/42/CE

are conforming to the essential safety requirements related to the products within the field of applicability of the Community Directives 2014/35/UE and 2014/30/UE sono conformi ai requisiti essenziali di sicurezza relativi ai prodotti entro il campo di applicabilità delle Direttive Comunitarie 2014/35/UE e 2014/30/UE

THE MANUFACTURER OR THE AUTHORIZED REPRESENTATIVE IL COSTRUTTORE O IL RAPPRESENTATE AUTORIZZATO

SEA S.P.A. Zona Industriale Sant'Atto 64100 - Teramo - Italy + 39 0 861 588341 www.seateam.com

PLACE AND DATE OF ISSUE LUOGO E DATA DI EMISSIONE

Тегамо, 24/11/2021



CERTIFICATE OF WARRANTY EXTENTION CERTIFICATO DI ESTENSIONE GARANZIA

PRODUCT DESCRIPTION - DESCRIZIONE PROD	<u>)OTTO</u>				
MODEL - MODELLO					
NO. PIECES - Nº PEZZI					
Serial Numbers - Numeri Seriali					
INVOICE NO. AND DATE - N° E DATA FATTUR	(A				
INSTALLATION DATE - DATA INSTALLAZIONE					
Control unit - Scheda Elettronica	SEA	Other Brand - Altra Marca 🗌			
PHOTOCELLS - FOTOCELLULE	SEA	Other Brand - Altra Marca 🗌			
Tx/Rx	SEA	Other Brand - Altra Marca 🗌			
OTHER ACCESSORIES - ALTRI ACCESSORI	SEA	Other Brand - Altra Marca 🗌			
INSTALLER - INSTALLATORE					
Company Name - Ragione Sociale					
V.A.T P. IVA					
Address - Indirizzo					
CONTACT PERSON - REFRENTE					
END-USER - UTENTE					
FIRST & FAMILY NAME - NOME & COGNOME					
INSTALLATION ADDRESS - INDIRIZZO INSTALLAZIONE					

The extension of the legal standard warranty of 12 months to 24 months or to 36 months is valid only if the present form is returned by e-mail to SEA S.p.A within 15 days from the date of purchase. It is necessary to attach the invoice to the present form

L'estensione della garanzia legale di 12 mesi a 24 mesi o 36 mesi è valida solo se il presente modulo viene rispedito via e-mail a SEA S.p.A. entro 15 giorni dalla data di acquisto. È necessario allegare la relativa fattura d'acquisto al presente modulo

COPY TO BE RETURNED COPIA DA RESTITUIRE

PLACE & DATE - LUOGO & DATA

STAMP & SIGNATURE - TIMBRO & FIRMA .

For the Installer - Per L'Installatore Agreement to the GDPR EU Regulation No. 679/2016 (Privacy) Firma per il trattamento dei dati personali ai sensi del Regolamento UE 679/2016 PLACE & DATE - LUOGO & DATA

STAMP & SIGNATURE - TIMBRO & FIRMA



Automatic Gate Openers

International registered trademark n. 804888

SEA S.p.A.

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