

# LYNX 06

230V / 115V



## GENIUS<sup>®</sup>

COMPANY  
WITH QUALITY SYSTEM  
CERTIFIED BY DNV  
= UNI EN ISO 9001/2000 =



## ITALIANO

### AVVERTENZE PER L'INSTALLATORE OBBLIGHI GENERALI PER LA SICUREZZA



**ATTENZIONE! È importante per la sicurezza delle persone seguire attentamente tutta l'istruzione. Una errata installazione o un errato uso del prodotto può portare a gravi danni alle persone.**

1. Leggere attentamente le istruzioni prima di iniziare l'installazione del prodotto.
2. I materiali dell'imballaggio (plastica, polistirolo, ecc.) non devono essere lasciati alla portata dei bambini in quanto potenziali fonti di pericolo.
3. Conservare le istruzioni per riferimenti futuri.
4. Questo prodotto è stato progettato e costruito esclusivamente per l'utilizzo indicato in questa documentazione. Qualsiasi altro utilizzo non espressamente indicato potrebbe pregiudicare l'integrità del prodotto e/o rappresentare fonte di pericolo.
5. GENIUS declina qualsiasi responsabilità derivata dall'uso improprio o diverso da quello per cui l'automatismo è destinato.
6. Non installare l'apparecchio in atmosfera esplosiva: la presenza di gas o fumi infiammabili costituisce un grave pericolo per la sicurezza.
7. Gli elementi costruttivi meccanici devono essere in accordo con quanto stabilito dalle Norme EN 12604 e EN 12605.
8. Per i Paesi extra-CEE, oltre ai riferimenti normativi nazionali, per ottenere un livello di sicurezza adeguato, devono essere seguite le Norme sopra riportate.
9. GENIUS non è responsabile dell'inosservanza della Buona Tecnica nella costruzione delle chiusure da motorizzare, nonché delle deformazioni che dovessero intervenire nell'utilizzo.
10. L'installazione deve essere effettuata nell'osservanza delle Norme EN 12453 e EN 12445. Il livello di sicurezza dell'automazione deve essere C+D.
11. Prima di effettuare qualsiasi intervento sull'impianto, togliere l'alimentazione elettrica e scollegare le batterie.
12. Prevedere sulla rete di alimentazione dell'automazione un interruttore onnipolare con distanza d'apertura dei contatti uguale o superiore a 3 mm. È consigliabile l'uso di un magnetotermico da 6A con interruzione onnipolare.
13. Verificare che a monte dell'impianto vi sia un interruttore differenziale con soglia da 0,03 A.
14. Verificare che l'impianto di terra sia realizzato a regola d'arte e collegarvi le parti metalliche della chiusura.
15. L'automazione dispone di una sicurezza intrinseca antischiacciamento costituita da un controllo di coppia. È comunque necessario verificarne la soglia di intervento secondo quanto previsto dalle Norme indicate al punto 10.
16. I dispositivi di sicurezza (norma EN 12978) permettono di proteggere eventuali aree di pericolo dai rischi meccanici di movimento, come ad es. schiacciamento, convogliamento, cesoiamento.
17. Per ogni impianto è consigliato l'utilizzo di almeno una segnalazione luminosa nonché di un cartello di segnalazione fissato adeguatamente sulla struttura dell'infisso, oltre ai dispositivi citati al punto "14".
18. GENIUS declina ogni responsabilità ai fini della sicurezza e del buon funzionamento dell'automazione, in caso vengano utilizzati componenti dell'impianto non di produzione GENIUS.
19. Per la manutenzione utilizzare esclusivamente parti originali GENIUS.
20. Non eseguire alcuna modifica sui componenti facenti parte del sistema d'automazione.
21. L'installatore deve fornire tutte le informazioni relative al funzionamento manuale del sistema in caso di emergenza e consegnare all'utente utilizzatore dell'impianto il libretto d'avvertenze allegato al prodotto.
22. Non permettere ai bambini o persone di sostare nelle vicinanze del prodotto durante il funzionamento.
23. L'applicazione non può essere utilizzata da bambini, da persone con ridotte capacità fisiche, mentali, sensoriali o da persone prive di esperienza o del necessario addestramento.
24. Tenere fuori dalla portata dei bambini radiocomandi o qualsiasi altro datore di impulso, per evitare che l'automazione possa essere azionata involontariamente.
25. Il transito tra le ante deve avvenire solo a cancello completamente aperto.
26. L'utente utilizzatore deve astenersi da qualsiasi tentativo di riparazione o intervento e deve rivolgersi solo ed esclusivamente al personale qualificato GENIUS o centri d'assistenza GENIUS.
27. Tutto quello che non è previsto espressamente in queste istruzioni non è permesso.

## ENGLISH

### IMPORTANT NOTICE FOR THE INSTALLER GENERAL SAFETY REGULATIONS



**ATTENTION! To ensure the safety of people, it is important that you read all the following instructions. Incorrect installation or incorrect use of the product could cause serious harm to people.**

1. Carefully read the instructions before beginning to install the product.
2. Do not leave packing materials (plastic, polystyrene, etc.) within reach of children as such materials are potential sources of danger.
3. Store these instructions for future reference.
4. This product was designed and built strictly for the use indicated in this documentation. Any other use, not expressly indicated here, could compromise the good condition/operation of the product and/or be a source of danger.
5. GENIUS declines all liability caused by improper use or use other than that for which the automated system was intended.
6. Do not install the equipment in an explosive atmosphere: the presence of inflammable gas or fumes is a serious danger to safety.
7. The mechanical parts must conform to the provisions of Standards EN 12604 and EN 12605.
8. For non-EU countries, to obtain an adequate level of safety, the Standards mentioned above must be observed, in addition to national legal regulations.
9. GENIUS is not responsible for failure to observe Good Technique in the construction of the closing elements to be motorised, or for any deformation that may occur during use.
10. The installation must conform to Standards EN 12453 and EN 12445. The safety level of the automated system must be C+D.
11. Before attempting any job on the system, cut out electrical power and disconnect the batteries.
12. The mains power supply of the automated system must be fitted with an all-pole switch with contact opening distance of 3mm or greater. Use of a 6A thermal breaker with all-pole circuit break is recommended.
13. Make sure that a differential switch with threshold of 0.03 A is fitted upstream of the system.
14. Make sure that the earthing system is perfectly constructed, and connect metal parts of the means of the closure to it.
15. The automated system is supplied with an intrinsic anti-crushing safety device consisting of a torque control. Nevertheless, its tripping threshold must be checked

as specified in the Standards indicated at point 10.

16. The safety devices (EN 12978 standard) protect any danger areas against mechanical movement risks, such as crushing, dragging, and shearing.
17. Use of at least one indicator-light is recommended for every system, as well as a warning sign adequately secured to the frame structure, in addition to the devices mentioned at point "14".
18. GENIUS declines all liability as concerns safety and efficient operation of the automated system, if system components not produced by GENIUS are used.
19. For maintenance, strictly use original parts by GENIUS.
20. Do not in any way modify the components of the automated system.
21. The installer shall supply all information concerning manual operation of the system in case of an emergency, and shall hand over to the user the warnings handbook supplied with the product.
22. Do not allow children or adults to stay near the product while it is operating.
23. The application cannot be used by children, by people with reduced physical, mental, sensorial capacity, or by people without experience or the necessary training.
24. Keep remote controls or other pulse generators away from children, to prevent the automated system from being activated involuntarily.
25. Transit through the leaves is allowed only when the gate is fully open.
26. The User must not in any way attempt to repair or to take direct action and must solely contact qualified GENIUS personnel or GENIUS service centres.
27. Anything not expressly specified in these instructions is not permitted.

## FRANÇAIS

### CONSIGNES POUR L'INSTALLATEUR RÈGLES DE SÉCURITÉ



**ATTENTION! Il est important, pour la sécurité des personnes, de suivre à la lettre toutes les instructions. Une installation erronée ou un usage erroné du produit peut entraîner de graves conséquences pour les personnes.**

1. Lire attentivement les instructions avant d'installer le produit.
2. Les matériaux d'emballage (matière plastique, polystyrène, etc.) ne doivent pas être laissés à la portée des enfants car ils constituent des sources potentielles de danger.
3. Conserver les instructions pour les références futures.
4. Ce produit a été conçu et construit exclusivement pour l'usage indiqué dans cette documentation. Toute autre utilisation non expressément indiquée pourrait compromettre l'intégrité du produit et/ou représenter une source de danger.
5. GENIUS décline toute responsabilité qui dériverait d'un usage impropre ou différent de celui auquel l'automatisme est destiné.
6. Ne pas installer l'appareil dans une atmosphère explosive: la présence de gaz ou de fumées inflammables constitue un grave danger pour la sécurité.
7. Les composants mécaniques doivent répondre aux prescriptions des Normes EN 12604 et EN 12605.
8. Pour les Pays extra-CEE, l'obtention d'un niveau de sécurité approprié exige non seulement le respect des normes nationales, mais également le respect des Normes susmentionnées.
9. GENIUS n'est pas responsable du non-respect de la Bonne Technique dans la construction des fermetures à motoriser, ni des déformations qui pourraient intervenir lors de l'utilisation.
10. L'installation doit être effectuée conformément aux Normes EN 12453 et EN 12445.
11. Couper l'alimentation électrique et déconnecter la batterie avant toute intervention sur l'installation.
12. Prévoir, sur le secteur d'alimentation de l'automatisme, un interrupteur onnipolaire avec une distance d'ouverture des contacts égale ou supérieure à 3 mm. On recommande d'utiliser un magnétothermique de 6A avec interruption onnipolaire.
13. Vérifier qu'il y ait, en amont de l'installation, un interrupteur différentiel avec un seuil de 0,03 A.
14. Vérifier que la mise à terre est réalisée selon les règles de l'art et y connecter les pièces métalliques de la fermeture.
15. L'automatisme dispose d'une sécurité intrinsèque anti-écrasement, formée d'un contrôle du couple. Il est toutefois nécessaire d'en vérifier le seuil d'intervention suivant les prescriptions des Normes indiquées au point 10.
16. Les dispositifs de sécurité (norme EN 12978) permettent de protéger des zones éventuellement dangereuses contre les risques mécaniques du mouvement, comme l'écrasement, l'acheminement, le cisaillement.
17. On recommande que toute installation soit dotée au moins d'une signalisation lumineuse, d'un panneau de signalisation fixé, de manière appropriée, sur la structure de la fermeture, ainsi que des dispositifs cités au point "14".
18. GENIUS décline toute responsabilité quant à la sécurité et au bon fonctionnement de l'automatisme si les composants utilisés dans l'installation n'appartiennent pas à la production GENIUS.
19. Utiliser exclusivement, pour l'entretien, des pièces GENIUS originales.
20. Ne jamais modifier les composants faisant partie du système d'automatisme.
21. L'installateur doit fournir toutes les informations relatives au fonctionnement manuel du système en cas d'urgence et remettre à l'Usager qui utilise l'installation les "Instructions pour l'Usager" fournies avec le produit.
22. Interdire aux enfants ou aux tiers de stationner près du produit durant le fonctionnement.
23. Ne pas permettre aux enfants, aux personnes ayant des capacités physiques, mentales et sensorielles limitées ou dépourvues de l'expérience ou de la formation nécessaires à utiliser l'application en question.
24. Éloigner de la portée des enfants les radiocommandes ou tout autre générateur d'impulsions, pour éviter tout actionnement involontaire de l'automatisme.
25. Le transit entre les vantaux ne doit avoir lieu que lorsque le portail est complètement ouvert.
26. L'utilisateur doit s'abstenir de toute tentative de réparation ou d'intervention et doit s'adresser uniquement et exclusivement au personnel qualifié GENIUS ou aux centres d'assistance GENIUS.
27. Tout ce qui n'est pas prévu expressément dans ces instructions est interdit.

## ESPAÑOL

### ADVERTENCIAS PARA EL INSTALADOR REGLAS GENERALES PARA LA SEGURIDAD



**ATENCIÓN! Es sumamente importante para la seguridad de las personas seguir atentamente las presentes instrucciones. Una instalación incorrecta o un uso impropio del producto puede causar graves daños a las personas.**

1. Leer detenidamente las instrucciones antes de instalar el producto.
2. Los materiales del embalaje (plástico, poliestireno, etc.) no deben dejarse al alcance

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## CE DECLARATION OF CONFORMITY

**Manufacturer:** GENIUS S.p.A.  
**Address:** Via Padre Elzi, 32 - 24050 - Grassobbio- Bergamo - ITALY  
**Declares that:** Control unit mod. **LYNX 06**  
**with suply:** 230Vac

- conforms to the essential safety requirements of the following EEC directives:
  - 2006/95/EC Low Voltage directive.
  - 2004/108/EC Electromagnetic Compatibility directive.

**Additional information:**


This product underwent a test in a typical uniform configuration (all products manufactured by GENIUS S.p.A.).


Grassobbio, 23 February 2009

Managing Director  
D. Gianantoni

**Notes on reading the instruction**

Read this installation manual to the full before you begin installing the product.

The symbol  indicates notes that are important for the safety of persons and for the good condition of the automated system.

The symbol  draws your attention to the notes on the characteristics and operation of the product.

## CONTROL UNIT FOR BARRIERS OPERATING INSTRUCTIONS – INSTALLATION INSTRUCTIONS

### 1. DESCRIPTION

The **LYNX 06** control units are designed and built for managing electro – mechanical barriers for controlling residential accesses.

The two models differ in their voltage:

- Lynx 06: Power supply 230V
- Lynx 06: Power supply 115V

Thanks to their wide ranging number of selectable parameters, these control units can be adapted to your requirements guaranteeing optimal operation of the automated system.

The possibility of managing an encoder for detecting any obstacles enables you to further increase the safety level of the automated system.

Programming the main operating parameters is done by pressing two keys on the control unit and is shown on the generous back lit display. During normal operation, the display shows the status of the automated system at all times.

Learning the work cycle and the mechanical stop-points is performed automatically while the first cycle is being performed (whenever power is cut, the control unit searches the stop-points both at opening and closing).

The six integrated LEDs constantly indicate the inputs status.

ENGLISH

### 2. TECHNICAL SPECIFICATIONS

Supply voltage of control unit	230/115 Vac 50/60 Hz <sup>Ⓞ</sup>
Absorbed power	3 W
Motor absorbed power	500 W
Accessories max. load	500 mA
Power supply and indicator light max. load	230 Vac 25 W
Power supply and max load of barrier status indicator light	24 Vdc 5 W
Operating ambient temperature	-20°C +55°C
Protective fuses	F1= T5A (Transformer and motor primary winding) F2= T500mA (accessories and indicator light)
Function logics	Automatic / Step-by-step automatic / Semiautomatic / Step-by-step semiautomatic / Condo
Opening / closing time	In self learning mode during first manoeuvre
Pause time	Nine levels selectable up to a maximum of 4 minutes
Motor power	Adjustable on several levels
Slow-down time	Three selectable levels
Obstacle detection	With optional encoder
Selectable functions	Operates with or without encoder / Encoder sensitivity/ Automatic closure / Open input operation/Condo function / Slow-down percentage/ Heating function / Immediate closure / Timer function / Soft start / Photocells operation / Maintenance request
Terminal board inputs	Opening / Closure / Photocells / Opening travel limit device / Closure travel limit device / Stop / Mains power supply / Earthing
Inputs with connector	Radio module / thrust capacitor / encoder
Terminal board outputs	Power supply to accessories / Flashing lamp / Motor / Indicator light
Board dimensions	147 x 112 mm

<sup>Ⓞ</sup> According to board model, 230 Vac or 115 Vac.

### 3. PREPARATORY ACTIONS

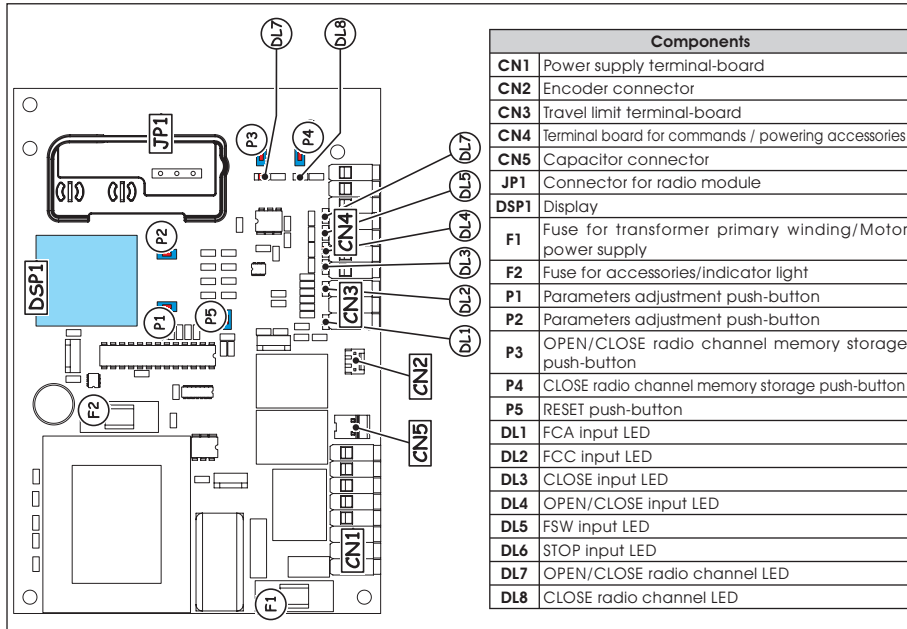


**To ensure people's safety, all warnings and instructions in this booklet must be carefully observed. Incorrect installation or incorrect use of the product could cause serious harm to people.**

**Keep the instructions for future reference.**

- Make sure that an adequate differential switch is installed upstream of the system as specified by current safety regulations.
- On the main power supply, install a thermal breaker with omnipolar switching.
- Make sure that an adequate earthing system is available.
- To lay cables, use adequate rigid and/or flexible tubes.
- Always separate the 230/115 Vac power cables from low voltage connections, using separate sheaths to avoid possible interference.

#### 4. BOARD LAYOUT



#### 5. CONNECTION AND OPERATION

##### 5.1. CN1 TERMINAL-BOARD

###### 5.1.1. EARTHING

Terminal "1". Connect the yellow-green power cable to this terminal.

**⚠** The connection is absolutely necessary for correct operation of the control unit.

###### 5.1.2. POWER SUPPLY

Terminals "2 & 3". Connect, to these terminals, the two cables incoming from the 230/115 Vac power supply line according to board model. Connect the neutral wire to terminal 3 and the phase to terminal 2.

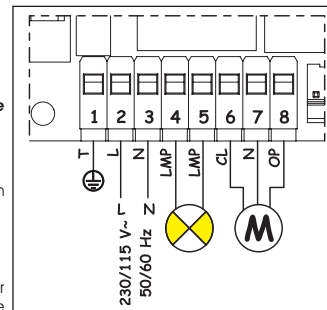
###### 5.1.3. FLASHING LAMP

Terminals "4 & 5". Output 230/115 Vac max. 25 W. The flashing lamp power cable must be connected to these terminals. The flashing lamp is active while the automated system is moving, whereas when the system is open or closed, it stays OFF. Before the opening manoeuvre, the flashing lamp pre-flashes on steady beam for 0.5 sec. If the assistance request function has been activated, an when the set number of cycles has been reached, at the end of the closing manoeuvre, the flashing lamp continues to flash for another 5 seconds, indicating that the set cycles have been reached. For the cycles resetting operation, see paragraph 10.1.

###### 5.1.4. MOTOR

Terminals "6, 7 & 8". Output 230/115 Vac max. 500 W. Connect the motor power cables to these terminals. For the cable connection sequence, refer to the following table:

Terminal No.	Motor 230 Vac	Motor 115 Vac
6	Black	Black
7	Blue / Grey	White
8	Brown	Red
1	Yellow Green	Green



**⚠** The colour of the wires connected to terminals 6 & 8 can be reversed according to motor rotation direction

**5.2. CONNECTOR CN2**

This connector is used for connecting the optional encoder. The connector must be correctly oriented – do not force.  
 The board is supplied with a standard parametrisation entailing the use of encoder "A0" (see paragraph 10). If you do not wish to use the encoder, you must modify the value of parameter "A", as described in paragraph 10, and leave this connector free.

**⚠ Do not on any account create jumper bridges between these contacts.**

*Four levels of obstacle detection sensitivity can be adjusted using the parameter "b", see paragraph 10.*

**5.2.1. ENCODER OPERATION**

The encoder, if used, enables to further increase the level of the automated system safety. This device is active both at closure and at opening of the automated system as explained below:

**At closure**

If an obstacle is detected during the closing phase of the automated system, the encoder reverses the movement of the automated system till the complete opening, without disactivating the automatic re-closure if set. If it activates three consecutive times the automated system, after having reached the opening position, sets to STOP, disactivating the automatic re-closure, if set. To resume normal operation, send an OPEN or CLOSE impulse after having removed the obstacle.

**At opening**

If an obstacle is detected during the opening phase of the automated system, the encoder reverses the movement of the automated system till the complete re-closure.

**5.3. CN3 TERMINAL-BOARD**

**5.3.1. OPENING TRAVEL LIMIT DEVICE FCA**

Terminal "12". Connect, to this the terminal, the wire of the **NC** contact opening travel limit device. This acts on the opening movement of the beam, stopping its movement.

When the travel limit device is activated, the automated system continues manoeuvring for a further 2 seconds. The status of this input is signalled by LED DL1.

**⚠ The FCA travel limit device cannot be used as the start of the slowed down section, but only for stopping.**

*The travel limit device is absolutely necessary to ensure that the automated system operates.*

**5.3.2. COMMON CONTACT FOR TRAVEL LIMIT DEVICE COMF**

Terminal "13". Connect to this terminal the common contact wire of the travel limit devices.

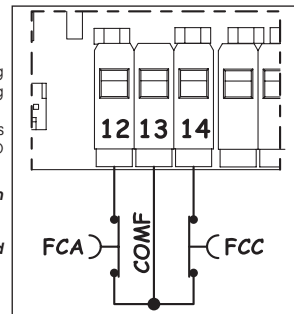
**⚠ This terminal must be used only for the common contact of the two travel limit devices. Do not use it as a negative contact of other devices.**

**5.3.3. CLOSING TRAVEL LIMIT DEVICE FCC**

Terminal "14". Connect, to this terminal, the wire of the **NC** contact of the closing travel limit device. This acts on the closing movement of the beam, stopping movement. When the travel limit device is activated, the automated system continues the manoeuvre for another 2 seconds. The status of this input is signalled by LED DL2.

**⚠ The FCC travel limit device cannot be used as the start of the slowed down section, but only for stopping.**

*The travel limit device is absolutely necessary to ensure that the automated system operates.*



## 5.4. TERMINAL-BOARD CN4

### 5.4.1. CLOSE

Terminals "15 & 20". **NO** Contact. Connect any impulse generator (push-button, key selector etc.) to these terminals which, by closing the contact, commands a closing movement of the automated system. This input commands the closure of the beam only, therefore when the beam is closed, this input has no effect, see logic tables. The status of this input is signalled by led **DL3**.

 Several impulse generators must be connected in parallel

### 5.4.2. OPEN / CLOSE

Terminals "16 & 20". **NO** Contact. Connect any impulse generator (push-button, key selector etc.) to these terminals which, by closing the contact, commands the automated system to open or close. The behaviour of this input is defined by parameter "d" – see paragraph 10. The status of the input is signalled by LED **DL4**.

 Several impulse generators must be connected in parallel

### 5.4.3. SAFETY DEVICES

Terminals "17 & 20". **NC** Contact. Connect any impulse generator (e.g. photocells) to these terminals which, by opening the contact, commands the movement of the automated system. Use parameter "y" to select if the safety devices should be enabled only during opening or during closure and opening – see paragraph 10. The status of this input is signalled by LED **DL5**.

#### Safety devices active during closure only.

During the closure phase, if the safety devices are engaged, the automated system reverses the movement until the beam is completely open, without disabling automatic re-closure if selected.

#### Safety devices active during closure and opening

In this case, the safety devices are active during both movements of the automated system..

If the safety devices are used during closure, the automated system stops operation and remains idle until the safety devices are restored (obstacle removed). When the safety devices have been restored, the automated system reverses motion to complete opening without disabling automatic re-closure, if activated.

 If the safety devices are not used, this input must be bridge jumped – LED **DL5** must be lighted.

Several safety devices must be connected in series.

### 5.4.4. STOP

Terminal "18 & 20". **NC** Contact. Any impulse generator (push-button, key selector, etc.) must be connected to this contact which, by opening the contact, commands immediate stop of the automated system, and deactivation of any automatic re-closing. To resume the normal programmed cycle after this contact is activated, use any impulse generator which commands the opening and/or closure of the automated system. The status of this input is signalled by LED **DL6**.

 Several impulse generators must be connected in series.

### 5.4.5. INDICATOR LIGHT

Terminals "19 & 20". An indicator light, if any, supplied on 24Vdc 5W max power must be connected

Terminal 19 is the positive pole of the connection – respect the polarity of the contacts. The indicator light enables you to monitor the state of the automated system, particularly:

- Indicator light OFF: automated system closed
- Indicator light ON: automated system opened
- Flashing lamp slow: automated system closing
- Flashing lamp fast: automated system opening

 A load of over 5 W cannot be applied to this contact

To connect the indicator light, the polarity of contacts must be respected.

### 5.4.6. POWER SUPPLY FOR ACCESSORIES


Terminals "20 & 21". 24 Vdc output max. 500 mA for feeding the external accessories.

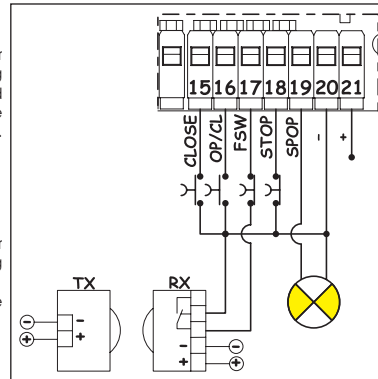
 Maximum load of this output is 500 mA.

Observe the power supply polarity.

## 5.5. CONNECTOR CN5

This connector is used for connecting the thrust capacitor.

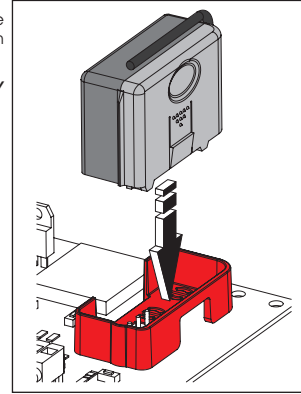
 If you have a connector without a terminal for insertion on this connector, the capacitor can be connected in parallel to the two motor phases: terminals 6 & 8.



## 6. INSERTION OF A RECEIVER MODULE

The control unit is designed to house an 868 or 433 MHz receiver module. The receiver module must be fitted on the **JP1** connector, respecting the orientation defined by the housing - see figure.

**!** *Fitting and, if necessary, removing the receiver module must be done only after cutting power to the control unit.*



ENGLISH

## 7. MEMORY STORING THE RADIO CODE

The control unit has an integrated 2-channel decoding system. The system makes it possible to memory store - via the receiver module - both the **OPEN/CLOSE** command and the **CLOSE** command. The decoding system makes it possible to memory store both the radio controls with a frequency of 868 MHz and the radio controls with a frequency of 433 MHz.

**!** *Only one radio code can be used at a time. To change over from one code to the other, delete the existing radio code (see paragraph 7.3), replace the receiver module and repeat the programming stages.*

*Fitting and, if necessary, removing the receiver module must be done only after cutting power to the board. The receiver module can only be inserted in one position. Orient the module correctly without forcing.*

### 7.1. MEMORY STORAGE OF 868 MHz RADIO CONTROLS

**!** *Before you save the radio control, we advise you to run a deletion procedure – see paragraph 7.3.*

*You can memory store up to a maximum of 250 codes, subdivided between the two channels, **OPEN/CLOSE** and **CLOSE**.*

1. On the radio control, simultaneously press and hold down push-buttons **P1** and **P2** (see radio control instructions).
2. After about one second, the LED of the radio control begins to flash.
3. Release both push-buttons.
4. Press and hold down push-button **P3** or **P4** on the board, according to the input you wish to save (input of **OPEN/CLOSE** or **CLOSE**). When the relevant LED begins to flash - release the push-button.
5. Simultaneously press the push-button of the radio control with which you wish to associate the selected command.
6. Check if the LED relating to the command being memory stored (**DL7** for the **OPEN/CLOSE** channel or **DL8** for the **CLOSE** channel) lights up on steady beam for about two seconds to confirm correct memory storage.
7. To finish programming, press twice in close succession, the push-button of the memory stored radio control.

**!** *The automated system will perform an opening manoeuvre - make sure that there are no obstacles inside the operating range.*


8. To memory store the other channel, repeat all the procedure from point 1.

To add other radio controls, transfer the code of the memory-stored push-button of the radio control to the relevant push-button of the radio controls to be added, repeating the memory storage procedure or observing the following procedure:

- On the memory stored radio control, simultaneously press and hold down push-buttons **P1** and **P2** (see radio control instructions).
- The radio control LED begins to flash.
- Release both push-buttons.
- Put the two radio controls frontally **into contact**.
- On the memory stored radio control, press and hold down the push-button relating to the channel you wish to transfer - the radio control LED lights up on steady beam.
- On the radio control to be memory stored, press the required push-button and release it after the radio control has flashed twice.
- To finish programming, press twice in close succession, the push-button of the memory stored radio control.

**!** *The automated system will perform an opening manoeuvre - make sure that there are no obstacles inside the operating range.*

## 7.2. MEMORY STORAGE OF 433 MHz RADIO CONTROLS

 Before you save the radio control, we advise you to run a deletion procedure – see paragraph 7.3.

You can memory store up to a maximum of **250 codes**, subdivided between the two channels, **OPEN/CLOSE** and **CLOSE**.

1. On the control unit, press the push-button of the channel you wish to memory store, **P3** for the **OPEN/CLOSE** channel or **P4** for the **CLOSE** channel.
2. The relevant LED on the control unit begins to flash - release the push-button.
3. On the radio control, press the push-button with which you wish to associate the selected channel.
4. The LED on the control unit lights up on steady beam for about one second, signalling that the radio control was stored in the memory, then it resumes flashing.
5. During this stage further radio controls can be stored in the memory.
6. After about 10 seconds, the control unit automatically exits the learning stage.
7. To add other radio controls or memory store the second channel, repeat the operations from point 1

### 7.2.1. REMOTE MEMORY STORAGE OF 433 MHz RADIO CONTROLS

Other radio controls can be remotely stored only with the 433 radio controls, i.e. without using the push-buttons of the control unit, but using a previously stored radio control.

1. Get a radio control already memory stored on one of the 2 channels.
2. Step near to the automated system.
3. Press and hold down push-buttons **P1** and **P2** (see radio control instructions) simultaneously for about 5 seconds.
4. Within 5 seconds, press, on the memory stored radio control, the push-button you wish to transfer to the new radio control. In this way the learning stage on the selected channel is activated on the control unit.
5. Within 5 seconds, press, on the new radio control, the push-button you wish to associate with the selected channel.
6. After the new radio control has been stored in the memory, the control unit keeps the learning mode active on the selected channel for about 5 seconds.
7. During these 5 seconds, other radio controls can be memory stored on the control unit, as ever associated with the activated channel.
8. When 5 seconds have elapsed from memory-storage of the last radio control, the control unit automatically exits the learning stage.
9. To check if the radio control was correctly memory stored, wait for 5 seconds after sending the code.

## 7.3. DELETION OF RADIO CODES

To delete **all** the radio controls stored in the memory, go through the following procedure:


1. Press and hold down one of the two push-buttons **P3** or **P4**.
2. The relevant LED begins to flash.
3. After five seconds, the LED starts to flash at high speed.
4. After another five seconds both LEDs, **DL7** and **DL8** light up on steady beam.
5. Release the push-button.

 **This operation is irreversible, and all radio controls associated with both the OPEN/CLOSE and the CLOSE command will be deleted.**

## 8. CONTROL LEDS

There are 8 control LEDs on the control unit, displaying the state of the inputs. The meanings of the LEDs are shown on the table below

LEDs	ON	OFF
DL1 - Opening travel limit device FCA	<b>Opening travel limit device not engaged</b>	Opening travel limit device engaged
DL2 - Closure travel limit device FCC	Closure travel limit device not engaged	<b>Closure travel limit device engaged</b>
DL3 - CLOSE input	Input active	<b>Input not active</b>
DL4 - OPEN/CLOSE input	Input active	<b>Input not active</b>
DL5 - FSW safety devices input	<b>Safety devices not engaged</b>	Safety devices engaged
DL6 - STOP input	<b>Input not active</b>	Input active
DL7 - OPEN/CLOSE radio input	Radio channel active	<b>Radio channel not active</b>
DL8 - CLOSE radio input	Radio channel active	<b>Radio channel not active</b>

 The bold print indicates the condition of the LEDs with the automated system closed at rest.

If **STOP** devices are not connected, make a connection between terminals **18** & **20**. LED **DL6** must always be lighted.

If safety devices are not used, make a connection between terminals **17** & **20**. LED **DL5** must always be lighted.

### 9. OPERATION OF THE DISPLAY

The control unit has a back-lit display enabling you to view and program the operating parameters of the automated system. Furthermore, it always shows the state of the automated system during normal operation. The following table shows all the indications on the display during normal operation:

Displayed value	State of automated system / description
- -	Automated system closed at rest
□ P	Automated system opening or open
⏸ c	Automated system on pause (only with the selected automatic re-closure)
⏏ L	Automated system closing
⌈ ⌈	Motor heating: it is shown only during the heating phase (to activate the function, see next paragraph)
A 5	Assistance request: it is shown only if the relevant parameter was enabled and if the number of set cycles has been reached.

### 10. OPERATIONAL PARAMETERS

The operational parameters and their programming are shown on the display of the control unit with two characters: a letter, lower case or upper case, and a number. The letter indicates the operation of the parameter we are modifying, whereas the number indicates the set value. For example, if we read "A2" on the display, this means we are modifying parameter "A", operation with or without encoder and motor power, and that it is currently set on "2". To access adjustment of operational parameters, at first start-up, make use of the following procedure:

1. Power up the system and check that all the LEDs in the control unit are in the situation indicated in paragraph 8.
2. Make sure that the display shows value "--", automated system at rest.
3. Press and hold down push-button P2 until the name of the first parameter appears on the display.
4. Press push-button P1 to modify the set value.
5. To move on to the next parameter, press push-button P2.
6. When 60 seconds have elapsed without any key being touched, the control unit automatically exits the adjustment mode. You can manually exit the adjustment mode by scrolling all the parameters with key P2. When the displays show value "--", you have returned to normal operation.

The following table summarises all settable parameters and the assignable values:

Display		Description
Parameter	Value	
<b>Operation with encoder / motor power adjustment</b>		
A	□	Operation of control unit with encoder
	1	Low motor power
	2	
	3	
	4	
	5	
	6	
	7	
	8	
9	High motor power	
<b>Encoder sensitivity adjustment:</b> This parameter is used to manage motor power and the encoder's obstacle detection sensitivity. This parameter is active only if parameter "A" is set on "0".		
b	1	Minimum motor power, high encoder sensitivity
	2	Medium-low motor power / medium-high encoder sensitivity
	3	Medium-high motor power / medium-low encoder sensitivity
	4	High motor power, low encoder sensitivity

Display		Description
Parameter	Value	
<b>Automatic reclosure:</b> This parameter is used for selecting automatic re-closure, if any, of the automated system, and the relevant pause time.		
c	0	Automatic closure disabled
	1	Automatic closure enabled with a 5 seconds pause
	2	Automatic closure enabled with a 10 seconds pause
	3	Automatic closure enabled with a 20 seconds pause
	4	Automatic closure enabled with a 40 seconds pause
	5	Automatic closure enabled with a 60 seconds pause
	6	Automatic closure enabled with a 90 seconds pause
	7	Automatic closure enabled with a 120 seconds pause
	8	Automatic closure enabled with a 180 seconds pause
	9	Automatic closure enabled with a 240 seconds pause
<b>Behaviour of the OPEN / CLOSE input:</b> This parameter determines the behaviour of the OPEN/Close input.		
d	0	A movement of the automated system corresponds to every impulse: Opens / Closes / Opens...
	1	The two movements of the automated system are separated by a stop: Opens / Stops/ Closes / Opens .....
	2	The OPEN input commands only the opening of the automated system.
<b>Condo function:</b> If this function is activated, during the opening manoeuvre, the automated system ignores successive impulses both of OPEN/CLOSE and of CLOSE until the system has completed the opening stage.		
E	0	Condo function disabled
	1	Condo Function Activated
<b>Slow-down percentage:</b> This parameter is used to select the length of the slowed down section before the travel limit device intervenes. The length of the slowed down section is calculated as a percentage of the opening and closure times.		
H	0	No slow-down
	1	Slow-down is 30% of the stroke
	2	Slow-down is 40% of the stroke
	3	Slow-down is 50% of the stroke
<b>Heating function:</b> If you activate this function, the control unit feeds the motor at a very low voltage in order to maintain the motor at a temperature above ambient temperature. This function is active only when the automated system is closed at rest, and if an OPEN command is sent, the function is interrupted.		
M	0	Function disabled
	1	Function enabled – a heating cycle every 5 minutes
	2	Function enabled – a heating cycle every 15 minutes
	3	Function enabled – a heating cycle every 30 minutes
	4	Function enabled – a heating cycle every 40 minutes
<b>Immediate closure:</b> This function is active only when the function can only be activated combined with function logics with Automatic re-closure, Automatic, Step-by-step automatic or Condo, and with the safety devices active only in closure "y0". With this function activated, and while the automated system is open in pause mode, when a change in the state of the safety devices' is detected, e.g. when transiting in front of the photocells, the automated system closes immediately without waiting for the pause time to elapse.		
o	0	Immediate closure disabled
	1	Immediate closure activated, but only with "y0"

Display		Description
Parameter	Value	
<b>Immediate closure / Timer:</b> This function enables you to activate immediate closure or automation shut-down with the OPEN/CLOSE command. The function can be activated only when combined with function logics with automatic re-closure, Automatic logic, Automatic step-by-step logic, or Condo.		
P	0	<b>Immediate closure activated:</b> with the automated system open in pause mode, an impulse of the OPEN/CLOSE command causes the automated system to close immediately without waiting for the pause time to elapse.
	1	<b>Timer function activated:</b> If you activate this function, with the automated system open in pause state, at every OPEN/CLOSE command, the control unit restarts the pause time count. If the command is maintained active, the control unit stops the pause time count and the automated system remains idle. The control unit resumes the pause time count only when the OPEN/CLOSE command is released.
<b>Soft start:</b> This function enables a softer start of the automated system.		
r	0	Soft start function disabled
	1	Soft start function enabled
<b>Operation of safety devices:</b> This parameter enables you to select the intervention method of the safety devices connected to the control unit.		
4	0	Safety devices active only during closure of the automated system
	1	Safety devices active during the closure and opening of the automated system
<b>Assistance request:</b> This function allows you to set the number of cycles to be run before maintenance begins. For information about the operation of this function, see the next paragraph.		
U	0	Assistance request disabled
	1	Assistance request after 10,000 cycles
	2	Assistance request after 20,000 cycles
	3	Assistance request after 30,000 cycles
	4	Assistance request after 40,000 cycles
	5	Assistance request after 50,000 cycles
	6	Assistance request after 60,000 cycles
	7	Assistance request after 70,000 cycles
	8	Assistance request after 80,000 cycles
	9	Assistance request after 90,000 cycles
<b>Cycle counter:</b> The number of cycles, in thousands, performed by the automated system is displayed. For example, if "15" is shown, this means that the automated system has performed 15,000 cycles. For more detailed information, see the next paragraph.		
	00	Indicates the number of cycles performed by the automated system



The indicated conditions are the control unit's default. Make a note of the adjustments carried out in order to restore them if the control unit is replaced.

You can access and modify the operation parameters only when the automated system is closed in rest position - the display must indicate value "--".



**Whenever you access display / modification of the operating parameters, at the next OPEN impulse, the control unit runs a programming procedure, recalculating the opening and closing time. The automated system does not perform the slow-downs during the first opening.**

### 10.1. ASSISTANCE REQUEST

This function allows you to set the number of cycles to be run before a technical assistance job. When the number of set cycles is reached, this is signalled by about 5 seconds flashing, at the end of every closure manoeuvre and the control unit's display indicates value "AS". The resetting of the number of cycles must be done manually.



This function signals but does not prevent normal operation of the automated system.

The screen after parameter "U" shows the number of cycles in thousands, e.g., if you read "05" this means that the automated system has performed 5,000 cycles. The maximum number of cycles the control unit can count is 99,000 - when this value is reached, the count stops and must be manually reset.

#### 10.1.1. RESETTING THE NUMBER OF CYCLES

This is the procedure for resetting the number of cycles:

1. Press and hold down push-button P2 until the first parameter "A" appears on the display.
2. Scroll all the operating parameters until the number of performed cycles is shown.
3. Simultaneously press push-buttons P1 and P2 for about 10 seconds.

4. When value "00" appears on the display, cancellation has been done.
5. Press key **P2** again, and wait for 60 seconds, to return to normal operation.
6. Give an OPEN impulse to perform a cycle.

### 11. START-UP

Follow the procedure below to start up the system for the first time:

1. Power up the automated system and check that all the LEDs are in the situation described in paragraph 8.
2. Make sure that the display shows value "--".
3. Adjust the operating parameters, as described in paragraph 10.
4. When you have finished adjusting the parameters, give an **OPEN/CLOSE** impulse, using any impulse generator connected to this input, or the radio control if already memory-stored.
5. The control unit starts an **OPENING** manoeuvre, until the opening travel limit device is reached and the display shows value "OP".

 During this stage, the control unit does not perform any slow-down.



**If the automated system does not move and the display shows value "OP", this means that it is performing a closing manoeuvre and the motor wires must be reversed. Give a RESET command by pressing push-button P5, cut power and reverse the wires connected to terminals 6 & 8. Restore the power supply and resume from point 4.**

6. When the opening travel limit device has been reached, providing automatic re-closing has been enabled, the control unit starts counting the pause time and the display shows value "tc". If automatic re-closure was not activated, the automated system remains idle waiting for a new **OPEN/CLOSE** impulse, and the display shows value "OP".
7. When the set pause time has elapsed, with automatic re-closure, or at the next **OPEN/CLOSE** impulse, without automatic re-closure, the automated system starts the closing manoeuvre until the closing travel limit device is reached. The display shows value "CL".
8. During the closing manoeuvre, the control unit performs the set slow-down.
9. When the closing stage has finished, the display shows value "--" and the automated system is ready for normal operation.



*If the described procedure begins with the automated system half open or fully open, e.g. following a **RESET** command, the control unit does not perform slow-down either during the closing manoeuvre. Command another cycle and check if the automated system is operating correctly.*



**Whenever you access the display of the operating parameters, or if power is cut, during the first cycle the control unit automatically performs the work cycle learning procedure. While the work cycle is being learned, the automated system does not perform any slow-downs.**

### 12. PROTECTIVE FUSES

Two protective fuses are located on the control unit – see Lay-out. If one of these two fuses has to be replaced, observe the specifications indicated in the following table:

Fuse	Protection	Fuse	Protection
F1=T5A 250V 5x20	Transformer primary winding / Power to motor	F2=T500mA 250V 5x20	Power to accessories / Indicator Light

### 13. FUNCTION LOGICS

Logic "A" Automatic C= from 1 to 9 d=0 E=0					
Automated system status	Inputs				
	Open / Close	Close	Stop	Active only for closure	Safety devices
Closed	Opens and re-closes after pause time	No effect	No effect, if active it disables the OPEN commands	No effect	Y=1 Active for closing and opening It disables the OPEN commands
	<b>P=0 (immediate closure activated)</b> Closes immediately.			<b>O=0</b> At release, if pause time has elapsed, re-closes after 5 seconds. If it receives a CLOSE command while the safety device is engaged, it saves the command and re-closes after 5 seconds at release. The OPEN/CLOSE command is stored in the memory only if <b>P=0</b>	At release, if pause time has elapsed, re-closes after 5 seconds. If it receives a CLOSE command while the safety device is engaged, it saves the command and re-closes after 5 seconds at release. The OPEN/CLOSE command is stored in the memory only if <b>P=0</b>
Open in pause	<b>P=1 (timer function activated)</b> Recharges pause time, if held down, it stops the count and resumes counting at release.	Closes immediately	Stops operation	<b>O=1</b> Closes immediately at release, if pause time has elapsed, re-closes after 5 seconds.	
At closure	Reverses movement to opening	No effect	Stops operation	Reverses movement to opening	Stops operation and reverses to opening after release
At opening	Reverses movement to closing <sup>①</sup>	Reverses movement to closing	Stops operation	No effect	Stops operation and restarts after release

① With parameter d=0 (Open only) during the opening phase of the automated system, the OPEN input has no effect.

Logic "AP" Automatic Step-by-Step C=from 1 to 9 d=1 E=0					
Automated system status	Inputs			Safety devices	
	Open / Close	Close	Stop	Active only for closure Y=0	Active for closing and opening Y=1
<b>Closed</b>	Opens and re-closes after pause time <b>P=0 (immediate closure activated)</b> Closes immediately.	No effect	No effect, if active it disables the OPEN commands	No effect	It disables the OPEN commands
<b>Open in pause</b>	<b>P=1 (timer function activated)</b> Recharges pause time, if held down, it stops the count and resumes counting at release.	Closes immediately	Stops operation	<b>O=0</b> At release, if pause time has elapsed, re-closes after 5 seconds. If it receives a CLOSE command while the safety device is engaged, it saves the command and re-closes after 5 seconds at release. The OPEN command is stored in the memory only if <b>P=0</b> <b>O=1</b> Closes immediately at release, if pause time has elapsed, re-closes after 5 seconds	At release, if pause time has elapsed, re-closes after 5 seconds. If it receives a CLOSE command while the safety device is engaged, it saves the command and re-closes after 5 seconds at release. The OPEN command is stored in the memory only if <b>P=0</b>
<b>At closure</b>	Stops the movement and opens at next impulse	No effect	Stops operation	Reverses movement to opening	Stops operation and reverses to opening after release
<b>At opening</b>	Stops the movement and closes at next impulse <sup>①</sup>	Reverses movement to closure	Stops operation	No effect	Stops operation and restarts after release

① With parameter  $d=2$  (Open only) during the opening phase of the automated system, the OPEN input has no effect.

Semi-automatic logic "E" C=1 d=0 E= 0					
Automated system status	Inputs			Safety devices	
	Open / Close	Close	Stop	Y=0	Y=1
<b>Closed</b>	Opens	No effect	No effect, if active it disables the OPEN commands	No effect	If disables the OPEN commands
<b>Open</b>	Closes	Closes	No effect, if active, it disables all commands	If it receives an impulse from the OPEN or CLOSE command, it saves the command and re-closes after 5 seconds at release	If it receives an impulse from the OPEN or CLOSE command, it saves the command and re-closes after 5 seconds at release
<b>At closure</b>	Reverses movement to opening	No effect	Stops operation	Reverses movement to opening	Stops operation and reverses to opening after release
<b>At opening</b>	Reverses movement to closure <sup>①</sup>	Reverses movement to closure	Stops operation	No effect	Stops operation and restarts after release

① With parameter  $d=2$  (Open only) during the opening phase of the automated system, the OPEN input has no effect.

Logic "EP" Stepped Semi-Automatic C=0 d=1 E= 0					
Automated system status	Inputs			Safety devices	
	Open / Close	Close	Stop	Y=0	Y=1
<b>Closed</b>	Opens	No effect	No effect, if active it disables the OPEN commands	No effect	If disables the OPEN commands
<b>Open</b>	Closes	Closes	No effect, if active, it disables all commands	If engaged, it saves the OPEN or CLOSE command and, on release it re-closes after 5 seconds	If engaged, it saves the OPEN or CLOSE command and, on release it re-closes after 5 seconds
<b>At closure</b>	Stops the movement and opens at next impulse	No effect	Stops operation	Reverses movement to opening	Stops operation and reverses to opening after release
<b>At opening</b>	Stops the movement and closes at next impulse <sup>①</sup>	Reverses movement to closure	Stops operation	No effect	Stops operation and restarts after release

① With parameter  $d=2$  (Open only) during the opening phase of the automated system, the OPEN input has no effect.

ENGLISH

Logic "D" Condo C=from 1 to 9 d=0 E=1 P=1					
Automated system status	Inputs				
	Open / Close	Close	Stop	Safety devices	
				Y=0	Y=1
<b>Closed</b>	Opens and re-closes after pause time	No effect	No effect, if active it disables the OPEN commands	No effect	Active for closing and opening It disables the OPEN commands
<b>Open in pause</b>	Recharges pause time. If held down, it stops the count and resumes counting at release.	Closes immediately	Stops operation	<p><b>O=0</b> At release, if pause time has elapsed, re-closes after 5 seconds.</p> <p>If it receives a CLOSE command while the safety device is engaged, it saves the command and re-closes after 5 seconds at release.</p> <p><b>O=1</b> Closes immediately at release, if pause time has elapsed, re-closes after 5 seconds</p>	<p>At release, if pause time has elapsed, re-closes after 5 seconds.</p> <p>If it receives a CLOSE command while the safety device is engaged, it saves the command and re-closes after 5 seconds at release.</p>
<b>At closure</b>	Reverses movement to opening	No effect	Stops operation	Reverses movement to opening	Stops operation and reverses to opening after release
<b>At opening</b>	No effect	No effect	Stops operation	No effect	Stops operation and restarts after release

- de los niños, ya que constituyen fuentes potenciales de peligro.
- Guarden las instrucciones para futuras consultas.
  - Este producto ha sido proyectado y fabricado exclusivamente para la utilización indicada en el presente manual. Cualquier uso diverso del previsto podría perjudicar el funcionamiento del producto y/o representar fuente de peligro.
  - GENIUS declina cualquier responsabilidad derivada de un uso impropio o diverso del previsto.
  - No instalen el aparato en atmósfera explosiva; la presencia de gas o humos inflamables constituye un grave peligro para la seguridad.
  - Los elementos constructivos mecánicos deben estar de acuerdo con lo establecido en las Normas EN 12604 y EN 12605.
  - Para los países no pertenecientes a la CEE, además de las referencias normativas nacionales, para obtener un nivel de seguridad adecuada, deben seguirse las Normas arriba indicadas.
  - GENIUS no es responsable del incumplimiento de las buenas técnicas de fabricación de las piezas que se han de montar, así como de las deformaciones que pudieran intervenir en la utilización.
  - La instalación debe ser realizada de conformidad con las Normas EN 12453 y EN 12445. El nivel de seguridad de la automatización debe ser C+D.
  - Quiten la alimentación eléctrica y desconecten las baterías antes de efectuar cualquier intervención en la instalación.
  - Coloquen en la red de alimentación de la automatización un interruptor omnipolar con distancia de apertura de los contactos igual o superior a 3 mm. Se aconseja usar un magnetotérmico de 6A con interrupción omnipolar.
  - Comprueben que la instalación disponga línea arriba de un interruptor diferencial con umbral de 0,03 A.
  - Verifiquen que la instalación de tierra esté correctamente realizada y conecten las partes metálicas del cierre.
  - La automatización dispone de un dispositivo de seguridad antiaplastamiento constituido por un cartil de pie. No obstante, es necesario comprobar el umbral de intervención según lo previsto en las Normas indicadas en el punto 10.
  - Los dispositivos de seguridad (norma EN 12978) permiten proteger posibles áreas de peligro de riesgos mecánicos de movimiento, como por ej., aplastamiento, arrastre, corte.
  - Para cada equipo se aconseja usar por lo menos una señalización luminosa, así como un cartel de señalización adecuadamente fijado a la estructura del bastidor, además de los dispositivos indicados en el "16".
  - GENIUS declina toda responsabilidad relativa a la seguridad y al buen funcionamiento de la automatización si se utilizan componentes de la instalación que no sean de producción GENIUS.
  - Para el mantenimiento utilicen exclusivamente piezas originales GENIUS.
  - No efectúen ninguna modificación en los componentes que forman parte del sistema de automatización.
  - El instalador debe proporcionar todas las informaciones relativas al funcionamiento del sistema en caso de emergencia y entregar al usuario del equipo el manual de advertencias que se adjunta al producto.
  - No permitan que niños o personas se defiengan en proximidad del producto durante su funcionamiento.
  - La aplicación no puede ser utilizada por niños, personas con reducida capacidad física, mental, sensorial o personas sin experiencia o la necesaria formación.
  - Mantengan lejos del alcance los niños los telemandos o cualquier otro emisor de impulso, para evitar que la automatización pueda ser accionada involuntariamente.
  - Sólo puede transitar entre las hojas si la consola está completamente abierta.
  - El usuario debe abstenerse de intentar reparar o de intervenir directamente, y debe dirigirse exclusivamente a personal cualificado GENIUS o a centros de asistencia GENIUS.
  - Todo lo que no esté previsto expresamente en las presentes instrucciones debe entenderse como no permitido.

## DEUTSCH

### HINWEISE FÜR DEN INSTALLATIONSTECHNIKER ALLGEMEINE SICHERHEITSVORSCHRIFTEN



**ACHTUNG! Um die Sicherheit von Personen zu gewährleisten, sollte die Anleitung aufmerksam befolgt werden. Eine falsche Installation oder ein fehlerhafter Betrieb des Produktes können zu schwerwiegenden Personenschäden führen.**

- Bevor mit der Installation des Produktes begonnen wird, sollten die Anleitungen aufmerksam gelesen werden.
- Das Verpackungsmaterial (Kunststoff, Styropor, usw.) sollte nicht in Reichweite von Kindern aufbewahrt werden, da es eine potentielle Gefahrenquelle darstellt.
- Die Anleitung sollte aufbewahrt werden, um auch in Zukunft Bezug auf sie nehmen zu können.
- Dieses Produkt wurde ausschließlich für den in diesen Unterlagen angegebenen Gebrauch entwickelt und hergestellt. Jeder andere Gebrauch, der nicht ausdrücklich angegeben ist, könnte die Unversehrtheit des Produktes beeinträchtigen und/oder eine Gefahrenquelle darstellen.
- Die Firma GENIUS lehnt jede Haftung für Schäden, die durch unsachgemäßen oder nicht bestimmungsgemäßen Gebrauch der Automatik verursacht werden, ab. Das Gerät sollte nicht in explosionsgefährdeten Umgebungen installiert werden; das Vorhandensein von entflammenden Gasen oder Rauch stellt ein schwerwiegendes Sicherheitsrisiko dar.
- Die mechanischen Bauelemente müssen den Anforderungen der Normen EN 12604 und EN 12605 entsprechen.
- Für Länder, die nicht der Europäischen Union angehören, sind für die Gewährleistung eines entsprechenden Sicherheitsniveaus neben den nationalen gesetzlichen Bezugsvorschriften die oben aufgeführten Normen zu beachten.
- Die Firma GENIUS übernimmt keine Haftung im Falle von nicht fachgerechten Ausführungen bei der Herstellung der anzuhelfenden Schließvorrichtungen sowie bei Deformationen, die eventuell beim Betrieb entstehen.
- Die Installation muß unter Beachtung der Normen EN 12453 und EN 12445 erfolgen. Die Sicherheitsstufe der Automatik sollte C+D sein.
- Vor der Ausführung jeglicher Eingriffe auf der Anlage sind die elektrische Versorgung und die Batterie abzunehmen.
- Auf dem Versorgungsnetz der Automatik ist ein omnipolarer Schalter mit Öffnungsabstand der Kontakte von über oder gleich 3 mm einzubauen. Darüber hinaus wird der Einsatz eines Magnetschutzschalters mit 6A mit omnipolarer Abschaltung empfohlen.
- Es sollte überprüft werden, ob vor der Anlage ein Differentialschalter mit einer Auslöseschwelle von 0,03 A zwischengeschaltet ist.
- Es sollte überprüft werden, ob die Erdungsanlage fachgerecht ausgeführt wurde. Die Metallteile der Schließung sollten an diese Anlage angeschlossen werden.
- Die Automatik verfügt über eine eingebaute Sicherheitsvorrichtung für den Quetschutz, die aus einer Drehmomentkontrolle besteht. Es ist in jedem Falle erforderlich, deren Eingriffsschwelle gemäß der Vorgaben der unter Punkt 10 angegebenen Vorschriften zu überprüfen.
- Die Sicherheitsvorrichtungen (Norm EN 12978) ermöglichen den Schutz eventueller Gefahrenbereiche vor mechanischen Bewegungen, wie zum Beispiel Quetschungen, Mitschleifen oder Schnittverletzungen.
- Für jede Anlage wird der Einsatz von mindestens einem Leuchtsignal empfohlen

- sowie eines Hinweisschildes, das über eine entsprechende Befestigung mit dem Aufbau des Iors verbunden wird. Darüber hinaus sind die unter Punkt "16" erwähnten Vorrichtungen einzusetzen.
- Die Firma GENIUS lehnt jede Haftung hinsichtlich der Sicherheit und des störungsfreien Betriebs der Automatik ab, soweit Komponenten auf der Anlage eingesetzt werden, die nicht im Hause GENIUS hergestellt urden.
  - Bei der Instandhaltung sollten ausschließlich Originalteile der Firma GENIUS verwendet werden.
  - Auf den Komponenten, die Teil des Automationsystems sind, sollten keine Veränderungen vorgenommen werden.
  - Der Installateur sollte alle Informationen hinsichtlich des manuellen Betriebs des Systems in Notfällen liefern und dem Betreiber der Anlage das Anleitungsbeleg, das dem Produkt beigelegt ist, übergeben.
  - Weder Kinder noch Erwachsene sollten sich während des Betriebs in der unmittelbaren Nähe der Automatik aufhalten.
  - Die Anwendung darf nicht von Kindern, von Personen mit verminderter körperlicher, geistiger, sensoreller Fähigkeit oder Personen ohne Erfahrungen oder der erforderlichen Ausbildung verwendet werden.
  - Die Funksteuerungen und alle anderen Impulsgeber sollten außerhalb der Reichweite von Kindern aufbewahrt werden, um ein versehentliches Aktivieren der Automatik zu vermeiden.
  - Der Durchgang oder die Durchfahrt zwischen den Flügeln darf lediglich bei vollständig geöffnetem Tor erfolgen.
  - Der Benutzer darf direkt keine Versuche für Reparaturen oder Arbeiten vornehmen und hat sich ausschließlich an qualifiziertes Fachpersonal GENIUS oder an Kundendienstzentren GENIUS zu wenden.
  - Alle Vorgehensweisen, die nicht ausdrücklich in der vorliegenden Anleitung vorge-sehen sind, sind nicht zulässig

## NEDERLANDS

### WAARSCHUWINGEN VOOR DE INSTALLATEUR ALGEMENE VEILIGHEIDSVORSCHRIFTEN



**LET OPI! Het is belangrijk voor de veiligheid dat deze hele instructie zorgvuldig wordt opgevolgd. Een onjuiste installatie of foutief gebruik van het product kunnen ernstig persoonlijk letsel veroorzaken.**

- Lees de instructies aandachtig door alvorens te beginnen met de installatie van het product.
- De verpakkingsmaterialen (plastic, polystyreen, enz.) mogen niet binnen het bereik van kinderen worden gelaten, want zij vormen een mogelijke bron van gevaar.
- Bewaar de instructies voor raadpleging in de toekomst.
- Dit product is uitsluitend ontworpen en gebouwd voor het doel dat in deze documentatie wordt aangegeven. Elk ander gebruik, dat niet uitdrukkelijk wordt vermeld, zou het product kunnen beschadigen en/of een bron van gevaar kunnen vormen.
- GENIUS aanvaardt geen enkele aansprakelijkheid voor schade die voortvloed uit oneigenlijk gebruik of ander gebruik dan waarvoor het automatische systeem is bestemd.
- Installeer het apparaat niet in een explosiegevaarlijke omgeving; de aanwezigheid van ontvlambare gassen of dampen vormt een overeenstemming met de bepalingen van de normen EN 12604 en EN 12605.
- Voor niet-EEG-landen moeten, om een goed veiligheidsniveau te bereiken, behalve de nationale voorschriften ook de bovenstaande normen in acht worden genomen.
- GENIUS is niet aansprakelijk als de regels der goede techniek niet in acht genomen zijn bij de bouw van het sluitsysteem dat gemonteerd moet worden, noch voor vervormingen die zouden kunnen ontstaan bij het gebruik.
- De installatie dient te geschieden in overeenstemming met de normen EN 12453 en EN 12445. Het veiligheidsniveau van het automatische systeem moet C+D zijn.
- Alvorens ingrepen te gaan verrichten op de installatie moet de elektrische voeding worden weggenomen en moeten de batterijen worden afgekoppeld.
- Zorg op het voedingsnet van het automatische systeem voor een meerpole schakelaar met een opening tussen de contacten van 3 mm of meer. Het wordt geadviseerd een magnetothermische schakelaar van 6A te gebruiken met meerpolege onderbreking.
- Controleer of er bovenstrooms van de installatie een differentieel-schakelaar is geplaatst met een limiet van 0,03 A.
- Controleer of de aardinginstallatie vakkundig is aangelegd en sluit er de metalen delen van het sluitsysteem op aan.
- Het automatische systeem beschikt over een intrinsieke beveiliging tegen inklemming, bestaande uit een controle van het koppel. De inschakellimiet hiervan dient echter te worden gecontroleerd volgens de bepalingen van de normen die worden vermeld onder punt 10.
- De veiligheidsvoorzieningen (norm EN 12978) maken het mogelijk eventuele gevaarlijke gebieden te beschermen tegen Mechanische gevaren door beweging, zoals bijvoorbeeld inklemming, meesleuren of amputatie.
- Het wordt voor elke installatie geadviseerd minstens één lichtsignaal te gebruiken alsook een waarschuwingbord dat goed op de constructie van het hang- en sluitsysteem dient te worden bevestigd, afgezien nog van de voorzieningen die genoemd zijn onder punt "16".
- GENIUS aanvaardt geen enkele aansprakelijkheid voor wat betreft de veiligheid en de goede werking van het automatische systeem, als er in de installatie gebruik gemaakt wordt van componenten die niet door GENIUS zijn geproduceerd.
- Gebruik voor het onderhoud uitsluitend originele GENIUS-onderdelen.
- Verricht geen wijzigingen op componenten die deel uitmaken van het automatische systeem.
- De installateur dient alle informatie te verstrekken over de handbediening van het systeem in noodgevallen, en moet de gebruiker van de installatie het bij het product geleverde boekje met aanwijzingen overhandigen.
- De toepassing mag niet worden gebruikt door kinderen, personen met lichamelijke, geestelijke en sensoriele beperkingen, of door personen zonder ervaring of de benodigde training.
- Sta het niet toe dat kinderen of volwassenen zich ophouden in de buurt van het product terwijl dit in werking is.
- Houd radio-afstandsbedieningen of alle andere impulsgevers buiten het bereik van kinderen, om te voorkomen dat het automatische systeem onopzettelijk kan worden aangegeven.
- Go alleen tussen de vleugels door als het hek helemaal geopend is.
- De gebruiker mag zelf geen pogingen ondernemen tot reparaties of andere directe ingrepen, en dient zich uitsluitend te wenden tot gekwalificeerd en geautoriseerd GENIUS-personeel of een erkend GENIUS-servicecentrum.
- Alles wat niet uitdrukkelijk in deze instructies wordt aangegeven, is niet toegestaan

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