

QUADRO COMANDO CONTROL PANEL CENTRALE DE COMMANDE SELBSTÜBERWACHENDE STEUERUNG CUADRO DE MANDOS BEDIENINGSPANEEL



U-link



AZIENDA CON SISTEMA DI GESTIONE INTEGRATO CERTIFICATO DA DNV = UNI EN ISO 9001:2008 = UNI EN ISO 14001:2004 D812163 00100\_04 30-03-15

BFL

Attenzione! Leggere attentamente le "Avvertenze" all'interno! Caution! Read "Warnings" inside carefully! Attention! Veuillez lire attentivement les Avertissements qui se trouvent à l'intérieur! Achtung! Bitte lesen Sie aufmerksam die "Hinweise" im Inneren! ¡Atención; Leer atentamente las "Advertencias" en el interior! Let op! Lees de "Waarschuwingen" tigre aan de binnenkant zorgvuldig!

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



### 9 E'NECESSARIO SEGUIRE QUESTA SEQUENZA DI REGOLAZIONI: D812163 00100 1 - Regolazione dei finecorsa 2 - Autoset 3 - Programmazione radiocomando 4 - Eventuali regolazioni dei parametri / logiche Dopo ogni modifica della posizione dei finecorsa e' necessario eseguire un nuovo autoset. Dopo ogni modifica del tipo motore e' necessario eseguire un nuovo autoset. Se si utilizza il menu semplificato: - Nel caso di motori LUX-BT LUX G-BT la fase 1 (regolazione finecorsa) e' compresa nel menu semplificato. - Negli altri motori la fase 1 (regolazione finecorsa) va eseguita prima di attivare il menu semplificato. ENGLISH IT IS NECESSARY TO FOLLOW THIS SEQUENCE OF ADJUSTMENTS: Adjusting the limit switches 2 - Autoset 3 - Programming remote controls 4 - Setting of parameters/logic, where necessary After each adjustment of the end stop position a new autoset is required. After each modification of the motor type, a new autoset must be carried out If the simplified menu is used: - In LUX-BT and LUX G-BT motors: phase 1 (end stop adjustment) is included in the simplified menu. - In other motors: phase 1 (end stop adjustment) must be carried out before activating the simplified menu FRANÇAIS **VOUS DEVEZ OBLIGATOIREMENT SUIVRE CETTE SÉQUENCE DE RÉGLAGES:** 1 - Réglage des fins de course 2 - Réglage automatique (autoset) 3 - Programmation de la radiocommande 4 - Réglages éventuels des paramètres / logiques Chaque fois que vous modifiez la position des fins de course vous devez procéder à un nouveau autoset. Chaque fois que vous modifiez le type de moteur vous devez procéder à un nouveau autoset. Si vous utilisez le menu simplifié: - Avec les moteurs LUX-BT LUX G-BT la phase 1 (réglage fins de course) est comprise dans le menu simplifié. - Avec les autres moteurs vous devez accomplir la phase 1 (réglage fins de course) avant d'activer le menu simplifié. DEUTSCH DIESE SEQUENZ DER EINSTELLUNGEN MUSS BEFOLGT WERDEN: 1 - Einstellung der endschalter 2 - Autoset 3 - Programmierung fernbedienung 4 - Eventuelle einstellungen der parameter / logiken Nach jeder änderung der position der endschalter musse in neuer autoset ausgeführt werden. Nach jeder änderung des motortyps muss ein neuer autoset ausgeführt werden. wenn das vereinfachte menü benutzt wird: - Bei den motoren LUX-BT LUX G-BT ist die phase 1 (einstellung endschalter) im vereinfachten menü enthalten. - Bei den anderen motoren wird die phase 1 (einstellung endschalter) ausgeführt, bevor das vereinfachte menü aktiviert wird. **ESPAÑOL** ES NECESARIO SEGUIR ESTA SECUENCIA DE AJUSTES: 1 - Regulación de los finales de carrera 2 - Autoset 3 - Programación de radiomando 4 - Eventuales regulaciones de los parámetros / lógicas Después de cambiar la posición de los interruptores de tope es necesario realizar un nuevo autoset. Después de cambiar el tipo de motor es necesario realizar un nuevo autoset.

Si se utiliza el menú simplificado:

- En caso de motores LUX-BT LUX G-BT la fase 1 (ajuste de interruptor de tope) está comprendida en en menú simplificado.

- En los otros motores la fase 1 (ajuste de interruptor de tope) se debe realizar antes de activar el menú simplificado.

#### **NEDERLANDS**

#### **VERRICHT DE VOLGENDE REGELINGEN:**

1 - Regeling van de eindaanslagen

2 - Autoset

3 - Programmering afstandsbediening

4 - Eventuele regelingen van de parameters / logica's

Verricht na elke wijziging van de positie van de eindaanslagen een nieuwe autoset. Dna elke wijziging van het motortype moet een nieuwe autoset worden verricht.

Als het vereenvoudigde menu wordt gebruikt: - In het geval van de motoren LUX-BT LUX G-BT is de fase 1 (regeling eindaanslag) opgenomen in het vereenvoudigde menu. - In alle andere motoren moet de fase 1 (regeling eindaanslag) worden verricht alvorens het vereenvoudigde menu te activeren.

ENGLISH

<u>FRANÇAIS</u>

DEUTSCH

ESPAÑOI

NEDERLANDS



(M2)

M1

M1 -

M2

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(M)

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#### SUB BT

t IPo PotorE - type de Potetir - PotorEntyp - Potor type - t IPo Potor: 6								
0	SUB BT							
Potenza massima - Maximum power - Puissance maximum - Max. Leistung - Potencia máxima - Maximum vermogen	300W							
Ciclo massimo - Maximum cycle - Cycle maximum - Max. Zyklus - Ciclo máximo - Maximale cyclus	<b>S3 17s-1-17s-1 x21</b> pausa -pause - pause pause - pausa - pauze <b>90 min.</b>							
ΑΝΤΑ ΜΑΥ/ΓΕΛΕ ΜΑΥ/ΛΑΝΤΑΙΙ ΜΑΥ//ΕΙ ΫζΕΙ ΜΑΥ /ΠΟΙΑ ΜΑΥ /ΜΕΠΟΕΙ ΜΑΥ	400 kg							
ANTA MAX/ LEAF MAX/ VANTAIL MAX// FLUGEL MAX./ HOJA MAX./ VLEUGEL MAX.	2 m							
TIPO DI UTILIZZO / TYPE OF USE - SEMI-INTENSIVE / TYPE D'UTILISATION BENUTZUNGSTYP - HALBINTENSIV / TIPO DE USO / SOORT GEBRUIK - SEMI-INTENSIEF	Semi-intensivo / Semi-intensive / Semi-intensive / Halbintensiv / Semi-intensivo / Semi-intensief							

11 14

\*\*\*Nero \*\*Rosso

\*\*\*Nero

 $(M^2)$ 

15

10

+

(M)

inv.direz. ap / open in other direct. / inv.sens.ouv / inv richt offnung inv.direcc.ap./ Omkering openingsrichting:

0(lnE)



inv.direz. ap / open in other direct. / inv.sens.ouv / inv richt offnung inv.direcc.ap./ Omkering openingsrichting:





Bianco\*\*Rosso\*\*\*NeroWhiteRedBlackBlancRougeNoirWeißRotNeroIlancoRojoNegroWitRoodZwart

40 41 42 43 44 45

sw 1\*Bianco

SW 2\*Bianco

ITALIANO

**ENGLISH** 

FRANÇAIS

DEUTSCH

**ESPAÑOL** 



ATTENZIONE: con attuatori con fermi integrati è obbligatorio il rallentamento sempre attivo ad un valore superiore a 5. ATTENTION: with actuators with integrated locks, the permanently active slowdown to a value higher than 5 is mandatory. ATTENTION: avec des actionneurs à butées intégrées il est obligatoire que le ralentissement soit toujours actif à une valeur supérieure à 5. ACHTUNG: Bei Aktuatoren mit integrierten Feststellern ist eine immer aktive Verlangsamung bei einem Wert über 5 zwingend erforderlich. ATENCIÓN: con accionadores con topes integrados la deceleración debe estar siempre activa a un valor superior a 5. OPGELET: met ingebouwde, stilstaande actuatoren moet de afremming altijd geactiveerd zijn op een waarde hoger dan 5.



D812163 00100\_04



D812163 00100\_04





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 ad-dition 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. Charle that the opticities activuture mate the preservent strength and stability. 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 informa-tion 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 dis-claims 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 accord-

ance with the provisions of the laws in force. Keep nylon bags and polystyrene out of reach of children.

WIRING WARNING! For connection to the mains power supply, use: a multicore cable with a cross-sectional area of at least 5x1.5mm<sup>2</sup> or 4x1.5mm<sup>2</sup> when dealing with three-phase power supplies or 3x1.5mm<sup>2</sup> for single-phase supplies (by way of example, type H05 VV-F cable can be used with a cross-sectional area of 4x1.5mm<sup>2</sup>). To connect auxiliary equipment, use wires with a cross-sectional area of at least 0.5 mm<sup>2</sup>. 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

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

-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.

#### <u></u> 2) GENERAL INFORMATION

2) GENERAL INFORMATION The THALIA control panel comes with standard factory settings. Any change must be made using the programmer with built-in display or universal handheld programmer. The Control unit completely supports the EELINK protocol. Is main features are: - Control of 1 or 2 24V BT motors

2

- Note: 2 motors of the same type must be used. Electronic torque control with obstacle detection Limit switch control inputs based on motor selected Separate inputs for safety devices

- Built-in radio receiver rolling code with transmitter cloning. The board has a terminal strip of the removable kind to make maintenance or replacement easier. It comes with a series of prewired jumpers to make the installer's job on site easier.

The jumpers concern terminals: 70-71, 70-72, 70-74. If the above-mentioned terminals are being used, remove the relevant jumpers.

#### TESTING

**Dielectric rigidity** 

Motor output current

The THALIA panel controls (checks) the start relays and safety devices (photocells) before performing each opening and closing cycle. If there is a malfunction, make sure that the connected devices are working

properly and check the wiring.

mains/LV 3750V~ for 1 minute

max. 7.5A+7.5A

3) TECHNICAL SPECIFICATIONS		
Power supply	220-230V 50/60 Hz*	
Low voltage/mains insulation	> 2MOhm 500V	
Operating temperature range	-20 / +55°C	
Thormal overlead protection	Coftware	

Motor relay switching current	10A
Maximum motor power	180W + 180W (24V)
Accessories power supply	24V~ (demand max. 1A) 24V~safe
AUX 0	NO 24V powered contact (max.1A)
AUX 3	NO contact (24V~/max.1A)
Fuses	see Fig. C
N° of combinations	4 billion
Max.n° of transmitters that can be memorized	63

(\*other voltages to order) Usable transmitter versions: All ROLLING CODE transmitters compatible with ((ER-Ready))

#### 4) TUBE ARRANGEMENT Fig. A

a) TOBE ARKINGEMENT FIG. A
b) TERMINAL BOARD WIRING Fig. C
WARNINGS - When performing wiring and installation, refer to the standards in force and, whatever the case, apply good practice principles.
Wires carrying different voltages must be kept physically separate from each other, or they must be seured with additional fastening near the terminals, using devices such as cable clamps.
All connecting cables must be kept far enough away from the dissipater.
WARNINGI For connection to the mains power supply, use a multicore cable with a cross-sectional area of at least 3x1.5mm<sup>2</sup> of the kind provided for by the regulations in force.
To connect the motors, use a cable with a cross-sectional area of at least 1.5mm<sup>2</sup> of the kind provided for by the regulations in force.
b) To connect the motors, use a cable with a cross-sectional area of at least 1.5mm<sup>2</sup> of the kind provided for by the regulations in force.
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b) To connect the motors, use a cable with a cross-sectional area of at least 1.5mm<sup>2</sup> of the kind provided for by the regulations in force.
c) the motor of the motors, use a cable with a cross-sectional area of at least 1.5mm<sup>2</sup> of the kind provided for by the regulations in force.
c) the cable is run outside (unprotected), it must be at least type H07RN-F, while if it is run inside (in a raceway), it must be at least type H05 VV-F.

	Terminal	Definition	Description				
	L	LINE	c:				
Å	N	NEUTRAL	Single-phase power supply 220-250V 50/60 H2"				
ddn	JP5	TRANSE PRIM	Transformer primary winding connection 220-230V				
/er s	JP7		······································				
Pow	JP21	TRANSF SEC	Board power supply: 24V~ Transformer secondary winding 24V= Buffer battery power supply				
	10	MOT1 +	Connection motor 1. Time lag during closing.				
otor	11	MOT1 -	.heck connections shown in Fig.E				
ž	14	MOT2 +	Connection motor 2. Time lag during opening.				
	15	MOT2 -	Check connections shown in Fig.E				
	20	AUX 0 - 24V POWERED	AUX 0 configurable output - Default setting FLASHING LIGHT. 2ND RADIO CHANNEL/ SCA GATE OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT/ GATE OPEN AL ARM/ FLASHING LIGHT/ SOLENOID LATCH/ MAGNETIC LOCK/ MAINTENANCE/ FLASHING LIGHT AND MAINTENANCE. Befer to				
×	21	(MAX. 1A)	"AUX output configuration" table.				
Aı	26	AUX 3 - FREE CONTACT (N.O.)	AUX 3 configurable output - Default setting 2ND RADIO CHANNEL Output. 2ND RADIO CHANNEL/ SCA GATE OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT/ GATE OPEN ALARM/ FLASHING LIGHT/ SOLENOID LATCH/ MAGNETIC LOCK.				
	27	(Max. 24V 1A)	Refer to "AUX output configuration" table.				
ē.	41	+ REF SWE	Limit switch common				
BT 6	42	SWC 1	Motor 1 closing limit switch SWC1 (N.C.).				
swit 250	43	SWO 1	Motor 1 opening limit switch SWO1 (N.C.).				
ELI	44	SWC 2	Motor 2 closing limit switch SWC2 (N.C.).				
5	45	SWO 2	Motor 2 opening limit switch SWO2 (N.C.).				
tch for S N BT BT BT S BT A S BT A	42	SW 1	Limit switch control motor 1. For actuators with single-wire limit switch control.				
Limit swi PHOBO: IGEA SUB PHOBO: KUSTOS	43	SW 2	Limit switch control motor 2. For actuators with single-wire limit switch control.				
t tch	41	+ REF SWE	Limit switch common				
iit swi for UX B1 JX G B	42	SW 1	Limit switch control motor 1.				
	43	SW 2	Limit switch control motor 2.				
ies ply	50	24V-	Accessories power supply output				
sori	51	24V+					
Acces	52	24 Vsafe+	Tested safety device power supply output (photocell transmitter and safety edge transmitter). Output active only during operating cycle.				
	60	Common	IC 1 and IC 2 inputs common				
nmands	61	IC 1	Configurable command input 1 (N.O.) - Default START E. START E / START I / OPEN / CLOSE / PED / TIMER / TIMER PED Refer to the "Command input configuration" table.				
Coi	62	IC 2	Configurable command input 2 (N.O.) - Default PED. START E / START I / OPEN / CLOSE / PED / TIMER / TIMER PED Refer to the "Command input configuration" table.				

2812163 00100\_04

	Terminal	Definition	Description
	70	Common	STOP, SAFE 1 and SAFE 2 inputs common
	71	STOP	The command stops movement. (N.C.) If not used, leave jumper inserted.
devices	72	SAFE 1	Configurable safety input 1 (N.C.) - Default PHOT. PHOT / PHOT TEST / PHOT OP / PHOT OP TEST / PHOT CL / PHOT CL TEST / BAR / BAR TEST / BAR 8K2 Refer to the "Safety input configuration" table.
fety	73	FAULT 1	Test input for safety devices connected to SAFE 1.
Sat	74	SAFE 2	Configurable safety input 2 (N.C.) - Default BAR. PHOT / PHOT TEST / PHOT OP / PHOT OP TEST / PHOT CL / PHOT CL TEST / BAR / BAR TEST / BAR 8K2 Refer to the "Safety input configuration" table.
	75	FAULT 2	Test input for safety devices connected to SAFE 2.
enna	Y	ANTENNA	Antenna input. Use an antenna tuned to 433MHz, Use RG58 coax cable to connect the Antenna and Receiver. Metal bodies close to the antenna
Ant	#	SHIELD	can interfere with radio reception. If the transmitter's range is limited, move the antenna to a more suitable position.

#### **AUX output configuration**

Aux logic= 0 - 2ND RADIO CHANNEL output. Contact stays closed for 1s when 2nd radio channel is activated.
Aux logic= 1 - SCA GATE OPEN LIGHToutput. Contact stays closed during opening and with leaf open, intermittent during closing, open with leaf closed.
Aux logic= 2 - COURTESY LIGHT command output. Contact stays on for 90 seconds after the last operation.
Aux logic= 3 - ZONE LIGHT command output. Contact stays closed for the full duration of operation.
Aux logic= 4 - STAIR LIGHT output. Contact stays closed for 1 second at start of operation.
Aux logic= 5 - GATE OPEN ALARM output. Contact stays closed if the leaf stays open for double the set TCA time.
Aux logic= 6 - FLASHING LIGHT output. Contact stays closed while leaves are operating.
Aux logic= 7 - SOLENOID LATCH output. Contact stays closed for 2 seconds each time gate is opened.
Aux logic= 8 - MAGNETIC LOCK output. Contact stays closed while gate is closed.
Aux logic= 9 - MAINTENANCE output. Contact stays closed once the value set for the Maintenance parameter is reached, to report that maintenance is required.
Aux logic= 10 - FLASHING LIGHT AND MAINTENANCE output.

Contact stays closed while leaves are operating. If the value set for the Maintenance parameter is reached, once the gate has finished moving and the leaf is closed, the contact closes for 10 sec. and opens for 5 sec. 4 times to report that maintenance is required.

**Command input configuration** 

IC logic= 1 - Input configured as Start I. Operation according to 5EEP-by-5EEP Pau. logic. Internal start for traffic light control.

IC logic= 2 - Input configured as Open

The command causes the leaves to open. If the input 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.

IC logic= 3 - Input configured as Closed. The command causes the leaves to close.

IC logic= 4 - Input configured as Ped.

The command causes the leaf to open to the pedestrian (partial) opening position. Operation according to SEEP-b3-SEEP. logic

IC logic= 5 - Input configured as Timer. Operation same as open except closing is guaranteed even after a mains power outage.

IC logic= 6 - Input configured as Timer Ped. The command causes the leaf to open to the pedestrian (partial) opening position. If the input stays closed, the leaf stays open until the contact is opened. If the input stays closed and a Start E, Start I or Open command is activated, a complete opening-closing cycle is performed before returning to the pedestrian opening position. Closing is guaranteed even after a mains power outage.

#### Safety input configuration

SAFE logic= 0 - Input configured as Phot (photocell) non tested (\*). (fig.F, ref.1). Enables connection of devices not equipped with supplementary test contacts. 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. If not used, leave jumper inserted.

SAFE logic= 1 - Input configured as Phot test (tested photocell). (fig.F, ref.2).

Switches photocell testing on at start of operation. 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.

SAFE logic= 2 - Input configured as Phot op (photocell active during opening only) non tested (\*). (fig.F, ref.1). Enables connection of devices not equipped with supplementary test contacts. In the event beam is broken, photocell operation is disabled during closing. During opening, stops motion for as long as the photocell beam stays broken. If not used, leave jumper inserted.

SAFE logic= 3 - Input configured as Phot op test (tested photocell active during opening only (fig.F, ref.2). Switches photocell testing on at start of operation. In the event beam is broken, photocell operation is disabled during closing. During opening, stops motion for as long as the photocell beam stays broken.

SAFE logic= 4 - Input configured as Phot cl (photocell active during closing only) non tested (\*). (fig.F, ref.1). Enables connection of devices not equipped with supplementary test contacts. In the event beam is broken, photocell operation is disabled during opening. During closing, movement is reversed immediately. If not used, leave jumper inserted.

SAFE logic= 5 - Input configured as Phot cl test (tested photocell active during closing only (fig.F, ref.2). Switches photocell testing on at start of operation. In the event beam is broken, photocell operation is disabled during opening. During closing, movement is reversed immediately.

SAFE logic= 6 - Input configured as Bar (safety edge) non tested (\*). (fig.F, ref.3). Enables connection of devices not equipped with supplementary test contacts. The command reverses movement for 2 sec.. If not used, leave jumper inserted.

SAFE logic= 7 - Input configured as Bar (tested safety edge (fig.F, ref.4).

Switches safety edge testing on at start of operation. The command reverses movement for 2 sec.

SAFE logic= 8 - Input configured as Bar 8k2 (fig.F, ref.5). Input for resistive edge 8K2. The command reverses movement for 2 sec.



#### 6) MOTOR WIRING Fig. E

#### . 80 7) SAFETY DEVICES

Note: only use receiving safety devices with free changeover contact.

7.1) TESTED DEVICES Fig. F 7.2) CONNECTION OF 1 PAIR OF NON-TESTED PHOTOCELLS FIG. D

8) CALLING UP MENUS: FIG. 1

8.1) PARAMETERS MENU (PBc BD) (PARAMETERS TABLE "A")

8.2) LOGIC MENU (டல் டே) (LOGIC TABLE "B")

# 8.3) RADIO MENU (r Rd lo) (RADIO TABLE "C") IMPORTANT NOTE: THE FIRST TRANSMITTER MEMORIZED MUST BE IDENTIFIED BY ATTACHING THE KEY LABEL (MASTER).

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 or fixed code).
 Cloning to replace transmitters already entered in receiver.
 Transmitter database management.
 Receiver community management.
 To use these advanced features, refer to the universal handheld programmer's instructions and to the general receiver programming guide.

8.4) DEFAULT MENU (dEFRULE) Restores the controller's DEFAULT factory settings. Following this reset, you will need to run the AUTOSET function again.

#### 8.5) LANGUAGE MENU (LRoGURGE)

Used to set the programmer's language on the display.

#### 8.6) AUTOSET MENU (RUEoSEE)

- 6) AUTOSET MENU (HULDSEE) Launch an autoset operation by going to the relevant menu. As soon as you press the OK button, the "........" message is displayed and the control unit commands the device to perform a full cycle (opening followed by closing), during which the minimum torque value required to move the leaf is set automatically. The number of cycles required for the autoset function can range from 1 to 3. During this stage, it is important to avoid breaking the photocells' beams and not to use the START and STOP commands or the display. Once this operation is complete, the control unit will have automatically set the optimum torque values. Check them and, where necessary, edit them as described in the programming section.

# 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.



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

#### 8.7) INSTALLATION TEST PROCEDURE

- 1. Run the AUTOSET cycle (\*)
- 2. Check the impact forces: if they fall within the limits (\*\*) skip to point 10 of the procedure, otherwise
- 3. Where necessary, adjust the speed and sensitivity (force) parameters: see parameters table.
- 4. Check the impact forces again: if they fall within the limits (\*\*) skip to point 10 of the procedure, otherwise
- 5. Apply a shock absorber profile
- 6. Check the impact forces again: if they fall within the limits (\*\*) skip to point 10 of the procedure, otherwise
- 7. Apply pressure-sensitive or electro-sensitive protective devices (such as a safety edge) (\*\*)
- Check the impact forces again: if they fall within the limits (\*\*) skip to point 10 8. of the procedure, otherwise

- 9. Allow the drive to move only in "Deadman" mode
- 10. Make sure all devices designed to detect obstacles within the system's operating range are working properly
- Before running the autoset function, make sure you have performed all the assembly and make-safe operations correctly, as set out in the installation warnings in the drive's manual.
- (\*\*) Based on the risk analysis, you may find it necessary to apply sensitive protective devices anyway

**8.8) LIMIT SWITCH ADJUSTMENT MENU** (L.5: Rd J) Used to adjust limit switches for motors featuring encoders. The menu is enabled with the following motors: LUX BT, LUX G BT. In all other cases, the "not RuR ILRbLE" message is displayed. NOTE: these operations must be performed in deadman mode at reduced speed and without the safety devices operating. If logic mode "I" nbt. RcE" is set, only messages relating to motor 1 will be displayed ("oPf" i" and "cLf" i").

#### 8.9) STATISTICS MENU

Used to view the version of the board, the total number of operations (in hundreds), the number of transmitters memorized and the last 30 errors (the first 2 digits indicate the position, the last 2 give the error code). Error 01 is the most recent.

#### 8.10) PASSWORD MENU

**0. LOJ FRASEVORD VIEND** Used to set a password for the board's wireless programming via the U-link network. With "PROTECTION LEVEL" logic set to 1,2,3,4, the password is required to access the programming menus. After 10 consecutive failed attempts to log in, you will need to wait 3 minutes before trying again. During this time, whenever an attempt is made to log in, the display will read "BLOC". The default password is 1234. password is 1234.

# 9) CLOSING LIMIT SWITCH PRESSURE Fig. G Ref. A-B OPENING DIRECTION Fig. G Ref. C-D

# 10) CONNECTION WITH EXPANSION BOARDS AND UNIVERSAL HANDHELD PROGRAMMER VERSION> V1.40 (Fig. H) Refer to specific manual.

#### 11) U-LINK OPTIONAL MODULES

Refer to the U-link instructions for the modules. The use of some models causes lowered radio capacity. Adjust the system using an appropriate antenna tuned to 433MHxz.

#### 12) SOLENOID LOCK Fig. I

#### SOLENOID LOCK WARNING: In the case of leaves longer than 3m, it is essential to install WARINING. .... a solenoid lock.

Fig. I shows a sample connection of an ECB 24V~ solenoid latch connected to the THALIA control panel.

In order to control the solenoid lock, the THALIA panel needs a special board mod. ME BT.

#### 13) RESTORING FACTORY SETTINGS (Fig.J)

WARNING: this operation will restore the control unit's factory settings and all transmitters stored in its memory will be deleted. WARNING! Incorrect settings can result in damage to property and injury to

people and animals.

- Cut off power to the board (Fig.J ref.1)
- Open the Stop input and press the and OK keys together (Fig.J ref.2)
- Switch on the board's power (Fig.J ref.3)
- The display will read RST; confirm within 3 sec. by pressing the OK key (Fig.J ref.4) - Wait for the procedure to finish (Fig.J ref.5)
- Procedure finished (Fig.J ref.6)

#### 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.

#### Ŵ Impact forces can be reduced by using deformable edges.

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).

#### Definition Parameter min. max. Default Personal Description oPEn dELRY Motor 2 opening delay 0 10 3 Motor 2 opening delay time with respect to motor 1. E IDE time [s] CLS dELRY Motor 1 closing delay 0 25 3 Motor 1 closing delay time with respect to motor 2. F IDE time [s] Automatic closing time 0 120 10 Waiting time before automatic closing. EcR [s] Time-to-clear traffic light ErFLühtelrt 1 180 40 Time-to-clear for the zone run through by traffic controlled by the traffic light. zone [s] Slow-down distance for motor(s) during opening, given as a percentage of total travel. WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active. ATTENTION: with actuators with integrated locks, the permanently active slowdown to a value higher than 5 is mandatory. Slow-down distance 0 50 oP.d (St.SLoUd 10 during opening [%]

#### TABLE "A" - PARAMETERS MENU - (PBc 80)

Parameter	min.	max.	Default	Personal	Definition	Description
cL.d ISE.SLoUd	0	50	10		Slow-down distance during closing [%]	Slow-down distance for motor(s) during closing, given as a percentage of total travel. WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active. ATTENTION: with actuators with integrated locks, the permanently active slowdown to a value higher than 5 is mandatory.
d ISE.dEcEL	0	50	15		Deceleration distance [%]	Deceleration distance (switch from running speed to slow-down speed) for motor(s) both during opening and during closing, given as a percentage of total travel. WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active.
PRrEIRL oPEnInG	10	99	99		Partial opening M1 [%]	Partial opening distance as a percentage of total opening following activation of PED pedestrian command.
oPForcE	1	99	50		Leaf force during opening [%]	Force exerted by leaf/leaves during opening. This is the percentage of force delivered, beyond the force stored during the autoset cycle (and subsequently updated), before an obstacle alarm is generated. The parameter is set automatically by the autoset function. 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 (**).
cLSForcE	1	99	50		Leaf force during closing [%]	Force exerted by leaf/leaves during closing. This is the percentage of force delivered, beyond the force stored during the autoset cycle (and subsequently updated), before an obstacle alarm is generated. The parameter is set automatically by the autoset function. 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 (**).
oP SPEEd	15	99	99		Opening speed [%}	Percentage of maximum speed that can be reached by motor(s) during opening. WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active.
cL SPEEd	15	99	99		Closing speed [%]	Percentage of maximum speed that can be reached by motor(s) during closing. WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active.
SLou SPEEd	15	99	25		Slow-down speed [%]	Opening and closing speed of motor(s) during slow-down stage, given as a percentage of maximum running speed. WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: When the display reads ""SET"", obstacle detection is not active.
PR IntEnRocE	0	250	0		Programming number of operations for maintenance threshold [in hundreds]	Allows you to set a number of operations after which the need for maintenance will be reported on the AUX output configured as Maintenance or Flashing Light and Maintenance .

(\*) In the European Union, apply standard EN 12453 for force limitations, and standard EN 12445 for measuring method. (\*\*) Impact forces can be reduced by using deformable edges.

#### TABLE "B" - LOGIC MENU - (Loն ໄດ)

Logic	Definition	Default	Cross out setting used	Optional extras
			0	Motors not active
			1	ELI 250 BT
	Motor type		2	PHOBOS N BT
	(Cat the time of motor		3	IGEA BT
Pocor corc	connected to the	0	4	LUX BT
	board).		5	LUX G BT
			6	SUB BT
			7	KUSTOS BT A - PHOBOS BT A
	Automatic Closing Time	0	0	Logic not enabled
667			1	Switches automatic closing on
	Fast closing	0	0	Logic not enabled
			1	Closes 3 seconds after the photocells are cleared before waiting for the set TCA to elapse.
		0	0	Inputs configured as Start E, Start I, Ped operate with 4-step logic.
SEEP-BY-SEEP PouEPne	Step-by-step		1	Inputs configured as Start E, Start I, Ped operate with 3-step logic. Pulse during closing reverses move- ment.
			2	Inputs configured as Start E, Start I, Ped operate with 2-step logic. Movement reverses with each pulse.
	Dro slave		0	The flashing light comes on at the same time as the motor(s) start.
PrE-HLHri'	Pre-alarm	0	1	The flashing light comes on approx. 3 seconds before the motor(s) start.

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INSTALLATION MANUAL						
Logic	Definition	Default	Cross out setting used	Optional extras		
hold-to-rün	Deadman		0	Pulse operation. Deadman mode. Input 61 is configured as OPEN UP. Input 62 is configured as CLOSE UP. Operation continues as long as the OPEN UP or CLOSE UP keys are held down. WARNING: cafety devices are not enabled		
		0	2	Emergency Deadman mode. Usually pulse operation. If the board fails the safety device tests (photocell or safety edge, Er0x) 3 times in a row, the device is switched to Deadman mode, which will stay active until the OPEN UP or CLOSE UP keys are released. Input 61 is configured as OPEN UP. Input 62 is configured as CLOSE UP. WARNING: with the device set to Emergency Deadman mode, safety devices are not enabled.		
	Plack nulses during		0	Pulse from inputs configured as Start F. Start L. Ped has effect during opening		
IbL oPEn	opening	0	1	Pulse from inputs configured as Start E, Start I, Ped has no effect during opening.		
	Die de mula e durin n		0	Pulse from inputs configured as Start F. Start J. Ped has effect during TCA pause		
ЮЦ Еся	Block pulses during TCA	0	1	Pulse from inputs configured as start E. Start I. Ped has no effect during TCA pause		
			1	Pulse from inputs configured as Start E. Start I. Ped has floe need during tex plause.		
IbL cLoSE	Block pulses during	0	0	Pulse from inputs configured as start E, start I, red has effect during closing.		
			1	Pulse from inputs configured as Start E, Start I, Ped has no effect during closing.		
			0	Logic not enabled		
rRГ Ы∟о⊍ с.оР	Hammer during opening	0	1	Before opening completely, the gate pushes for approx. 2 seconds as it closes. This allows the solenoid lock to be released more easily. IMPORTANT - Do not use this function if suitable mechanical stops are not in place.		
rAP blob c.cl			0	Logic not enabled		
	Hammer during closing	0	1	Before closing completely, the gate pushes for approx. 2 seconds as it opens. This allows the solenoid lock to be released more easily. IMPORTANT - Do not use this function if suitable mechanical stops are not in place.		
bLoc PErS ISt	Stop maintenance		0	Logic not enabled		
		0	1	If motors stay idle in fully open or fully closed position for more than one hour, they are switched on in the direction of the stop for approx. 3 seconds. This operation is performed every hour. NB: In hydraulic motors, this function serves to compensate a possible reduction in the volume of oil due to a drop in temperature during extended pauses, such as during the night, or due to internal leakage. IMPORTANT - Do not use this function if suitable mechanical stops are not in place.		
	Closing limit switch pressure		0	Movement is stopped only when the closing limit switch trips: in this case, the tripping of the closing limit switch must be adjusted accurately (Fig.G Ref.B).		
PrESS Suc		0	1	Use when there is a mechanical stop in closed position. This function allows leaves to press against the mechanical stop without the Amperostop sensor inter- preting this as an obstacle. Thus the rod continues its stroke for a few seconds after meeting the closing limit switch or as far as the mechanical stop. In this way, the leaves come to rest perfectly against the stop by allowing the closing limit switches to trip slightly earlier (Fig.G Ref.A).		
			0	The Amperostop safety trip threshold stays at the same set value.		
IcE	lce feature	0	1	The controller automatically adjusts the obstacle alarm trip threshold at each start up. 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. If in doubt, use auxiliary safety devices. This feature is useful when dealing with installations running at low temperatures. WARNING: once this feature has been activated, you will need to perform an autoset opening and closing cycle.		
I Pohoo	1 motor active	0	0	Both motors active (2 leaves).		
		Ľ	1	Only motor 1 active (1 leaf).		
oPEn in othEr	Open in other	0	0	Standard operating mode (See Fig.G Ref. C).		
d IrEct.	direction		1	Opens in other direction to standard operating mode (See Fig. G Ref.D)		
			0	Input configured as Phot (photocell).		
5955 (	Configuration of	0	1	Input configured as Phot test (tested photocell).		
SHFE I	safety input SAFE 1. 72		2	Input configured as Phot op (photocell active during opening only).		
			3	Input configured as Phot op test (tested photocell active during opening only).		
			4	Input configured as Phot cl (photocell active during closing only).		
	Cart		5	Input configured as Phot cl test (tested photocell active during closing only).		
SRFE 2	Configuration of safety input SAFE 2. 74	6	6	Input configured as Bar, safety edge.		
			7	Input configured as Bar, tested safety edge.		
			8	Input configured as Bar 8k2.		

ENGLISH

INSTALLATION MANUAL						
Logic	Definition	Default	Cross out setting used	Optional extras	2163 001	
			0	Input configured as Start E.	D81	
	Configuration of		1	Input configured as Start I.	ĺ	
lc I	command input IC 1. 61	0	2	Input configured as Open.		
			3	Input configured as Close.		
			4	Input configured as Ped		
1- 7	Configuration of	4				
	62	4	2			
			6	Input configured as Timer Pedestrian.		
			0	Output configured as 2nd Radio Channel.		
ЯИН О	Configuration of	6		Output configured as SCA (gate open light).		
			2	Output configured as Courtesy Light command.		
			4	Output configured as Zone Light command.		
			5	Output configured as Alarm		
	Configuration of		6	Output configured as Flashing light		
ЯЦН З	AUX 3 output.	0	7	Output configured as Latch		
	26-37		8	Output configured as Magnetic lock		
			9	Output configured as Maintenance		
			10	Output configured as Flashing Light and Maintenance.		
	Fixed code	0	0	Receiver is configured for operation in rolling-code mode. Fixed-Code Clones are not accepted.		
r inco cooc			1	Receiver is configured for operation in fixed-code mode. Fixed-Code Clones are accepted.		
	Setting the protection level		0	<ul> <li>A - The password is not required to access the programming menus</li> <li>B - Enables wireless memorizing of transmitters.</li> <li>Operations in this mode are carried out near the control panel and do not require access:</li> <li>- 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.</li> <li>- Press within 10 sec. the hidden key and normal key (T1-T2-T3-T4) of a transmitter to be memorized.</li> <li>The receiver exits programming mode after 10 sec.: you can use this time to enter other new transmitters by repeating the previous step.</li> <li>C - Enables wireless automatic addition of clones.</li> <li>Enables clones generated with the universal programmer and programmed Replays to be added to the receiver's memory.</li> <li>D - Enables wireless automatic addition of replays.</li> <li>Enables programmed Replays to be added to the receiver's memory.</li> <li>E - The board's parameters can be edited via the U-link network</li> </ul>		
			1	A - You are prompted to enter the password to access the programming menus The default password is 1234. No change in behaviour of functions B - C - D - E from 0 logic setting		
ProtEct Ion LEuEL		0	2	A - You are prompted to enter the password to access the programming menus The default password is 1234. B - Wireless memorizing of transmitters is disabled. C - Wireless automatic addition of clones is disabled. No change in behaviour of functions D - E from 0 logic setting		
			3	<ul> <li>A - You are prompted to enter the password to access the programming menus The default password is 1234.</li> <li>B - Wireless memorizing of transmitters is disabled.</li> <li>D - Wireless automatic addition of Replays is disabled.</li> <li>No change in behaviour of functions C - E from 0 logic setting</li> </ul>		
			4	<ul> <li>A - You are prompted to enter the password to access the programming menus The default password is 1234.</li> <li>B - Wireless memorizing of transmitters is disabled.</li> <li>C - Wireless automatic addition of clones is disabled.</li> <li>D - Wireless automatic addition of Replays is disabled.</li> <li>E - The option of editing the board's parameters via the U-link network is disabled.</li> <li>Transmitters are memorized only using the relevant Radio menu.</li> <li>IMPORTANT: This high level of security stops unwanted clones from gaining access and also stops radio interference, if any.</li> </ul>		
	Serial mode		0	Standard SLAVE, board respires and communicates sources of the section take		
	(Identifies how has a		0	Stanuaru SLAVE: Doard receives and communicates commands/diagnostics/etc.		
ser ML fodt	is configured in a BFT network connection).	0	1	Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.		
RddrESS	Address	0	[]	Identifies board address from 0 to 119 in a local BFT network connection. (see U-LINK OPTIONAL MODULES section)		

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## **INSTALLATION MANUAL**

Logic	Definition	Default	Cross out setting used	Optional extras
			0	Input configured as Start E command.
			1	Input configured as Start I command.
			2	Input configured as Open command.
			3	Input configured as Close command.
			4	Input configured as Ped command.
			5	Input configured as Timer command.
			6	Input configured as Timer Pedestrian command.
	<b>C C C C C C C C C C</b>		7	Input configured as Phot (photocell) safety.
	EXPI1 input on		8	Input configured as Phot op safety (photocell active during opening only).
EHPII	input-output expan-	1	9	Input configured as Phot cl safety (photocell active during closing only).
	sion board.		10	Input configured as Bar safety (safety edge).
	1-2		11	Input configured as Phot test safety (tested photocell). Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.
			12	Input configured as Phot op test safety (tested photocell active during opening only). Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.
			13	Input configured as Phot cl test safety (tested photocell active during closing only). Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.
			14	Input configured as Bar safety (tested safety edge). Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.
			0	Input configured as Start E command.
	Configuration of EXPl2 input on input-output expansion board.		1	Input configured as Start I command.
			2	Input configured as Open command.
			3	Input configured as Close command.
			4	Input configured as Ped command.
51 PH3		0	5	Input configured as Timer command.
			6	Input configured as Timer Pedestrian command.
			7	Input configured as Phot (photocell) safety.
			8	Input configured as Phot op safety (photocell active during opening only).
			9	Input configured as Phot cl safety (photocell active during closing only).
			10	Input configured as Bar safety (safety edge).
	Configuration of		0	Output configured as 2 <sup>nd</sup> Radio Channel.
	EXPO2 output	11	1	Output configured as SCA (gate open light).
EHPo (	on input-output		2	Output configured as Courtesy Light command.
	expansion board 4-5		3	Output configured as Zone Light command.
			4	Output configured as Stair Light.
			5	Output configured as Alarm.
	Configuration of		6	Output configured as Flashing light.
5UD 7	EXPO2 output	11	/	Output configured as Laton.
CHPOC	expansion board	11	ð	Output configured as Magnetic lock.
	6-7		У 10	Output configured as frame Light control with LD Doard.
			10	Output configured as Traffic Light control with TLB board
LABEE IN LUCH	Traff a Balt to a		0	Dra-flashing switched off
	flashing	0	1	Red lights flash for 3 seconds at start of operation
	5		0	Red lights off when gate closed
-Ed ( 800	Steadily lit red light	0		
811,845	,	-	1	Red lights on when gate closed.

### TABLE "C" - RADIO MENU (r Rd lo)

Logic	Description
Rdd SERrE	Add Start Key associates the desired key with the Start command
Rdd Zch	Add 2ch Key associates the desired key with the 2nd radio channel command. Associates the desired key with the 2nd radio channel command. If no output is configured as 2nd Radio Channel Output, the 2nd radio channel controls the pedestrian opening.
ErRSE 64	Erase List WARNING! Erases all memorized transmitters from the receiver's memory.
cod rH	<b>Read receiver code</b> Displays receiver code required for cloning transmitters.
υK	<ul> <li>ON = Enables remote programming of cards via a previously memorized W LINK transmitter. It remains enabled for 3 minutes from the time the W LINK transmitter is last pressed.</li> <li>OFF= W LINK programming disabled.</li> </ul>