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UNIVERSAL CONTROL UNIT FOR ONE OR TWO MOTORS



INSTALLATION MANUAL BFL **U-LINK** UNAC - C E - ((ER-Ready)) AZIENDA CON SISTEMA DI GESTIONE EE link INTEGRATO CERTIFICATO DA DNV = UNI EN ISO 9001:2008 = UNI EN ISO 14001:2004

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" aan de binnenkant zorgvuldig!

INSTALLER WARNINGS

WARNING! Important safety instructions. Carefully read and comply with all the warnings and instructions that come with the product as incorrect installation can cause injury to people and animals and damage to property. The warnings and instructions give important information regarding safety,

installation, use and maintenance. Keep hold of instructions so that you can attach them to the technical file and keep them handy for future reference. GENERAL SAFETY

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

-The units making up the machine and its installation must meet the requirements of the following European Directives, where applicable: 2014/30/EC, 2014/35/ EC, 2006/42/EC, 2011/305/EC, 99/05/EC and later amendments. For all countries outside the EEC, it is advisable to comply with the standards mentioned, in addition to any national standards in force, to achieve a good level of safety

The Manufacturer of this product (hereinafter referred to as the "Firm") disclaims all responsibility resulting from improper use or any use other than that for which the product has been designed, as indicated herein, as well as for failure to apply Good Practice in the construction of entry systems (doors, gates, etc.)

-Installation must be carried out by qualified personnel (professional installer, according to EN 12635), in compliance with Good Practice and current code.

- Before installing the product, make all structural changes required to produce safety gaps and to provide protection from or isolate all crushing, shearing and dragging hazard areas and danger zones in general in accordance with the provisions of standards EN 12604 and 12453 or any local installation standards. Check that the existing structure meets the necessary strength and stability reauirements.
- -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 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.

For roller shutter automation only
1) The motor's moving parts must be installed at a height greater than 2.5 m above the floor or other surface from which they may be reached.

2) The gearmotor must be installed in a segregated and suitably protected space

so that it cannot be reached without the aid of tools. -Install any fixed controls in a position where they will not cause a hazard, away from moving parts. More specifically, hold-to-run controls must be positioned within direct sight of the part being controlled and, unless they are key operated, must be installed at a height of at least 1.5 m and in a place where they cannot

be reached by the public. -Apply at least one warning light (flashing light) in a visible position, and also attach a Warning sign to the structure.

Attach a label near the operating device, in a permanent fashion, with information on how to operate the automated system's manual release.

-Make sure that, during operation, mechanical risks are avoided or relevant protective measures taken and, more specifically, that nothing can be banged, crushed, caught or cut between the part being operated and surrounding parts. -Once installation is complete, make sure the motor automation settings are

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

WIRING

WARNING! For connection to the mains power supply, use: a multicore cable with a cross-sectional area of at least 5x1.5mm² or 4x1.5mm² when dealing with threephase power supplies or 3x1.5mm² for single-phase supplies (by way of example, type H05RN-F cable can be used with a cross-sectional area of 4x1.5mm²). To connect auxiliary equipment, use wires with a cross-sectional area of at least 0.5 mm². Only use pushbuttons with a capacity of 10A-250V or more.

Wires must be secured with additional fastening near the terminals (for example, using cable clamps) in order to keep live parts well separated from safety extra low voltage parts.

During installation, the power cable must be stripped to allow the earth wire to be connected to the relevant terminal, while leaving the live wires as short as possible. The earth wire must be the last to be pulled taut in the event the cable's fastening device comes loose.

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

Only gualified 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



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.

DECLARATIONS OF CONFORMITY CAN BE FOUND AT http://www.bftautomation.com/CE INSTRUCTIONS FOR USE AND ASSEMBLY CAN BE FOUND IN THE DOWN-LOAD 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.

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







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PROGRAMMAZIONE MENÙ CHRONO - CHRONO MENU PROGRAMMING - CHRONO MENU PROGRAMMING PROGRAMMIERUNG MENÜ CHRONO - PROGRAMACIÓN MENÚ CHRONO - PROGRAMMERING CHRONO-MENU

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l valori sono programmabili a step di 10 minuti - Values are programmable in 10 minutes' steps Les valeurs sont programmables par étape de 10 minutes - Die Werte können in Schritten von 10 Minuten programmiert werden Los valores se puede programar con intervalos de 10 minutos - De waarden zijn programmeerbaar met stappen van 10 minuten

00:00	Lunedì Monday Lundi Montag Lunes Maandag	Martedì Tuesday Mardi Dienstag Martes Dinsdag	Mercoledì Wednesday Mercredi Mittwoch Miércoles Woensdag	Giovedì Thursday Jeudi Donnerstag Jueves Donderdag	Venerdì Friday Vendredi Freitag Viernes Vrijdag	Sabato Saturday Samedi Samstag Sábado Zaterdag	Domenica Sunday Dimanche Sonntag Domingo Zondag
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Fascia 1 Time band 1 Tranche1 Zeitraum 1 Franja 1 Bereik 1	Inizio / Beginning Début / Beginn Inicio / Begin 07.00	Inizio / Beginning Début / Beginn Inicio / Begin 07.00	Inizio / Beginning Début / Beginn Inicio / Begin 06.00	Inizio / Beginning Début / Beginn Inicio / Begin 07.00	Inizio / Beginning Début / Beginn Inicio / Begin 07.00	Inizio / Beginning Début / Beginn Inicio / Begin 10.00	Inizio / Beginning Début / Beginn Inicio / Begin 10.00
	Fine / End Fin / Ende Final / Einde 12.00	Fine / End Fin / Ende Final / Einde 12.00	Fine / End Fin / Ende Final / Einde 12.00	Fine / End Fin / Ende Final / Einde 12.00	Fine / End Fin / Ende Final / Einde 12.00	Fine / End Fin / Ende Final / Einde 12.00	Fine / End Fin / Ende Final / Einde 12.00
Fascia 2 Time band 2 Tranche 2 Zeitraum 2 Franja 2 Bereik 2	Inizio / Beginning Début / Beginn Inicio / Begin 14.00	Inizio / Beginning Début / Beginn Inicio / Begin 00.00	Inizio / Beginning Début / Beginn Inicio / Begin 14.00	Inizio / Beginning Début / Beginn Inicio / Begin 00.00	Inizio / Beginning Début / Beginn Inicio / Begin 14.00	Inizio / Beginning Début / Beginn Inicio / Begin 00.00	Inizio / Beginning Début / Beginn Inicio / Begin 00.00
	Fine / End Fin / Ende Final / Einde 18.00	Fine / End Fin / Ende Final / Einde 00.00	Fine / End Fin / Ende Final / Einde 18.00	Fine / End Fin / Ende Final / Einde 00.00	Fine / End Fin / Ende Final / Einde 18.00	Fine / End Fin / Ende Final / Einde 00.00	Fine / End Fin / Ende Final / Einde 00.00

Fascia non programmata. Viene lasciata a 0 No scheduled time zone. It is left at 0 Tranche non programmée. Est laissée à 0 Zeitraum nicht programmiert. Wird auf 0 gelassen Franja no programada. Se deja en 0 Niet geprogrammeerd bereik Wordt losgelaten op 0

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ESPAÑOL





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2) GENERAL INFORMATION The RIGEL 6 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. Its main features are:

Its main features are: - Check of 1 or 2 single-phase motors fitted with thermostat - Control of 1 or 2 single phase motors Note: 2 motors of the same type must be used. - Opening/closing limit switch control inputs, separate for each motor - Separate inputs for safety devices - Time band management - Integrated obstacle detection - Motor pre-heating with integrated sensor reading - Adjustable electrodynamic braking - Approach speed slow-down - 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 or replacement easier. It comes with a series of prewired jumpers to make the installer's job on site easier.

The jumpers concern terminals: 41-42, 41-43, 41-44, 41-45, 70-71, 70-72, 70-74, 76-77, 76-79, 81-82, 81-84. If the above-mentioned terminals are being used, remove the relevant jumpers.

TESTING

The **RIGEL 6** panel controls (checks) the run relays, triacs and safety devices (pho-tocells and edges), 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. **ATTENTIONI** if the leaf is installed in a public area or if an automatic operating mode is enabled, we recommend a pair of photocells is installed at a height of 5 cm together with another pair at a height of 40-50 cm. Automatic mode means any control not voluntarily activated by the user (example: TCA function chrono etc.) control not voluntarily activated by the user (example: TCA function, chrono, etc.)

3) TECHNICAL SPECIFICATIONS								
Power supply	220-230V 50/60Hz(*)							
Low voltage/mains insulation	> 2MOhm 500V							
Dielectric rigidity	mains/LV 3750V~ for 1 m	mains/LV 3750V~ for 1 minute						
Accessories power supply	24V~ (demand max. 1A) 24V~safe							
AUX 0	NO 220-230V~ (80W MAX) powered contact	\land						
AUX 1	NO220-230V~ (80WMAX) powered contact	AUX0+ AUX1+						
AUX 2	NO contact (MAX 220-230V~ 80W) 80W MAX							

AUX 3	NO contact (Max 24V~)	10W MAX
LOCK	Output for 12V sole- noid lock:	10W MAX
Dimensions	see Fig. B	
Fuses	see Fig. C	
N° of combinations	4 billion	
Max.n° of transmitters that can be memorized	63	

(*other voltages to order)

Use cycle	continuous	continuous	1 min. ON/ 2 min. OFF	1 min. ON/ 2 min. OFF
Operating temperature range	-20°C/+50°C	-20°C/+55°C	-20°C/+50°C	-20°C/+55°C
Maximum motor power 220-230V	2x375 W 1x750 W	2x250 W 1x500 W	2x650 W 1x750 W	2x500 W 1x750 W
Maximum motor power110-120V	2x320 W 1x390 W			

M1+M2+AUX0+AUX1+AUX2+AUX3+LOCK= 1300W MAX T=+50°C

Usable transmitter versions:

All ROLLING CODE transmitters compatible with $((\in R\text{-Ready}))$

4) TUBE ARRANGEMENT Fig. A

5) 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 suitably insulated with at least 1mm of additional insulation. Wires must be secured with additional fastening near the terminals, using devices such as cable clamps.

All connecting cables must be kept far enough away from the dissipater.

	Terminal	Definition	Description					
er ly	L	LINE						
ddr	Ν	NEUTRAL	Single-phase power supply 220-230V 50/60Hz(*)					
SI P	GND	EARTH						
	10	MOT1 RUN						
	11	MOT 1 COM	Connection motor 1. Time lag during closing.					
tor	12	MOT1 RUN						
м М	14	MOT2 RUN	pnnection motor 2. Time lag during opening.					
	15	MOT 2 COM	\bigwedge Note: if " $f_{ab} = s_{ab}$ = 1 do not connect any wires to terminals 14.15.16					
	16	MOT2 RUN	Vote: IF 1 1 ac.on. = 1 do not connect any wires to terminais 14-15-16					
	20	AUX 1 - 220-230V~ POWERED CONTACT	AUX 0 configurable output - Default setting FLASHING LIGHT. MONOSTABLE RADIO CHANNEL/ SCA GATE OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT/ GATE OPEN ALARM/ FLASHING LIGHT/ SQL ENQID LATCH/ MAGNETIC LOCK/ MAINTENANCE/ FLASHING LIGHT AND MAINTE-					
	21	<u>/!\</u>	NANCE / GATE STATUS / BISTABLE RADIO CHANNEL / TIMED RADIO CHANNEL. Refer to "AUX output configuration" table.					
	22	AUX 1 - 220-230V~ POWERED CONTACT	AUX 1 configurable output - Default setting ZONE LIGHT Output. MONOSTABLE RADIO CHANNEL/ SCA GATE OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT/ GATE OPEN ALARM/ FLASHING LIGHT/ SOLENOID LATCH/ MAGNETIC LOCK/ MAINTENANCE/ FLASHING LIGHT AND MAINTE-					
	23		NANCE / GATE STATUS / BISTABLE RADIO CHANNEL / TIMED RADIO CHANNEL. Refer to "AUX output configuration" table.					
Aux	24	AUX 2 - FREE CONTACT	AUX 2 configurable output - Default setting SCA GATE OPEN LIGHT Output. MONOSTABLE RADIO CHANNEL/ SCA GATE OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT/ GATE OPEN ALARM/ FLASHING LIGHT/ SOLENOID LATCH/ MAGNETIC LOCK/ MAINTENANCE/ FLASHING LIGHT AND MAINTE-					
	25	(N.O.)	NANCE / GATE STATUS / BISTABLE RADIO CHANNEL / TIMED RADIO CHANNEL. Refer to "AUX output configuration" table.					
	26	AUX 3 - FREE CONTACT	AUX 3 configurable output - Default setting MONOSTABLE RADIO CHANNEL Output. MONOSTABLE RADIO CHANNEL/ SCA GATE OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT/ GATE OPEN ALARM/ FLASHING LIGHT/ SOLENOID LATCH/ MAGNETIC LOCK/ MAINTENANCE/ FLASHING LIGHT AND MAINTE-					
	27	(11.0.)	NANCE / GAIE STATUS / BISTABLE RADIO CHANNEL / TIMED RADIO CHANNEL. Refer to "AUX output configuration" table.					
	28		Type of lock logic= 0 - 12V solenoid latch output. Output activated with a pulse each time gate is opened or closed (MODEL ECB)					
	29		Type of lock logic= 1 - 12V magnetic lock output. Output activated when gate is closed or closing					
	40		Not used					
tch	41	+ REF SWE	Limit switch common					
swi	42	SWC 1	Motor 1 closing limit switch SWC1 (N.C.).					
nit	43	SWO 1	Motor 1 opening limit switch SWO1 (N.C.).					
5	44	SWC 2	Motor 2 closing limit switch SWC2 (N.C.).					
	45	SWO 2	Motor 2 opening limit switch SWO2 (N.C.).					
r v	50	24V-	Accessories nower supply output					
ssoi wei ppl	51	24V+						
Acce: po sul	52	24 Vsafe+	Tested safety device power supply output (photocell transmitter and safety edge transmitter). Output active only during operating cycle.					

	Terminal	Definition	Description
	60	Common	IC 1 and IC 2 inputs common
	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.
Commands	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.
	63	Common	IC 3 and IC 4 inputs common
	64	IC 3	Configurable command input 3 (N.O.) - Default OPEN. START E / START I / OPEN / CLOSE / PED / TIMER / TIMER PED Refer to the "Command input configuration" table.
	65	IC 4	Configurable command input 4 (N.O.) - Default CLOSE. START E / START I / OPEN / CLOSE / PED / TIMER / TIMER PED Refer to the "Command input configuration" table.
	70	Common	STOP, SAFE 1 and SAFE 2 inputs common
	71	STOP	The command stops movement. (N.C.) If not used, leave jumper inserted.
	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/ BAR OP / BAR OP TEST / BAR 8K2 OP/ BAR CL / BAR CL TEST / BAR 8K2 CL. Refer to the "Safety input configuration" table.
	73	FAULT 1	Test input for safety devices connected to SAFE 1.
-	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/ BAR OP / BAR OP TEST / BAR 8K2 OP / BAR CL / BAR CL TEST / BAR 8K2 CL Refer to the "Safety input configuration" table.
	75	FAULT 2	Test input for safety devices connected to SAFE 2.
	76	Common	SAFE 3 and SAFE 4 inputs common
vices	77	SAFE 3	Configurable safety input 3 (N.C.) - Default PHOT OP. PHOT / PHOT TEST / PHOT OP / PHOT OP TEST / PHOT CL / PHOT CL TEST / BAR / BAR TEST / BAR OP / BAR OP TEST / BAR CL / BAR CL TEST / Pafer to the "Safety input configuration" table
γġ	78	FAULT 3	Test input for safety devices connected to SAFE 3
Safet	79	SAFE 4	Configurable safety input 4 (N.C.) - Default PHOT CL. PHOT / PHOT TEST / PHOT OP / PHOT OP TEST / PHOT CL / PHOT CL TEST / BAR / BAR TEST / BAR OP / BAR OP TEST / BAR CL / BAR CL TEST / Refer to the "Safety input configuration" table.
	80	FAULT 4	Test input for safety devices connected to SAFE 4.
	81	Common	SAFE 5 and SAFE 6 inputs common
	82	SAFE 5	Configurable safety input 5 (N.C.) - Default PHOT. PHOT / PHOT TEST / PHOT OP / PHOT OP TEST / PHOT CL / PHOT CL TEST / BAR / BAR TEST / BAR OP / BAR OP TEST / BAR CL / BAR CL TEST / Refer to the "Safety input configuration" table.
	83	FAULT 5	Test input for safety devices connected to SAFE 5.
	84	SAFE 6	Configurable safety input 6 (N.C.) - Default BAR. PHOT / PHOT TEST / PHOT OP / PHOT OP TEST / PHOT CL / PHOT CL TEST / BAR / BAR TEST / BAR OP / BAR OP TEST / BAR CL / BAR CL TEST / Refer to the "Safety input configuration" table.
	85	FAULT 6	Test input for safety devices connected to SAFE 6.
Itenna	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
Ā	#	SHIELD	antenna can interfere with radio reception. If the transmitter's range is limited, move the antenna to a more suitable position.
NTC		NTC	Input for temperature sensor connection

AUX output configuration
Aux logic= 0 - MONOSTABLE RADIO CHANNEL output. Contact stays closed for 1s when 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 or closed.
Aux logic= 8 - MAGNETIC LOCK output. Contact stays closed when gate is closed and while it is closing.
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.

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AUX output configuration
Aux logic= 11 - Not available
Aux logic= 12 - Not available
Aux logics= 13 - GATE STATUS output Contact stays closed while gate is closed.
AUX logics= 14 - BISTABLE RADIO CHANNEL output
The contact changes status (open-closed) when the radio channel is activated
The contact remains closed for a programmable length of time when the radio channel is activated (output time) If during this time, the button is pressed again, counting starts all over again.
Command input configuration
וכ logic= 0 - Input configured as Start E. Operation according to SEEP-bソ-SEEP מים. logic. External start for traffic light control.
IC logic= 1 - Input configured as Start I. Operation according to SŁEP-bֵיָל אָרָאָי SŁEP רָּסַע. 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 5とEP-bሄ-5とEP. 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 photo- cell 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, move- ment 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.
SAFE logic=9 Input configured as Bar op, safety edge with active inversion only while opening, if activated while closing, the automation stops (STOP) (Fig. F, ref. 3). Allows connecting devices not fitted with supplementary test contact. The operation while opening causes the movement to be reversed for 2 seconds, the operation while closing causes the automation to stop. If not used, leave jumper inserted.
SAFE logic=10 Input configured as Bar op test, safety edge checked with active inversion only while opening, if activated while closing, the automation stops (STOP) (Fig. F, ref. 4). Activates testing safety edges when starting operation. The operation while opening causes the movement to be reversed for 2 seconds, the operation while closing causes the automation to stop.
SAFE logic=11 Input configured as Bar 8k2 op, 8k2 safety edge with active inversion only while opening, if activated while closing, the automation stops (STOP) (Fig. F, ref. 5). The operation while opening causes the movement to be reversed for 2 seconds, the operation while closing causes the automation to stop.
SAFE logic=12 Input configured as Bar cl, safety edge with active inversion only while closing, if activated while opening, the automation stops (STOP) (Fig. F, ref. 3). Allows connecting devices not fitted with supplementary test contact. The operation while closing causes the movement to be reversed for 2 seconds, the operation while opening causes the automation to stop. If not used, leave jumper inserted.
SAFE logic=13 Input configured as Bar cl test, safety edge checked with active inversion only while closing, if activated while opening, the automation stops (STOP) (Fig. F, ref. 4). Activates testing safety edges when starting operation. The operation while closing causes the movement to be reversed for 2 seconds, the operation while opening causes the automation to stop.
SAFE logic=14 Input configured as Bar 8k2 cl, safety edge with active inversion only while closing, if activated while opening, the automation stops (STOP) (Fig. F, ref. 5).

SAFE logic=14 Input configured as Bar 8k2 cl, safety edge with active inversion only while closing, if activated while opening, the automation stop The operation while closing causes the movement to be reversed for 2 seconds, the operation while opening causes the automation to stop.

(*) If "D" type devices are installed (as defined by EN12453), connect in unverified mode, foresee mandatory maintenance at least every six months.

6) SAFETY DEVICES

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

6.1) TESTED DEVICES Fig. F

6.2) CONNECTION OF 1 PAIR OF NON-TESTED PHOTOCELLS FIG. D

7) CALLING UP MENUS: FIG. 1

7.1) PARAMETERS MENU (PRc RC) (PARAMETERS TABLE "A")

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

- 7.3) RADIO MENU (*rRd i*₀) (RADIO TABLE "C")
 IMPORTANT NOTE: THE FIRST TRANSMITTER MEMORIZED MUST BE IDENTIFIED BY ATTACHING THE KEY LABEL (MASTER).
 In the event of manual programming, the first transmitter assigns the RECEIVER'S KEY CODE: this code is required to subsequently clone the radio transmitters. The Clonix built-in on-board receiver also has a number of important advanced features:
 Cloning of master transmitter (rolling code or fixed code).
 Cloning to replace transmitters already entered in receiver.
 Transmitter database management.

The structure of a tablase management.
 To use these advanced features, refer to the universal handheld programmer's instructions and to the general receiver programming guide.
 If a 4-channel remote control is used, keep one for the STOP function.

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

7.5) LANGUAGE MENU (ኒጸሴ፲ሬቭርር) Used to set the programmer's language on the display.

7.6) AUTOSET MENU (RUEoSEE)

- 7.6) AUTOSET MENU (Hild 2525)
 Autoset for motors with limit switches (Fig. E1):
 1 Place the leaves at the closing limit switch.
 2 Start an autoset from the relative menu, press the OK button start motor 1's opening manoeuvre.
 3 The display shows "M1.o".
 4 Wait for the opening limit switch to be triggered to finish motor 1's opening manoeuvre.
- Wait for the opening limit switch to be triggered to mish motor 12 opening manoeuvre. Motor 2 starts opening automatically. A displays "M2.o". Wait for the opening limit switch to be triggered to finish motor 2's opening manoeuvre, the display shows the message "CLOSE". Press the OK button to start motor 2's closing manoeuvre. A displays "M2.c". Wait for the closing limit switch to be triggered to finish motor 2's closing manoeuvre. 6 -
- 8 manoeuvre.
- Motor 1 starts closing automatically. A displays "M1.c".
 10 Wait for the closing limit switch to be triggered to finish motor 1's closing manoeuvre.
- If the work time has been stored correctly, the display shows "OPEN".
 Press the OK button to start the second cycle and calculate the torque value required for the leaf/ves to move, the display shows "M1.o".
 Wait for the opening limit switch to be triggered to finish motor 1's opening monocurrent. 11
- Motor 2 starts opening automatically. A displays "M2.0"
- 14 Wait for the opening limit switch to be triggered to finish motor 2's opening manoeuvre, the display shows the message "CLOSE".
 15 Press the OK button to start motor 2's closing manoeuvre. A displays "M2.c".
 16 Wait for the closing limit switch to be triggered to finish motor 2's closing manoeuvre.
- manoeuvre. 17 Motor 1 starts closing automatically. A displays "M1.c". 18 Wait for the closing limit switch to be triggered to finish motor 1's closing manoeuvre.
- If the autoset has completed correctly, the display shows "OK", if autoset fails, the display shows the message "KO" and the operation must be repeated 19 from phase 1. If motor 1 is set to active, the phases relative to motor 2 are not performed.

Autoset for motors with no limit switches (Fig. E2):

Place the leaves at the closing stops. start an autoset from the relative menu, pressing the OK button start motor ż-

- 4 -
- 6 -
- start an autoset from the relative menu, pressing the OK button start motor 1's opening manoeuvre. The display shows "M1.o". ress the OK button to finish motor 1's opening manoeuvre. A displays "M2.o". Motor 2 starts opening automatically. Press the OK button to finish motor 2's opening manoeuvre, the display shows "CLOSE". Press the OK button to start motor 2's closing manoeuvre. A displays "M2.c" Press the OK button to finish motor 2's closing manoeuvre. A displays "M2.c" Press the OK button to finish motor 2's closing manoeuvre. A displays "M1.c" Motor 1 starts closing automatically. 7 -

- Motor 1 starts closing automatically. Press the OK button to finish motor 1's closing manoeuvre. 10
- 11
- If the work time has been stored correctly, the display shows "OPEN". Press the OK button to start the second cycle and calculate the torque value required for the leaf/ves to move, the display shows "M1.o". Wait for motor 1's work time to intervene to finish motor 1's opening ma-
- noeuvre
- noeuvre.
 13 Motor 2 starts opening automatically. A displays "M2.o".
 14 Wait for Motor 2's work time to intervene to finish motor 2's opening mano-euvre, the display shows the message "CLOSE".
 15 Press the OK button to start motor 2's closing manoeuvre. A displays "M2.c"
 16 Wait for motor 2's work time to intervene to finish motor 2's closing mano-euvre.
- euvre.
- 17 Motor 1 starts closing automatically. A displays "M1.c" 18 Wait for motor 1's work time to intervene to finish motor 1's closing mano-
- euvre.
- 19 If the autoset has completed correctly, the display shows "OK", if autoset fails, the display shows the message "KO" and the operation must be repeated from phase 1.

If motor 1'is set to active, the phases relative to motor 2 are not performed

During this stage, it is important to avoid breaking the photocells' beams, causing the safety devices to intervene, and not to use the START, STOP, OPEN and CLOSE controls or the display. Once this operation is completed, the control unit will have automatically set the optimum parameters and work times. 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.

The impact forces must be limited with the use of active coasts ac-cordance with EN12978.

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.

7.7) INSTALLATION TEST PROCEDURE

- 1. Apply pressure-sensitive or electro-sensitive protective devices (such as a safety edge)
- Run the AUTOSET cycle (*)
 Check the impact forces: if they fall within the limits. Skip to point 5 of the procedure, otherwise
 Allow the drive to move only in "Deadman" mode
- 5. Make sure all devices designed to detect obstacles within the system's operat-

(*) 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 and have set the opening/closing strength, slow-down and slow-down time parameters.

7.8) 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.

7.9) PASSWORD MENU

7.9) PASSWORD MENO 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.

7.10) CHRONO MENU Fig.J Allows setting the operation by time bands. Up to two daily time bands during which the gate remains open (from Monday to Sunday) can be set.

Within the time slot opening of the doors is performed that remain open until the end of the time slot.

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

9) CONNECTION WITH EXPANSION BOARDS AND UNIVERSAL HANDHELD PROGRAMMER. Refer to specific manual.

10) 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.

11) RESTORING FACTORY SETTINGS (Fig.I) 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

WARNING! Incorrect settings can result in damage to property and injury to people and animals.
- Cut off power to the board (Fig.I ref.1)
- Open the Stop input and press the - and OK keys together (Fig.I ref.2)
- Switch on the board's power (Fig.I ref.3)
- The display will read RST; confirm within 3 sec. by pressing the OK key (Fig.I ref.4)
- Wait for the procedure to finish (Fig.I ref.5)
- Procedure finished (Fig.I 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.

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).

TABLE "A" - PARAMETERS MENU - (PRc RD)

Parameter	min.	max.	Default	Personal	Definition	Description
uortt. E. Not. I	3.0	180.0	60.0		Operation time motor 1 [s]	Sets the value of motor 1 / 2 work time in seconds
uor K. E. Not.2	3.0	180.0	60.0		Operation time motor 2 [s]	At the end of an autoset it is set with the actual motor work value
PRrt IRL oPEn InG	3	90	6		Partial opening M1 [s]	Time of partial opening following the activation of motor M1 PED pedestrian control
oPEn dELRY E INE	0	10	3		Motor 2 opening delay time [s]	Motor 2 opening delay time with respect to motor 1.
cLS dELRY E INE	0	25	3		Motor 1 closing delay time [s]	Motor 1 closing delay time with respect to motor 2.
SLou - doun E. Not. I	0	30	0		Slow-down time motor 1 [s]	Sets the approach slow-down time. The slow-down time is subtracted from the work time.
5Lou - doun t. Not.2	0	30	0		Slow-down time motor 2 [s]	NOTE: Do not use with hydraulic motors. (***)
EcR	0	120	10		Automatic closing time [s]	Waiting time before automatic closing.
trFLGhtclrt	1	180	40		Time-to-clear traffic light zone [s]	Time-to-clear for the zone run through by traffic controlled by the traffic light.
oUEPUE E IRE	1	240	10		Activation time of the timed output [s]	Activation length of timed radio channel output in seconds
oPForcE	1	99	50		Leaf force during opening [%]	Force exerted by leaf/leaves during opening. Represents the percentage of force delivered at speed in comparison with the maximum value. WARNING: It affects impact force directly: make sure that current safety requirements are met with the set value (*). If necessary, install anti-crushing safety devices (**).
cLSForcE	1	99	50		Leaf force during closing [%]	Force exerted by leaf/leaves during closing. Represents the percentage of force delivered at speed in comparison with the maxi- mum value. WARNING: It affects impact force directly: make sure that current safety requirements are met with the set value (*). If necessary, install anti-crushing safety devices (**).
SLudForcE	1	99	50		Forza motori in rallentamento [%]	Force exerted by leaf / and slowdown. It represents the percentage of power supplied to slow down. WARNING: It affects impact force directly: make sure that current safety requirements are met with the set value (*). If necessary, install anti-crushing safety devices (**). (***)
ъгЯНЕ	0	99	0		Braking [%]	Set the braking value from 0% (min.) to 99% (max.) according to the gate weight and the mechanical demands involved.
ENEr. brRHE	0	99	60		Emergency braking [%]	Sets the value between 0% (min.) and 99% (max.) of emergency braking, that is performed by activating the safety controls present at the inputs configured as BAR safety edge.
PrEhERL.	0	99	30		Preheating [%]	Set the percentage value of the current from 0 (deactivated pre-heating) to 99% which can be made to pass through the motor windings to keep them at the right temperature. NOTE: the NTC temperature sensor must be connected The sensor must be placed and fixed in contact with the motor to detect the outside temperature
ob5t.5En5.	0	99	0		Obstacle sensitivity	It allows activating obstacle detection. The function is disabled when the parameter is set to 0, setting the value between 1 and the maximum value, obstacle sensitivity can be increased (max value = max sensitivity). It works only with the limit switches. ATTENTION: This obstacle detection function does not guarantee com- pliance with the safety regulations in force (*). To comply with the current safety regulations, install adequate anti-crushing safety devices (**). ATTENTION: The system detects the obstacle only if the leaf is stopped; no obstacles breaking the leaf without managing to stop it are detected. Detection takes place only if the leaf meeting the obstacle is moving at normal speed. The obstacle is not detected during slow-down. (***)
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. (**) The impact forces must be limited using active coasts comply with EN12978

(***) / CAUTION: After a parameter change will need to run an autoset function if the "obstacle sensitivity" is active.

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TABLE "B" - LOGIC MENU - (ໄດຍົ ໄດ)

INSTALLATION MANUAL

Logic	Definition	Default	Cross out setting used	Optional extras						
FeB	Automatic Closing	0	0	Logic not enabled						
22/1	Time		1	Switches automatic closing on						
FRSE cl.S.	Fast closing	0	0	Logic not enabled	a classed before	waiting for t		200		
				Inputs configured as Start E, Start I,				ipse.		
			0	Ped operate with 4-step logic. step-by-step mov.						
			1	Ped operate with 3-step logic. Pulse		2 STEP	3 STEP	4 STEP		
				during closing reverses movement.	CLOSED	0.05146	0.05116	OPENS		
SEEP-BY-SEEP CouECot	Step-by-step movement	0			DURING CLOSING	OPENS	OPENS	STOPS		
			2	Inputs configured as Start E, Start I, Ped operate with 2-step logic Move-	OPEN	0.0050	CLOSES	CLOSES		
			_	ment reverses with each pulse.	DURING OPENING	CLOSES	STOP + TCA	STOP + TCA		
					AFTER STOP	OPENS	OPENS	OPENS		
			0	The flashing light comes on at the same	time as the mot	or(s) start.				
PrE-HLHri'	Pre-alarm	0	1	The flashing light comes on approx. 3 se	econds before the	e motor(s) st	art.			
			0	Pulse operation.						
				Deadman mode.						
			1	Input 61 is configured as OPEN UP. Input 62 is configured as CLOSE UP. Operation continues as long as the OPE	N UP or CLOSE U	P kevs are h	eld down.			
					otonablad	,				
hold-to-rün	Deadman	0		Emorgoney Doodmon mode Usually pu	les operation					
				If the board fails the safety device tests	photocell or safe	ety edge, Er0)x) 3 times in a ro	ow, the device is		
			2	switched to Deadman mode, which will	stay active until	the OPEN U	P or CLOSE UP ke	eys are released.		
			2	Input 62 is configured as CLOSE UP.						
				WARNING: with the device set to Emergency Deadman mode, safety devices are not enabled.						
	Block pulses during		0	Pulse from inputs configured as Start E,	Start I, Ped has e	ffect during	opening.			
161 0850	opening	0	1	Pulse from inputs configured as Start E,	Start I, Ped has n	o effect duri	ng opening.			
IBL EcR	Block pulses during	0	0	Pulse from inputs configured as Start E,	Start I, Ped has e	ffect during	TCA pause.			
	ICA		0	Pulse from inputs configured as Start E,	Start I, Ped has n	o effect duri	ng ICA pause.			
IbL cLoSE	closing	0	1	Pulse from inputs configured as Start E,	Start I, Ped has n	o effect duri	ing closing.			
			0	Logic not enabled						
rRP blob c.oP	Hammer during opening	0	1	Before opening completely, the gate pushes for approx. 2 seconds as it closes. This allows the solend						
	opennig			INCK to be released more easily. IMPORTANT - Do not use this function if suitable mechanical stops are not in place.						
	the second sectors		0	Logic not enabled						
rAP blob c.cl	Hammer during closing	0	1	Before closing completely, the gate pust to be released more easily.	hes for approx. 2	seconds as	it opens. This allo	ows the solenoid lock		
				IMPORTANT - Do not use this function	n if suitable mec	hanical sto	ps are not in pla	ace.		
			0	Logic not enabled				un autitale ad an in		
blac PEcS ISH	Stop maintenance	0		the direction of the stop for approx. 3 seconds. This operation is performed every hour.						
0000 / 0/ 0 /00			1	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 picture to internal leakage						
				IMPORTANT - Do not use this function	n if suitable mec	hanical sto	ps are not in pla	ace.		
			0	Movement is stopped only when the clo limit switch must be adjusted accurately	osing limit switch / (Fig.G Ref.B).	trips: in this	s case, the trippi	ng of the closing		
	Closing limit switch			Use when there is a mechanical stop in closed position.						
PrESS Suc	pressure	0	1	This function allows leaves to press against the mechanical stop without the Amperostop sensor inter- preting this as an obstacle.						
			I	Thus the rod continues its stroke for a few seconds after meeting the closing limit switch or as far as the mechanical too. In this way, the leaves some to rest perfectly against the store by allowing the store in the store of						
				limit switches to trip slightly earlier (Fig	.G Ref.A).	y ugant				
1 Pakaa	1 motor active	0	0	Both motors active (2 leaves).						
1100.00	i motor active		1	Only motor 1 active (1 leaf).						
oPEn in othEr	Open in other	0	0	Standard operating mode (See Fig.G Re	ef. C).					
d IrEct.	direction		1	Opens in other direction to standard op	erating mode (S	ee Fig. G Re	f.D)			
	Configuration of		0	Input configured as Phot (photocell).						
SRFE I	safety input SAFE 1.	0	1	Input configured as Phot test (tested photocell).						
	12		2	Input configured as Phot op (photocell active during opening only).						

ENGLISH

Logic	Definition	Default	Cross out setting used	Optional extras
5055 3	Configuration of		3	Input configured as Phot op test (tested photocell active during opening only).
5HFE C	safety input SAFE 2. 74	6	4	Input configured as Phot cl (photocell active during closing only).
5055 D	Configuration of	-	5	Input configured as Phot cl test (tested photocell active during closing only).
SHFE Safety input SAFE 3.	2	6	Input configured as Bar, safety edge.	
	Configuration of		7	Input configured as Bar, tested safety edge.
SRFE 4	safety input SAFE 4. 79	4	8	Input configured as Bar 8k2 (Inactive on SAFE 3,4,5,6).
	Configuration of		9	Input configured as Bar OP, safety edge with inversion active only while opening. If while closing, the
SRFE S	safety input SAFE 4. 79	0	10	movement stops. Input configured as Bar OP TEST, safety edge tested with inversion active only while opening. If while
			11	Input configured as Bar OP 8k2, safety edge with inversion active only while opening. If while closing, the movement stops.
	Configuration of		12	(Inactive on SAFE 3,4,5,6). Input configured as Bar CL, safety edge with inversion active only while closing. If while opening, the movement stops.
SRFE 6	safety input SAFE 6. 84	6	13	Input configured as Bar CLTEST, safety edge tested with inversion active only while closing. If while opening, the movement stops.
			14	Input configured as Bar CL 8k2, safety edge with inversion active only while closing. If while opening, the movement stops. (Inactive on SAFE 3,4,5,6).
1- 1	Configuration of	0	0	Input configured as Start E.
ic i	61	0	1	Input configured as Start I.
lc 2	command input IC 2.	4	2	Input configured as Open.
	62 Configuration of		3	Input configured as Close.
lc 3	command input IC 3.	2	5	
1c 4	64 Configuration of command input IC 4.	3	6	Input configured as Timer Pedestrian.
	65	0	0	Radio control configured as START F
ic h	Configuration of the 1st radio channel		1	Radio control configured as Start I.
ובח	command		2	Radio control configured as Open.
	Configuration of the 2nd radio channel command		3	Radio control configured as Close
Zah		9	4	Radio control configured as Ped
Cch			5	Radio control configured as STOP
			6	Radio control configured as AUX0 **
3	Configuration of the 3rd radio channel		/	Radio control configured as AUX I ** Padio control configured as AUX I **
5 CN	command	2	9	Radio control configured as AUX2 **
	Configuration of the		10	Radio control configured as EXPO1 **
Чch	4th radio channel command	5	11	Radio control configured as EXPO2 **
			0	Output configured as monostable Radio Channel.
ЯИН О	Configuration of	6	1	Output configured as SCA (gate open light).
			2	Output configured as Courtesy Light command.
	Configuration of		3	Output configured as Zone Light command.
RUH I	AUX 1 output.	3	4	Output configured as Stair Light
			5	Output configured as Alarm
ב נווס	Configuration of	1	0 7	Output configured as Flashing light
חטח כ	AUX 2 output. 24-25		8	
			9	Output configured as Maintenance
	Configuration of AUX 3 output. 26-37	0	10	Output configured as Flashing Light and Maintenance.
яин э			11	Not used
			12	Not used
			13	Output configured as Gate Status
			14	Output configured as Bistable Radio Channel
			15	Output configured as timed Radio Channel
LocH	Type of lock.	0	0	Output configured as 12V solenoid latch.
20211	28-29		1	Output configured as 12V magnetic lock.
	Fixed code	0	0	Receiver is configured for operation in rolling-code mode. Fixed-Code Clones are not accepted.
F IHEd codE			1	Receiver is configured for operation in fixed-code mode. Fixed-Code Clones are accepted.

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Logic	Definition	Default	Cross out setting used	Optional extras
ProtEct Ion LEuEL	Setting the protection level	0	0	 A - The password is not required to access the programming menus B - Enables wireless memorizing of transmitters. Operations in this mode are carried out near the control panel and do not require access: 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. Press within 10 sec. the hidden key and normal key (T1-T2-T3-T4) of a transmitter to be memorized. The receiver exits programming mode after 10 sec.: you can use this time to enter other new transmitters by repeating the previous step. C - Enables wireless automatic addition of clones. Enables clones generated with the universal programmer and programmed Replays to be added to the receiver's memory. D - Enables wireless automatic addition of replays. Enables programmed Replays to be added to the receiver's memory.
			1	E - The board's parameters can be edited via the U-link network 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
			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	 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. D - Wireless automatic addition of Replays is disabled. No change in behaviour of functions C - E from 0 logic setting
			4	 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. D - Wireless automatic addition of Replays is disabled. E - The option of editing the board's parameters via the U-link network is disabled. Transmitters are memorized only using the relevant Radio menu. IMPORTANT: This high level of security stops unwanted clones from gaining access and also stops radio interference, if any.
	Serial mode		0	Standard SLAVE: board receives and communicates commands/diagnostics/etc.
SEr IRL PodE	(Identifies how board 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 to119 in a local BFT network connection. (see U-LINK OPTIONAL MODULES section)
			0	Logic not enabled
chrono	Time bands	0	1	Activates the time bands configured as timer
			2	Activates the time bands configured as pedestrian timer
			0	Input configured as Start E command.
			2	
			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.
			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).
	Configuration of		10	Input configured as safety (safety edge).
EHP I I	EXPI1 input on input-output expan- sion board. 1-2	1	11	Input configured as safety Bar CL safety edge with inversion active only while closing if while opening
			12	Input configured as Phot test safety, tested photocell, Input 3 (EXPI2) on input/output expansion board is
			13	switched automatically to safety device test input, EXPFAULT1. Input configured as Phot op test safety, tested photocell active only while opening. Input 3 (EXPI2) on input/
			7	output expansion board is switched automatically to safety device test input, EXPFAULT1
			15	imput configured as proticilities safety, tested photocelli active only while closing. Input 3 (EXPI2) on input/ output expansion board is switched automatically to safety device test input, EXPFAULT1 Input configured as Bar safety, tested safety edge. Input 3 (EXPI2) on input/output expansion board is
			16	switched automatically to safety device test input, EXPFAULT1.
			17	Input configured as safety Bar OP test, safety edge with inversion active only while opening, if while closing the movement stops. Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.
			18	Input configured as safety Bar CL test, safety edge with inversion active only while closing, if while opening the movement stops. Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.

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Logic	Definition	Default	Cross out setting used	Optional extras
	Configuration of		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.
	EXPI2 input		6	Input configured as Timer Pedestrian command.
EHP 12	on input-output	0	7	Input configured as Phot (photocell) safety.
	1-3		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).
			11	Input configured as safety Bar OP, safety edge with inversion active only while opening, if while closing the movement stops.
			12	Input configured as safety Bar CL, safety edge with inversion active only while closing, if while opening the movement stops.
		11	0	Output configured as monostable Radio Channel.
	Configuration of EXPO2 output on input-output expansion board 4-5		1	Output configured as SCA (gate open light).
			2	Output configured as Courtesy Light command.
ERPoi			3	Output configured as Zone Light command.
			4	Output configured as Stair Light.
			5	Output configured as Alarm.
		11	6	Output configured as Flashing light.
	Configuration of		7	Output configured as Latch.
			8	Output configured as Magnetic lock.
			9	Output configured as Maintenance.
cuo_ 3	EXPO2 output		10	Output configured as Flashing Light and Maintenance.
Enroc	expansion board		11	Output configured as Traffic Light control with TLB board.
	6-7		12	Not used
			13	Output configured as Gate Status
			14	Output configured as Bistable Radio Channel
			15	Output configured as timed Radio Channel
5-866 in 1 1055	Traffic light pro	0	0	Pre-flashing switched off.
PrEFLRSh InG	flashing		1	Red lights flash, for 3 seconds, at start of operation.
ErREE IC L IGHE			0	Red lights off when gate closed.
rEd LAPP ALURYS on	Steadily lit red light	0	1	Red lights on when gate closed.

* Only active on FW > 1.12

Radio channel control configuration
CH logic= 0 - Control configured as Start E. Operation according to 5٤٤٩-٤٤٢ ניסי. logic. External start for traffic light control.
CH logic= 1 - Control configured as Start I. Operation according to 5٤٤٣-٢٢ אים. logic. Internal start for traffic light control.
CH logic= 2 - Control configured as Open. The command causes the leaves to open.
CH logic= 3 - Control configured as Closed. The command causes the leaves to close.
CH logic= 4 - Control configured as Ped. The command causes the leaf to open to the pedestrian (partial) opening position. Operation according to 5とЕР-ЬУ-5とЕР. logic
Logica CH= 5- Control configured as STOP. The command performs a STOP
CH logic= 6 - Control configured as AUX0. (**) The control activates the AUX0 output
CH logic= 7 - Control configured as AUX1. (**) The control activates the AUX1 output
CH logic= 8 -Control configured as AUX2. (**) The control activates the AUX2 output
CH logic= 9 - Control configured as AUX3. (**) The control activates the AUX3 output
CH logic= 10 - Control configured as EXPO1. (**) The control activates the EXPO1 output
CH logic= 11 - Control configured as EXPO2. (**) The control activates the EXPO2 output

(**) Active only if the output is configured as Monostable Radio Channel, Courtesy Light, Zone Light, Stair Light, Bistable Radio Channel or Timed Radio Channel.

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INSTALLATION MANUAL

ABLE "C" - KADIO MENU (FAD ID)				
Logic	Description			
Rdd Ich	Add 1ch Key associates the desired key with the 1nd radio channel command.			
Rdd 2ch	Add 2ch Key associates the desired key with the 2nd radio channel command.			
Rdd 3ch	Add 3ch Key associates the desired key with the 3nd radio channel command.			
Rdd Ych	Add 4ch Key associates the desired key with the 4nd radio channel command.			
ЕгЯЗЕ БЧ	Erase List WARNING! Erases all memorized transmitters from the receiver's memory.			
ErRSE I	Eliminates individual radio control Removes a radio control (if clone or replay is disabled) To select the radio control to be deleted, enter the position or press a button on the radio control to be deleted (the position is displayed)			
cod rH	Read receiver code Displays receiver code required for cloning transmitters.			

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