NET24N





Quadro di comando programmabile

Istruzioni d'uso ed avvertenze



Programmable control board

Operating instructions and warnings



Armoire de commande programmable

Notice d'emploi et avertissements



Programmierbare Steuereinheit

Bedienungsanleitung und Hinweise



Cuadro de maniobra programable

Instrucciones de uso y advertencias



Quadro de comando programável

Instruções para utilização e advertências



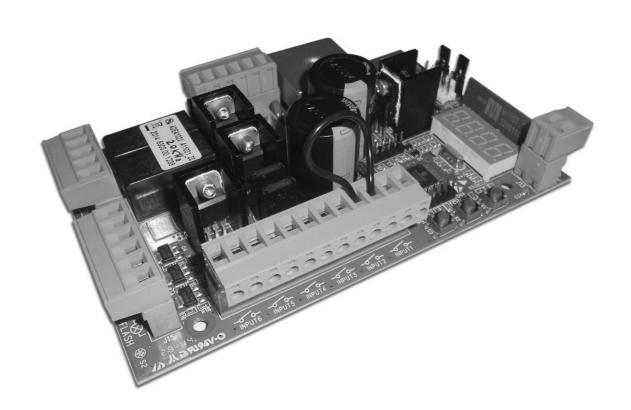
Uniwersalna centrala sterująca

Instrukcja montażu i użytkowania



Программируемая панель управления

Инструкции и предупреждения



NET24N

Universal control panel for 24V operators

Operating instructions and warnings

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1 WARNINGS SUMMARY

WARNING! IMPORTANT SAFETY INSTRUCTIONS. CAREFULLY READ AND FOLLOW ALL WARNINGS AND INSTRUCTIONS THAT ACCOMPANY THE PRODUCT SINCE INCORRECT INSTALLATION COULD CAUSE HARM TO PEOPLE, ANIMALS OR THINGS. WARNINGS AND INSTRUCTIONS PROVIDE IMPORTANT INFORMATION REGARDING SAFETY, INSTALLATION, USE AND MAINTENANCE. KEEP THE INSTRUCTIONS TOGETHER THE TECHNICAL DOCUMENTATION AND FOR FUTURE REFERENCE.

- △ **WARNING** The device may be used by children of less than 8 years of age, people with reduced physical, mental or sensory impairment, or generally anyone without experience or, in any case, the required experience provided the device is used under surveillance or that users have received proper training on safe use of the device and are aware of the dangers related to its use.
- △ **WARNING** Do not allow children to play with the device, the fixed commands or the radio controls of the system.
- △ **WARNING** Product use in abnormal conditions not foreseen by the manufacturer may generate hazardous situations; meet the conditions indicated in these instructions.
- △ **WARNING DEA** System reminds all users that the selection, positioning and installation of all materials and devices which make up the complete automation system, must comply with the European Directives 2006/42/CE (Machinery Directive), 2014/53/UE (RED Directive). In order to ensure a suitable level of safety, besides complying with local regulations, it is advisable to comply also with the above mentioned Directives in all extra European countries.
- △ **WARNING** Under no circumstances use the device in an explosive atmosphere or in areas that may be corrosive or could damage product parts. Check that the temperatures at the installation site are suitable and comply with the temperatures declared on the product label.
- △ **WARNING** When working with the "dead man" switch, make sure that there are no people in the area where the automatism is being used.
- △ **WARNING** Check that there is a switch or an omni polar magneto-thermal circuit breaker that enables complete disconnection in case of over voltage category III conditions installed upstream from the power system.

- △ **WARNING** To ensure an appropriate level of electrical safety always keep the 230V power supply cables apart (minimum 4mm in the open or 1 mm through insulation) from low voltage cables (motors power supply, controls, electric locks, aerial and auxiliary circuits power supply), and fasten the latter with appropriate clamps near the terminal boards.
- △ **WARNING** If the power cable is damaged, it must be replaced by the manufacturer or its technical assistance service or, in any case, by a person with similar qualifications to prevent any risk.
- △ **WARNING** All installation, maintenance, cleaning or repair operations on any part of the system must be performed exclusively by qualified personnel with the power supply disconnected working in strict compliance with the electrical standards and regulations in force in the nation of installation.
- Cleaning and maintenance destined to be performed by the user must not be performed by unsupervised children.
- △ **WARNING** Using spare parts not indicated by **DEA** System and/or incorrect re-assembly can create risk to people, animals and property and also damage the product. For this reason, always use only the parts indicated by **DEA** System and scrupulously follow all assembly instructions.
- △ WARNING Changing the closing intensity could lead to dangerous situations. Therefore, qualified personnel should only perform increases to the closing force. After adjustment, compliance with regulatory limits values should be detected with a force impact-measuring instrument. The sensitivity of the obstacle detection may be adjusted gradually to the door (see programming instructions). The anti-crushing device operation must be checked after each manual adjustment. Manual modification of the force can only be done by qualified personnel by performing the measurement test according to EN 12445. Modifications to the force adjustment must be documented in the machine manual.
- △ **WARNING** The compliance of the internal sensing obstacles device to requirements of EN12453 is guaranteed only if used in conjunction with motors fitted with encoders.
- △ **WARNING** Any external security devices used for compliance with the limits of impact forces must be conform to standard EN12978.
- **WARNING** In compliance with EU Directive 2012/19/EU on waste electrical and electronic equipment (WEEE), this electrical product should not be treated as municipal mixed waste. Please dispose of the product and bring it to the collection for an appropriate local municipal recycling.

EVERYTHING THAT IS NOT EXPRESSLY PROVIDED FOR IN THE INSTALLATION MANUAL IS NOT ALLOWED. CORRECT OP-ERATOR OPERATION IS ONLY ENSUED WHEN THE REPORTED DATA IS RESPECTED. THE COMPANY DOES NOT RESPOND FOR DAMAGE CAUSED BY FAILURE TO COMPLY WITH THE INSTRUCTIONS CONTAINED IN THIS MANUAL. WITHOUT AF-FECTING THE ESSENTIAL FEATURES OF THE PRODUCT, THE COMPANY RESERVES THE RIGHT TO MAKE ANY CHANGES DEEMED APPROPRIATE AND AT ANY TIME IN ORDER TO TECHNICALLY, STRUCTURALLY AND COMMERCIALLY IMPROVE THE PRODUCT WITHOUT BEING REQUIRED TO UPDATE THIS DOCUMENT.

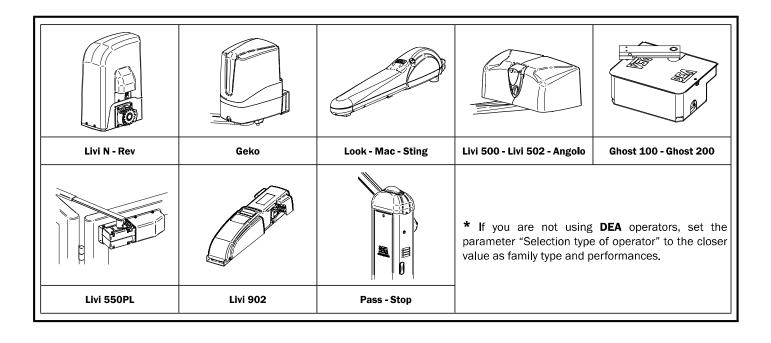
2 PRODUCT DESCRIPTION

NET24N is a universal control panel for **DEA** System 1 or 2 24V === operators automations with or without encoder.

The main feature of this control board is its ease of configuration of inputs and outputs according to any needs thus ensuring adaptability to any type of automation. It is therefore easy to set up and exclude all unnecessary functions.

3 TECHNICAL DATA

		TYPE	00		TYPE 01	TYPE 02		TYPE 03		
	Livi 6/24N	Livi 9/24N	REV	GEKO	ANGOLO Ghost 100/200 LOOK - MAC - STING LIVI 500/502	Livi 902/24 Livi 905/24	PASS	STOP		
					550PL			4÷5 m	≥ 6 m	
Power supply (V)					230 V ~ ±10% (50/60 H	z)				
Rated power transformer (VA)	80 (230 <i>,</i>	VA /22V)	250 VA (230/22V)	120 VA (230/22V)	150 VA (230/22			150 VA (230/22V)	250 VA* (230/22V)	
Fuse F1 (A) (transformer)	1	A			2A				3,15A*	
Batteries		2: 12V :	-	2x 12V 1,3A			2x 12V 4A			
Fuse F2 (A) (batteries input)	15A									
	1x 5A 1x 10A 2x 5A						2x 5A	2x 7A*		
Outputs 24V === motors (maximum output current) (A)	Warning: The above values are calculated by taking the maximum power supplied by the respective processors. In absolute terms, the maximum current for each output should not exceed 10A when using a single motor and 7A when using 2 motors.									
Auxiliaries power supply output					24 V ====					
Stabilized power supply output for safety devices										
"Warning" output	+24 V === max 15 W									
Electric lock output	24V === max 5W or max 1 art. 110									
Flashing light output	24 V === max 15W									
Operating temperature range (°C)					-20÷50 °C					
Receiver frequency	433,92 MHz									
Transmitters type of coding	HCS fix-code - HCS rolling code - Dip-switch - DART									
Max remote controllers managed	100									
* Values for STOP with boom ≥ 6 m.										



4 CONFIGURATION OF THE CONTROL PANEL

The universal control unit NET24N can be used for the management of the following types (上出PE) of closures motorized by **DEA** System: swing and sliding gates, overhead doors and barriers.

In order to ensure maximum adaptability to each <code>LUPE</code> of closure, the control board provides an initial procedure, performed only at the first turn, for the optimal configuration of inputs, outputs and parameters (see diagram A). Once configured, the control panel will operate in the mode "dedicated" to the <code>LUPE</code> of selected closing. After performing the initial configuration it is sufficient to execute the standard programming for the installation on which it is operating.

All settings remain in memory even in the case of subsequent flare-ups (see diagram **B**). If necessary the LYPE of configured closing can be later adjusted following diagram **G**.

FIRST CONTROL BOARD IGNITION

Configuration after the first ignition

- A For the first control panel ignition, proceed as follows:
- 1. Apply power, the display shows in sequence the writing "rE5-" and "LYPE" flashing;
- 2. Press the OK button and hold for 5 seconds until the display shows d□□□ on the display;
- 3. Acting on the → and → keys, select the desired configuration depending on the type of installation (es. dull) and confirm by pressing the ok button:
 - At this point, the selection will be stored and reloaded each time in the future.
- 4. Follow signs, "LYPE", "-00-" followed by the symbol of closed gate "----".

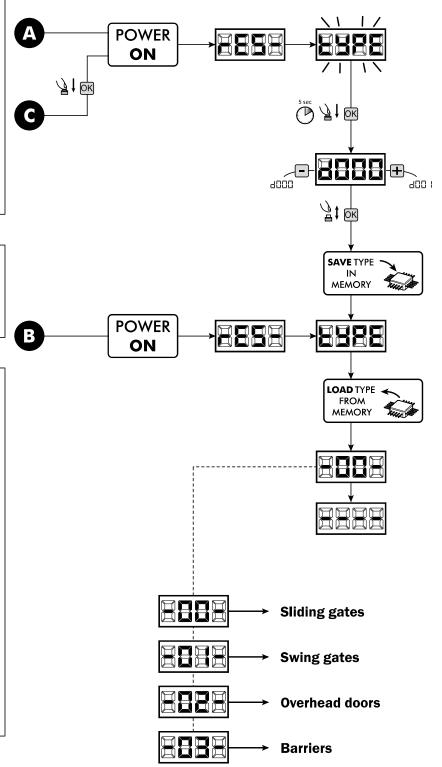
Following ignitions

If you have already saved a configuration, proceed as follows:

Apply power, the display shows in sequence the writing "rE5-", "E4PE", "-100-" followed by the symbol of closed gate "----".

Modify the existing configuration

- If you have already saved a configuration and you want to change it, proceed as follows:
- 1. Hold down the OK button and give power, the display shows in sequence the writing "F5-" and "LYPE" flashing;
- 2. Press the ⋈ button and hold for 5 seconds until the display shows d□□□ (the value changes to match the previous configuration used) on the display;
- 3. Acting on the → and →, select the new desired configuration depending on the type of installation (es. d□□2) and confirm by pressing the OK button;
 - ⚠ Stop the reconfiguration procedure prior to confirmation, involves loading the previous configuration by the control panel without any modification.
 - ⚠ However, if the reconfiguration procedure is brought to an end, the new configuration will take the place of the previous one and will be reloaded each time in the future.
- 4. Follow signs, "E∃PE", "-□□-" followed by the symbol of closed gate "----".



5 ELECTRICAL CONNECTIONS

Execute the wiring following the directions of table 1 and diagrams.

WARNING For adequate electrical safety, keep low safety voltage wires (controls, electro-locks, antenna, auxiliary power) clearly separate from 230V ~ power wires (minimum 4 mm in air or 1 mm via supplementary insulation) placing them in plastic raceways and securing them with adequate clamps near terminal boards.

WARNING For connection to the mains, use a multipolar cable having a minimum section 3x1,5 mm² and complying with the current regulations. For connecting the motors, use a minimum cross section 1,5 mm² cable and complying with the current regulations. As an example, if the cable is out side (outdoor), must be at least equal to H07RN-F, whereas if it (in a raceway), must be at least equal to H05VV-F.

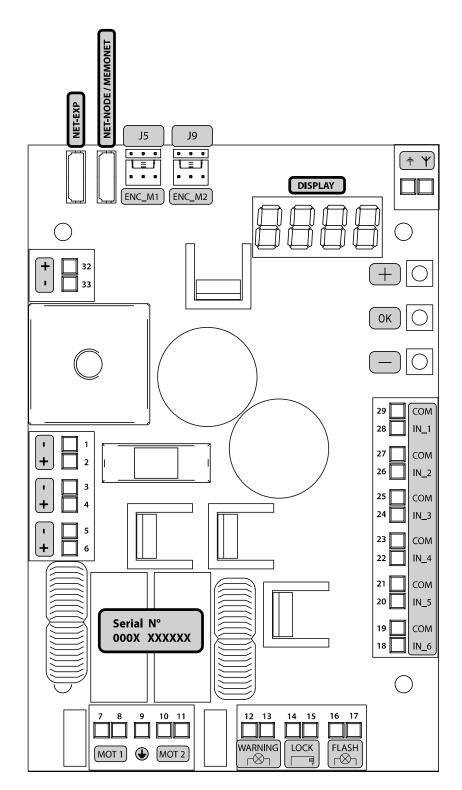
WARNING All wires must be striped and unsheathed in the immediate vicinity of terminals. Keep wires slightly longer to subsequently eliminate any excess.

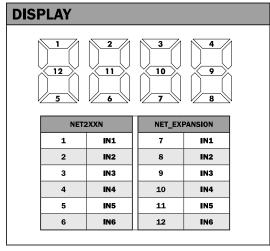
WARNING To connect the encoder to the control panel, use only a dedicated cable $\geq 3x0.25$ mm².

Table 1 "terminal board connections"

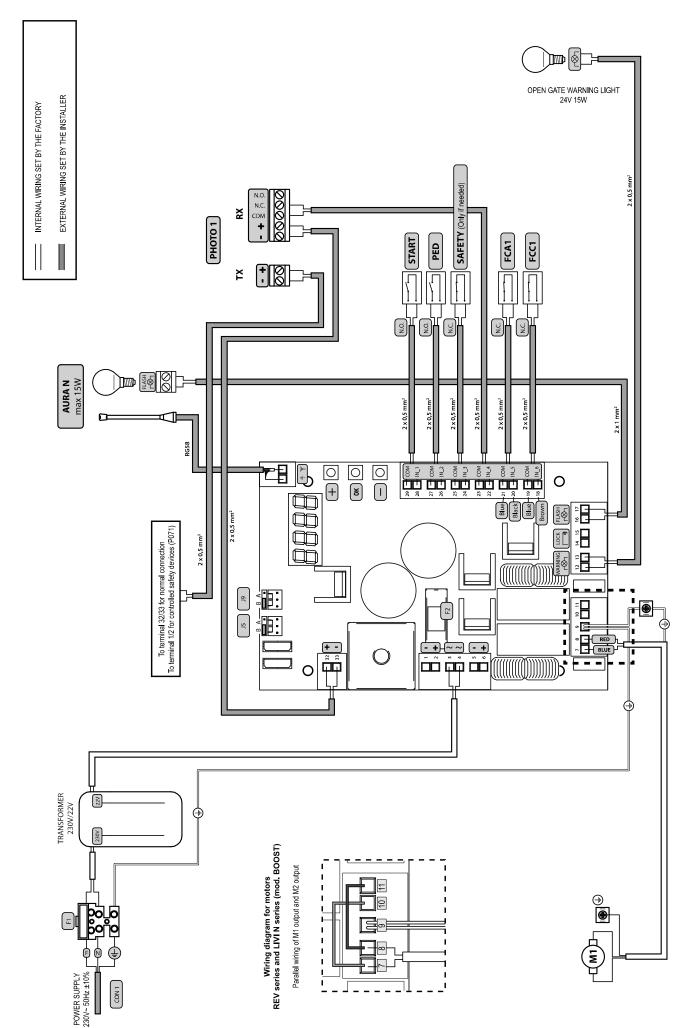
3-4	22 V ~	22 V ~	22 V ~ transformer power supply input							
5-6	24VBatt		· · · · · · · · · · · · · · · · · · ·	y or photovoltaic accun	nulator Green Energy i	nput (follow carefully r	oolarity indications).			
7-8			or 1 output	, . l		1 (,			
9	<u> </u>	<u> </u>	ction of motors metallic	: narts						
10-11			ator 2 output (if present)							
	WARNING	<u> </u>	=== max 15 W output for open gate fix warning light (if P052=0), flashing (if P052=1) or courtesy light (if							
12-13		P052>	· · · · · · · · · · · · · · · · · · ·	r open gate nx warning	Hgrit (ii 1 002 0); iido	71111g (11 1 002 1) 01 00	urtesy light (li			
14-15	} ELETTR	14 (-)	"Boost" output for electric-lock, max 1 x art. 110 (if P062=0), 24V pulse output, max 5W (if P062=1), step by step (if P062=2), electro-brake output for not self-locking operators (if P062=3), output for electric-lock							
		15 (+)	or temporized output	rnal relay (if P062=4), (if P062>5).	output for electro-mag	nets power supply for	barriers (ifP062=5)			
16-17	FLASH L	24 V =	== Flashing light outpu	t max 15W art. AURA N	J					
			TYPE 00	TYPE 01	TYPE 02	TYPE 03	ad- the			
				If unused, s	hort circuit		ands and / or ad- each input to the			
18 - IN_6		6	014 (FCC 1)	□II (STOP)	000 (NONE)	000 (NONE)	and			
19 - Com	– inp	out 6	N.C.	N.C.	N.O.	N.O.	nds			
20 - IN_5) - IN_5		DI2 (FCA 1)	009 (PHOTO 2)	000 (NONE)	000 (NONE)	nma ure e ing"			
21 - Com	Input 5		N.C.	N.C.	N.O.	N.O.	t cor onfig e.e. pter			
22 - IN_4			008 (PHOTO 1)	008 (PHOTO 1)	□II (STOP)	000 (NONE)	If the installation requires different commands and / ditional to the standard, you can configure each input required rate. Refer to Chapter "Advanced Programming".			
23 - Com	_ IIIp	out 4	N.C.	N.C.	N.C.	N.O.	diff			
24 - IN_3	l	2	DID (SAFETY)	□I□ (SAFETY)	□I□ (SAFETY)	OOO (NONE)	uires rd, y rec Refe			
25 - Com	– Inp	out 3	N.C.	N.C.	N.C.	N.O.	requanda			
26 - IN_2			002 (PEDESTRIAN)	002 (PEDESTRIAN)	008 (PHOTO 1)	008 (PHOTO 1)	ation e sta			
27 - Com	– Inp	out 2	N.O.	N.O.	N.C.	N.C.	stalla to th			
28 - IN_1		4	OOI (START)	DDI (START)	□□I (START)	OOI (START)	onal i			
29 - Com	– inp	out 1	N.O.	N.O.	N.O.	N.O.	ditic			
-	Υ	Aerial s	ignal input							
-	Ť	Ground	aerial input							
32-33	+24VAUX	32 (+) 33 (-)	24 V === power supply output for auxiliary devices (AUX + ST)							
1-2	+24V_ST	1 (-) 2 (+)	Stabilized 24 V === p	Stabilized 24 V === power supply output for tested safety devices max 200mA						
J5	J9	I	er selection Jumper:							
B A	B A		A position = operators with encoder (remind to set P029=0) B position = operators without encoder (remind to set P029=1)							

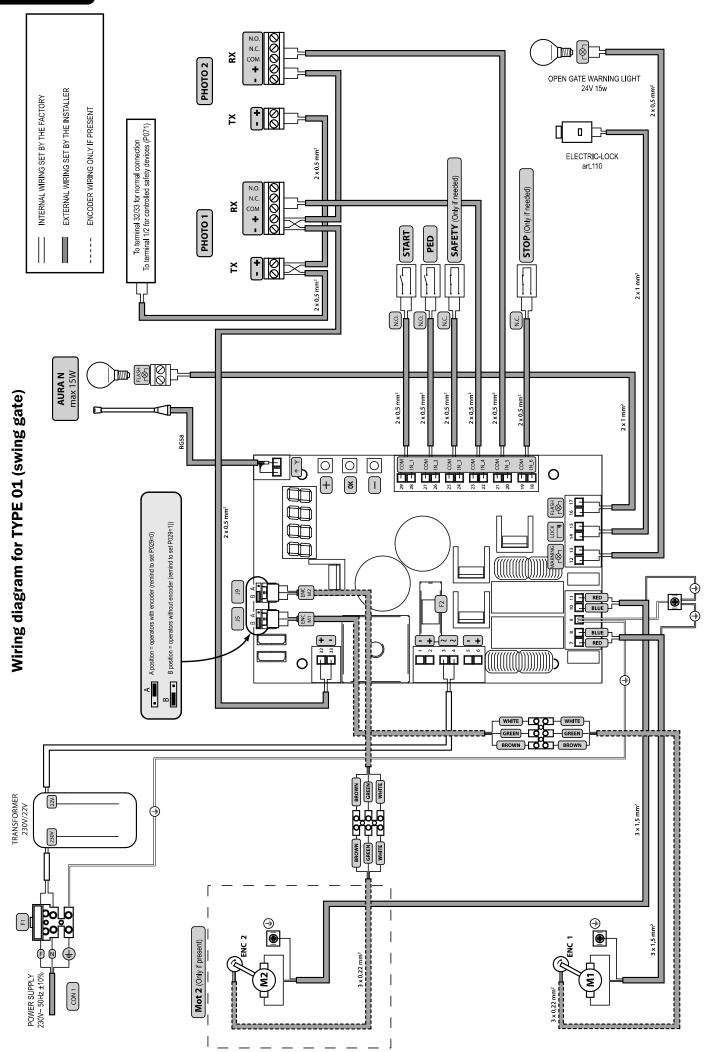
Basic scheme NET24N



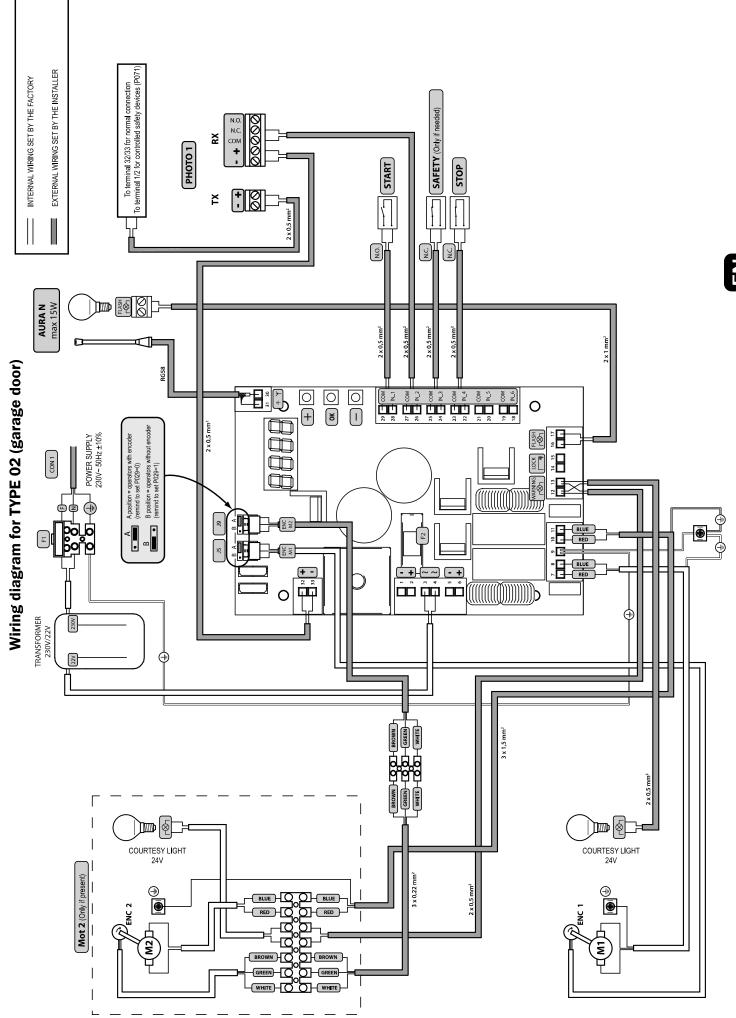


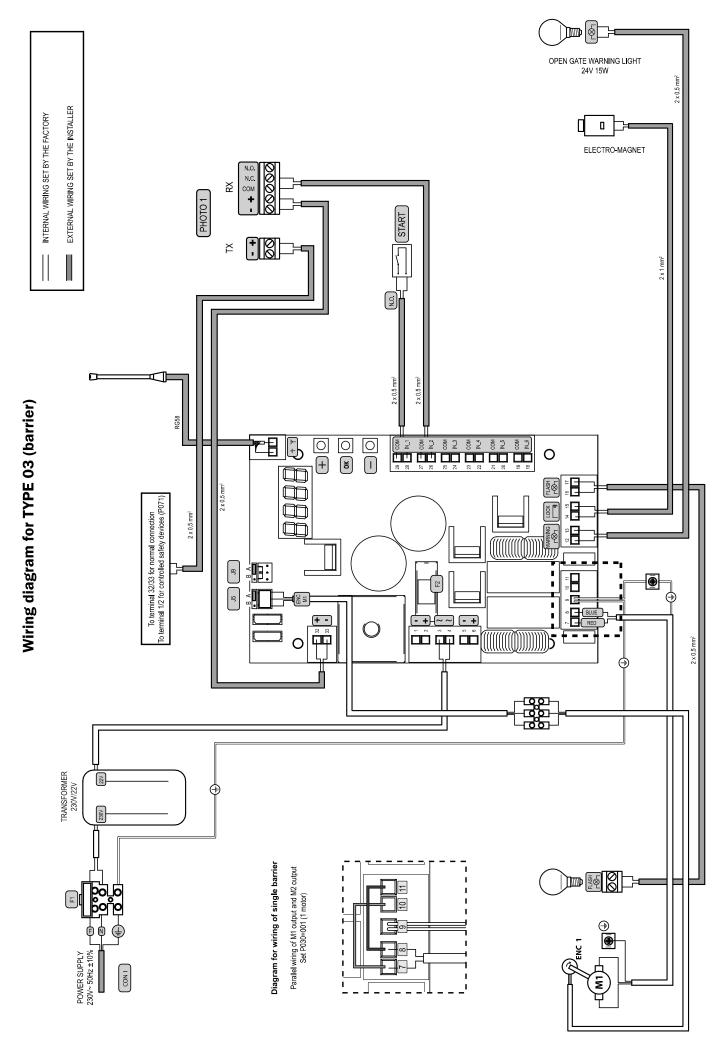












6 STANDARD PROGRAMMING

1 Power Supply

When turned on, "FE5-", "DDH2" (or the current firmware version) "EHPE", "-D 1-" (or the selected Type) appear on the display in sequence followed by the closed gate symbol "----".



* If the control panel has already been programmed and the power fails or is switched off - once power is returned and a START command is given, the position reset procedure is performed (see "rESP" in the table "WORKING STATUS MESSAGES" on page EN-18.

-0 (-

-02-

-83-

2 Visualisation of inputs and operations-counter status

- 1. Scroll the parameters with the + and keys until the screen reads P013;
- 2. Access the parameter by pressing the OK button;
- 3. The "Input Status" is shown on the screen (check that this is correct):



- 4. Press the OK button again;
- 5. The "Total Operation Counter" L□∃□ appears on the screen followed by the □□□□ multiplier.

To calculate the number of completed operations, the two values must be multiplied.

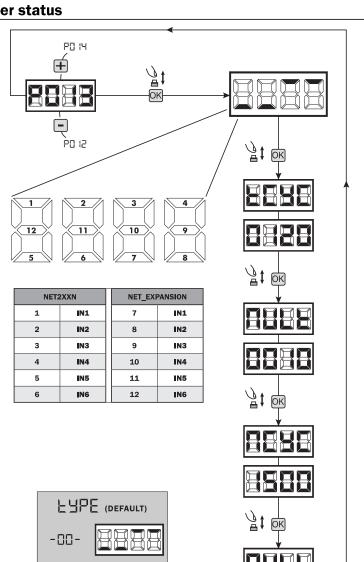
I.e.: $E[\exists [= 120x10 = 1200 \text{ operations completed}]$

- 6. Press the OK button again;
- 7. The "Total Maintenance Counter" ☐☐☐☐ appears on the screen followed by the ☐☐☐☐ multiplier.

To calculate the number of operations remaining before the maintenance request, the two values must be multiplied.

I.e.: $\Pi \exists \exists \exists \exists 1500x1 = 1500$ operations yet to be completed before the maintenance request

8. Press the ok button again to exit the parameters (P013 is shown on the screen again).



₹† @

3 Selection type of operators

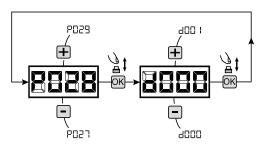
! IMPORTANT!

- Scroll down the parameters with and keys until you visualise P028:
- 2. Access the parameter by pressing the OK key;
- 3. Acting on + and keys, set:

Type 00	Type 01	Type 02	Type 03
• 005 5/24 • 006 8/24 • 007 Rev	• 000 Geko • 001 Look - Mac - Sting • 002 Ghost • 003 Livi 500 - 502 - 550PL - Angolo	• 003 Livi 902/24 - 905/24	• 003 Pass • 004 Stop

Warning: If you are using non **DEA** System operators, set the parameter on the closer value for family type and performances (refer to table on page EN-3).

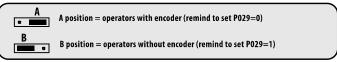
4. Confirm your choice by pressing the OK key (display returns again to P028).



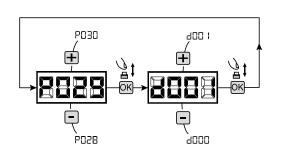
4 Selection operating with or without encoder

! IMPORTANT !

Warning: Remember to correctly set the jumpers J5 and J9.

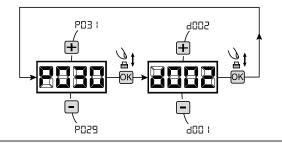


- Scroll down the parameters with and keys until you visualise P029;
- 2. Access the parameter by pressing the OK key;
- 3. Acting on + and keys, set:
 - d000=for operators with encoder;
 - d001=for operators without encoder;
- Confirm your choice by pressing the OK key (display returns again to P029).



5 Selection 1 or 2 operators functioning

- Scroll down the parameters with and keys until you visualise P030;
- 2. Access the parameter by pressing the OK key;
- 3. Acting on + and keys, set:
 - d001=for a single motor operating;
 - d002=for 2 motors operating;
- Confirm your choice by pressing the OK key (display returns again to P030).

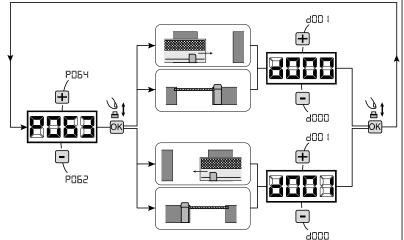


6 Selection of direction of motion (only Type 00 and Type 03)

- Scroll down the parameters with and keys until you visualise P063;
- 2. Access the parameter by pressing the OK key;
- 3. Acting on \blacksquare and \blacksquare keys, set:
 - d000=motor in standard position;
 - d001=motor in inverted position;
- 4. Confirm your choice by pressing the Key (display returns again to P063).

Warning: The parameter automatically reverses the motors output open/close.

Warning: Changing this parameter you need to change the parameters for the opening and closing limit switches.

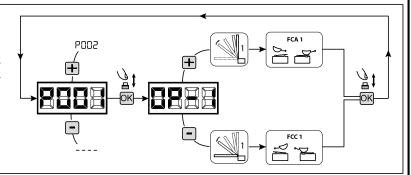


7 How to adjust the limit switche

- 1. Scroll down the parameters untill you visualize P001;
- 2. confirm by pressing the OK key;
- 3. by pressing (OPEN) and (CLOSE), move the leaf in the opening position and adjust the limit switch cam so that it pushes the microswitch in that point;

Repeat adjusting the closing limit switch.

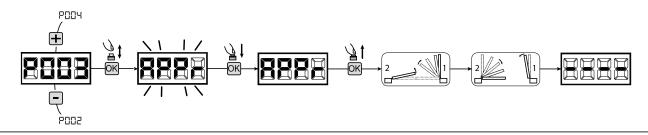
4. Confirm by pressing the OK key (display shows again POO1)



WARNING If the Operator 2 is present, repeat the previous settings using P002.

8 Motor stroke learning

- 1. Scroll down the parameters with + and keys until you visualise P003;
- 2. Access the parameter by pressing the OK key;
- 3. When "RPPr" flashes, continue pressing the OK key;
- 4. Release the Key when "APP-" stops flashing; Start the learning procedure with operator 1 opening (if it starts closing, disconnect the power supply, inverse the operator cables and repeat the operation);
- 5. Wait for the door (or doors in case of using 2 motors) searches and stops on the opening stop and then on the closing stop. If you want to anticipate the stopping strokes in opening, you can manually intervene by giving an impulse to "Start" button (or pressing the "OK" on the control panel) simulating the stroke.
- 6. Once the procedure is ended, the display will show "----".



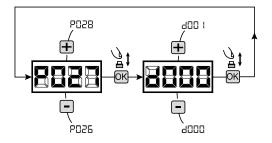
WARNING (only Type 01 and Type 03) Once you have executed the learning stroke, operate a complete cycle (opening/closing) and then check the manual release to make sure it is working properly. If it's to "hard" increase the value of P057 of 1 or more.

9 Transmitters learning

9.1 Transmitters coding selection

- Scroll down the parameters with + and keys until you visualise P027;
- 2. Confirm by pressing on the OK key;
- 3. Select the type of transmitter by scrolling + and keys:
 - d000=fix rolling-code (suggested);
 - d001=complete rolling-code;
 - d002=dip-switch;
 - d003=DART:
- 4. Confirm by pressing on the OK key (display shows again PO27).

Warning: If you need to vary the type of encoding, and only if other remotes with different encoding are memorized, you need to erase memory (P004) **AFTER** you have set the new encoding.

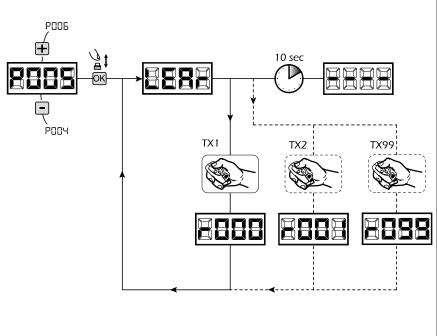


9.2 Learning

- 2. Confirm by pressing on the OK key;
- When the symbol "LER" appears, press on any key of the transmitter you want to memorize:
- 4. The display visualizes the number of the transmitter just memorized and then "上日元";
- Memorize all necessary transmitters repeating this procedure from step 3;
- 6. Wait 10 seconds before quitting the memorization mode, display shows now "----".

Warning: In the case of rolling code remotes, the receiver can be put into learning mode by pressing the hidden button on a remote control previously learned.

Warning: When using personalized transmitters, after entering P005 the learning of the first personalized transmitter is possible only by pressing its hidden button. Afterwards, only transmitters personalized with the same encryption key can be memorized (through the usual procedure), unless a memory reset is carried out (P004).



10 Adjustment of operating parameters

If you need to modify the operating parameters (force, speedness etc..):

- Scroll down the parameters until you visualize the desire parameter (i.g. P032);
- 2. Confirm by pressing on the OK key;
- 3. By pressing on + and -, set up the desired value;
- 4. Confirm by pressing on the Key (display shows the parameters previously selected).

For the complete list of the "Operating Parameters" See the table on page. EN-22.

11 Programming complete

WARNING At the end of the programming procedure, use the buttons + and - until the appearance of the symbol "----", the operator is now ready again for new manoeuvres.

To perform any "Advanced Programming" operations (cancellation of the remotes, configuration inputs, etc. ..), see on page EN-15.

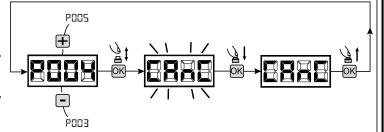
7 ADVANCED PROGRAMMING

Here are some added programming procedures relating to remotes memory management and advanced configuration of the control inputs.

1 Deletion of memorized transmitters

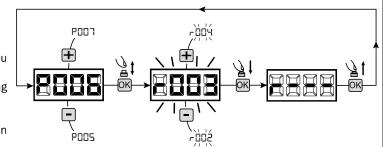
1.1 Deletion of all transmitters

- 1. Scroll down the parameters until you visualize P004;
- 2. Confirm by pressing on the OK key;
- 3. When "[An[" is flashing, press the OK key for a few seconds:
- 4. Release the OK key as soon as "LRnL" stops flashing;
- All memorized transmitters have been deleted (display shows again P004).



1.2 How to search and delete a transmitter

- 1. Scroll down the parameters until you visualize P006;
- 2. Confirm by pressing on the OK key;
- 3. By pressing on
 → and
 →, keys, select the transmitter you want to delete (eg. ¬□□∃);
- When "¬□□∃" flashes, confirm the deletion by pressing the OK key for a few seconds;
- 5. Release the OK key when appears "r = - ";
- The selected transmitter is deleted (display shows again P006).



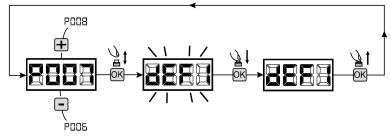
2 Restoring default parameters

2.1 Restoring operating parameters

- Scroll through the parameters with the buttons and until the display shows P007;
- 2. Confirm by pressing on the OK key;
- When "dEF !" is flashing, press the OK key for a few seconds;
- 4. Release the OK key as soon as "dEF 1" stops flashing; All the default values are restored except for the parameters from P016 to P022 and P076 to P098 for the configuration currently in use;
- 5. At the end of the operation display returns to P007.

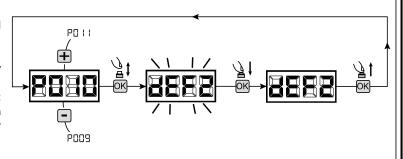
Warning: After you restore the default parameters, you must program the control panel again and adjust all operating parameters, in particular, remember to properly set the operator configuration parameters. (P028 - P029 - P030).

Warning: For reversible motors with electro-brake, remember to set P062 = 3 at the end of the procedure.



2.2 Restoring "I/O" setting (Input/Output)

- Scroll through the parameters with the buttons + and until the display shows P010;
- 2. Confirm by pressing on the OK key;
- When "dEF2" is flashing, press the OK key for a few seconds;
- 4. Release the OK key as soon as "dEF2" stops flashing; All the default values only for the parameters from P016 to P022 and from P076 to P098 are restored for the configuration currently in use;
- 5. At the end of the operation display returns to P010.

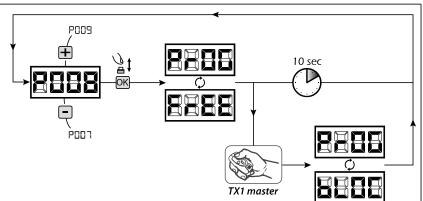


3 Locking-Unlocking access to programming

By using a "dip-switch" remote (regardless of the type of remotes already memorized) it's possible to lock-unlock access to the programming of the control panel to avoid tampering. The remote setting is the locking-unlocking code verified by the control board.

3.1 Locking access to programming

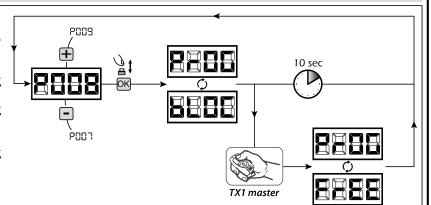
- Scroll through the parameters with the buttons
 and until the display shows P008;
- 2. Access the parameter by pressing the button OK;
- 3. The display shows alternately the writing Prull/FreE to indicate that the control board is waiting for the transmission of the block code;
- 4. Within 10 seconds press CH1 on the "TX Master", the display shows Pr□□/Ы□□ before returning to the list of parameters;
- 5. Access to programming is locked.



WARNING Programming lock/unlock can also be set via Smartphone using the DEAinstaller APP. In this case, an installer code is set (other than zero) that can only be unlocked via APP.

3.2 Unlocking access to programming

- Scroll through the parameters with the buttons
 and until the display shows P008;
- 2. Access the parameter by pressing the button OK;
- 3. The display shows alternately the writing Prii/hlic to indicate that the control board is waiting for the transmission of the unlocking code;
- 4. Within 10 sec. press the CH1 of the "TX Master", the display shows Prof. / Free before returning to the list of parameters;
- 5. Access to programming is unlocked.



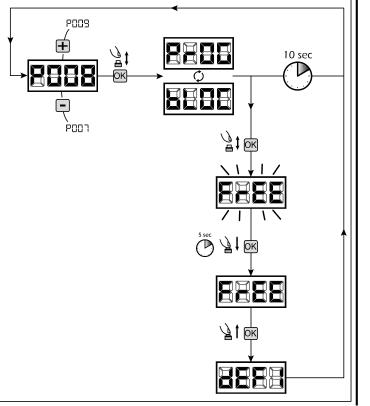
3.3 Unlocking access to programming and global reset

WARNING! This procedure involves the loss of all stored settings.

The procedure allows the unlocking of the control panel without having to know its unlocking code.

Following this release, you must program the control panel again and adjust all operating parameters, in particular, remember to properly set the configuration of parameters (P028 - P029 - P030 - operator configuration). You will also need to repeat the measurement of impact forces to ensure the installation compliance to standards.

- 1. Scroll through the parameters with the buttons 🛨 and 🖃 until the display shows P008:
- 2. Access the parameter by pressing the button OK;
- 3. The display shows alternately the writing $P_-\Box\Box/L\Box\Box$;
- 4. Press the button $\overline{\rm OK}$, the display shows the flashing writing F $_{\Gamma}$ EE .
- Press the button again and hold for 5 seconds (releasing it before, the procedure is terminated): The display shows the fixed writing FrEE followed by dEF 1, before returning to the list of parameters;
- 6. Access to programming is unlocked.



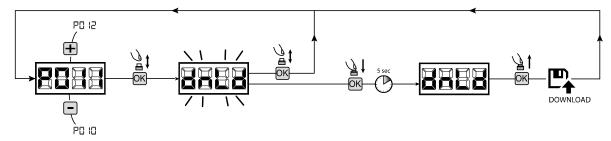
4 Downloading/uploading data memory

4.1 Downloading data to an external memory unit (DOWNLOAD)

- 1. Scroll down the parameters with + and keys until you visualize P011;
- 2. Press the OK key, the display visualizes the word "dnld" flashing;
- 3. Press the ox again and continue pressing it for 5 sec (if you release it before this period, the procedure is stopped);
- 4. Release the OK key as soon as the word "dnld" stops flashing;
 All the control panel configurations (TYPE, parameters, remotes, operators stroke, etc..) are saved in the external memory unit;

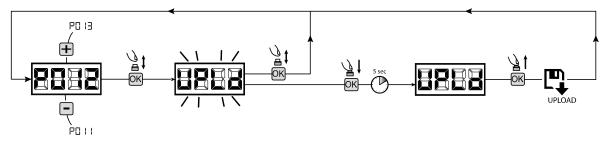
Warning: If there is any data in the external memory, during the memory download they will be overwritten.

5. At the end of the operation display returns to P011.



4.2 Uploading data from an external memory unit (UPLOAD)

- 1. Scroll down the parameters with + and keys until you visualize P012;
- 2. Press the OK key, the display visualizes the word "LPL d" flashing;
- 3. Press the ox again and continue pressing for 5 sec (if you release it before this period, the procedure is stopped);
- 4. Release the okey as soon as the word "내무니러" stops flashing;
 All the control panel configurations (TYPE, parameters, remotes, operators stroke, etc..) contained in the external memory unit are uploaded in the connected control panel;
- 5. At the end of the operation display returns to P012.

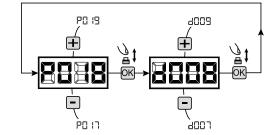


WARNING If you are not connected to any external storage units or if the connecting cable is disconnected during the data transfer operation, the display will visualize [-], then the control unit is entirely reset and the display shows the word "TYPE" flashing. Refer to the instruction of the external memory card to restore the operation of the control panel.

5 Inputs configuration

Where the installation requires different commands and / or additional to the standard ones described by plan, you can configure each input for the operation desired (eg START, PHOTOS, STOP, etc ...).

- 1. Scroll down the parameters with the + and to see that corresponding to the desired one:
 - P017=for INPUT 1;
 - P018=for INPUT 2;
 - P019=for INPUT 3;
 - P020=for INPUT 4;
 - P021=for INPUT 5;
 - P022=for INPUT 6;
- Confirm by pressing on the Key to get access to the parameter (eg. P018):
- Scroll down with the and , keys to set the value corresponding to the desired operation (refer to table "Input Configuration parameters" on page EN-20);
- 4. Confirm by pressing on the Key (display shows again P018).
- 5. Execute the new connection to the input just reconfigured.



6 Programming complete

WARNING At the end of the programming procedure, use the buttons + and - until the appearance of the symbol "----", the operator is now ready again for new manoeuvres.

8 MESSAGES SHOWN ON THE DISPLAY

WORKING STATUS MESSAGES								
Mess.		Description						
	Gate is closed							
1 1	Gate is opened							
OPEn	Opening under way							
CL05	Closing under way							
SEEP	While in step-by-step mode, the control board awaits fur	rther instructions after a start command						
SEOP	Stop input intervened or an obstacle is detected with lin							
L L	Board in BOOT-MODE: Indicates that the firmware is co NET-NODE is corrected to the correct port.	rrupted or updating. To restore the firmware, use the DEAinstaller APP and make sure board memory (settings and radio commands) are lost. Make sure you have backed						
rESP	of inversions allowed without ever getting to the closin crushing device.	turned on after a power failure, or the gate has exceeded the maximum number (80) g stroke, or the maximum number (15) of consecutive operations allowed of the anti- nd given the gate will start moving at slow speed, until it reaches end of travel.						
		ERROR MESSAGES						
Mess.	Description	Possible solutions						
ErrP	Error position: The reset position procedure is not successful. The control panel is awaiting commands.	 - Make sure there are no specific frictions and / or obstacles during the run; - Give a start pulse to initiate a position reset procedure; - Verify that the operation is completed successfully, manually helping the run, if necessary; - Adjust power and speed settings if necessary. 						
BLOC UR-E	Board programming attempted when a NET-NODE device is connected.	Turn off power, disconnect the NET-NODE from the communication port and turn back on;						
Err3	External photocells and/or safety devices are activated or out of order.	- Make sure that all safety devices and/or photocells installed are working properly.						
Erry	Possible fault/overheating in the control unit's power circuit.	Turn off power for several minutes and turn back on. Give a start command: if the message is repeated, replace the control unit.						
ErrS	Time-out operators run: The engine/s exceeded the maximum operating time (4min) without ever stopping.	- Give a start pulse to start the position reset procedure; - Ensure that this operation is successful.						
ErrB	Time-out obstacle detection: With anti-crushing sensor disabled, was still detected the presence of an obstacle that prevents movement of the leaf for a period of 10 seconds more.	 - Make sure there are no specific frictions and / or obstacles during the run; - Give a start pulse to initiate a position reset procedure; - Verify that the operation is completed successfully. 						
Errl	Operators mouvement not detected.	- Make sure that operators and encoders connections are well done. - Check that jumpers J5 and J9 are well positioned as shown on the electric wiring. - If this error appears again, replace the control panel.						
Err9	No/interrupted communication with remote memory board (also NET-EXP or NET-NODE).	- Check that the connecting cable of the external memory card is connected properly If you are performing a data transfer operation (DOWNLOAD / UPLOAD), make sure that it is not interrupted (eg by unplugging the card before the end of the operation). Please note: the interruption of an UPLOAD, also involves a total RESET of the control unit.						
Er !!	Possible fault/overheating in the control unit's power circuit.	Turn off power for several minutes and turn back on. Give a start command: if the message is repeated, replace the control unit.						
Er (2	Check the wiring of the encoder and the motor. Shut the power supply off and on agai Give a start command: if the message is repeated, perform the following checks. - Enter P003 and move the door using the + and - buttons If the door moves at maximum speed and the display shows Err7, replace the motor encoder card If the motor still remains stationary, replace the control unit.							
Er 15	Sensitive regulation parameters were edited via DEAinstaller APP without running motor stroke learning at the end of the operation.	Run motor stroke learning (P003) first to be able to run any other operation.						
E-81	NET-NODE connected to the incorrect communication port.	Connect NET-NODE to the correct port according to that indicated in the control unit diagram.						

9 INSTALLATION TEST

The testing operation is essential in order to verify the correct installation of the system. **DEA** System wants to summarize the proper testing of all the automation in 4 easy steps:

- Make sure that you comply strictly as described in paragraph 2 "WARNINGS SUMMARY";
- Test the opening and closing making sure that the movement of the leaf match as expected. We suggest in this regard to perform various tests to assess the smoothness of the gate and defects in assembly or adjustment;
- Ensure that all safety devices connected work properly;
- Perform the measurement of impact forces in accordance with the standard 12445 to find the setting that ensures compliance with the limits set by the standard EN12453.

10 PRODUCT DISPOSAL



WARNING In compliance with EU Directive 2012/19/EU on waste electrical and electronic equipment (WEEE), this electrical product should not be treated as municipal mixed waste. Please dispose of the product and bring it to the collection for an appropriate local municipal recycling.

	PAR.	PROCEDURE
	P001	Positioning of operator 1
	P002	Positioning of operator 2
	P003	Memorization of the motors' stroke
	P004	Deletion of transmitters
PRO	P005	Transmitters memorizing
GRA	P005	Search and deletion of a transmitter
PROGRAMMING	P007	Restoring the operating parameters
NG P	P008	Lock access to programming
PROCEDURES	P009	How to learn connected DE@NET devices (unused at the moment)
EDU	P010	Restoring the "I/O" configurations (input/output)
RES	POH	Downloading data on the external memory unit
	P012	Uploading data from an external memory unit
	P013	Visualisation of inputs and operations-counter status
	PBIH	Unused parameter
	P015	Unused parameter

	PAR.	SETTABLE VALUES
	P016	INPUT_3 selectioning input type
Į Į	רוםפ	INPUT_1 operating selection
UTS CONI	PO18	INPUT_2 operating selection
FIGURATIO	P019	INPUT_3 operating selection
INPUTS CONFIGURATION PARAMETERS	P020	INPUT_4 operating selection
ETERS	P021	INPUT_5 operating selection
	P022	INPUT_6 operating selection

SETTABLE VALUES						

	CETTARLE VALUES	DEFAULT VALUES (for different standards of installation)				
	SETTABLE VALUES		TYPE 00	TYPE 01	TYPE 02	TYPE 03
	000: IN3 type=free contact001: IN3 type=constant resistance 8K2		000	000	000	000
	000: NONE (unused parameter) 001: START (start) 002: PED. (pedestrian) 003: OPEN (separated open) 004: CLOSE (separated close) 005: OPEN_PM (man present open) 006: CLOSE_PM (man present close) 007: ELOCK-IN (electric-lock activation. See P062) 008: PHOTO 1 (photocell 1) 009: PHOTO 2 (photocell 2) 010: SAFETY 1 (safety rib 1) 011: STOP (lock) / SAS INPUT (with NET_EXP only) 012: FCA1 (opening limit switches Mot1) 013: FCA2 (opening limit switches Mot1) 014: FCC1 (closing limit switches Mot1) 015: FCC2 (closing limit switches Mot2) 016: SAFETY 2 (safety rib 2) 017: OPEN_INT (with NET_EXP only)	IN1	001	001	001	001
		IN2	002	500	008	008
		IN3	010	010	010	000
		IN4	008	008	011	000
		IN5	012	009	000	000
	 • 018: OPEN_EXT (with NET_EXP only) • 019: AUX_IN (with NET_EXP only) • 020: SAFETY INHIBITION (SAFETY inhibition) 	IN6	014	011	000	000

_		
=	P023	Allocation of CHANNEL 1 of remotes
IPUTS (P024	Allocation of CHANNEL 2 of remotes
INPUTS CONFIGURATION PARAMETERS	P025	Allocation of CHANNEL 3 of remotes
URATIO	P026	Allocation of CHANNEL 4 of remotes
Ž	P027	Selection of type of remotes
OF CONFIGURA	P028	Selection type of operators
OPERATORS CONFIGURATION PARAMETERS	P029	Selected work with or without encoders. CAUTION: Remember to correctly set the jumpers J5 and J9 (see table 1) WARNING: J5, J9 and P029 must be set correctly before performing the procedure for programming
RS	P030	Selectioning operators number
	P031	Operators speed adjustment during slow-down while opening
	P032	Operators speed adjustment during the stroke while opening
	P033	Operators speed adjustment during the stroke while closing
İ	P034	Operators speed adjustment during slow-down while closing
	P035	Slow down duration adjustment while opening
	P036	Slow down duration adjustment while closing
	P037	Operator 1 force adjustment while opening (if = 100% obstacle detection deactivated)
원	P038	Operator n.1 force adjustment while closing (if = 100% obstacle detection deactivated)
OPERATING PARAMETERS	P039	TYPE 00 - 01 - 03 ONLY: Operator n.2 force adjustment while opening (if = 100% obstacle detection deactivated)
) PARA		TYPE 02 ONLY: Secondary force adjustment in closing: adjusts the motor's force during the last part of the closing movement defined by P058
MET	POYO	Operator n.2 force adjustment while closing (if = 100% obstacle detection deactivated)
ERS	POHI	Automatic closing times adjustment (if = 0 automatic closing deactivated)
	P042	Pedestrian automatic closing time adjustment (se = 0 pedestrian automatic closing deactivated)
	P043	Pedestrian stroke duration adjustment
	PB44	Pre-flashing time adjustment
	POYS	Adjustment of phase displacement time while opening
	P046	Adjustment of phase displacement time while closing
	POYT	Collectivity function: if it is activated it deactivates both opening and closing inputs for the whole duration of automatic opening and closing
	•	

			TYPE 00	TYPE 01	TYPE 02	TYPE 03
000: NONE (unused paramet 001: START (start)		CH1	001	001	001	001
002: PEDESTRIAN (pedestrial003: OPEN (separated open)004: CLOSED (separated clos		CH2	000	000	000	000
005: Unused006: Unused007: ELOCK-IN (electric-lock a	activation. See P062)	СНЗ	000	000	000	000
• 008: AUX_IN (with NET_EXP of 009: STOP		СН4	000	000	000	000
000: HCS fix-code 001: HCS rolling-code	002: Dip-switch 003: DART		000	000	000	000
 000: GEKO 001: LOOK - MAC - STING 002: GHOST 100/200 003: 500 - 502 - 902 - PASS - 550 ANGOLO 004: 502MT/24 - 902R/24 - STOP 			005	000	003	003
000: motors with encoder001: engines without encoder			001	001	000	000
001: one operator 002: two operators			001	002	001	001
15%tot100%tot			040	050	050	030
15%tot100%tot			100	100	100	100
15%tot100%tot			100	100	100	100
15%tot100%tot			040	050	050	030
0%tot80%to			025	020	020	030
0%tot80%tot			025	020	020	030
15%tot100%t	ot		050	050	050	099
15%tot100%t	ot		050	050	050	099
15%tot100%t			050	050	000	099
15%tot100%t	6tot100%tot		/	050	/	099
0sec255se	ec		000	000	000	000
0sec255sec			000	000	000	000
5%tot100%tot			030	035	035	100
0sec10sec			000	000	000	000
0sec30sec			/	001	/	/
0sec30sec			/	003	/	/
000: disabled001: activated only upon ope002: activated on automatic	_		000	000	000	000

	P048	Ram blow function: if=0 "Ram blow" function deactivated; if=1 it pushes the motors closed for one second before each opening movement, so as to ease the releasing of any electric lock; if>1 it execute a periodic pushing stroke so as to maintain the wings under pressure on the closing strokes. If closing limit switches are installed, it performs this function only if they are not activated, i.g. when there's a pressure decrease on the stroke.					
	P049	"Reversal" mode selection (during the manoeuvre a command impulse reverse the mouvement) or "step by step" (during the manoeuvre a command impulse stops the mouvement). A next impulse restart the operator to the opposite direction.					
	P050	PHOTO 1	PHOTO input functioning: If=0: photocell enabled while closing and starting when the gate is stopped; if=1 photocells are always enabled; if=2 photocells are enabled while closing only. When enabled, its activation provokes: the inversion (while closing), the stop (while opening) and prevent the starting (when gate is closed).				
	P051	PHOTO 2	If = 3-4-5, the operation is identical to values 0-1-2 but with the" close immediately "function enabled: in any case, when opening and / or pausing time, removing a any obstacle the gate will end the opening maneuver before closing it automatically after a 2 second fixed delay.				
	P052	Operation mode selection of the warning light output: If = 0 "warning light" (output always ON when the gate is open, OFF after a closing operation), If = 1 "flashing warning light" (slow intermittent output during opening and fast while closing, always ON at gate opened, always OFF at the end of a closing operation only), If> 1 "courtesy light" (output ON during each movement, OFF when the motor stops, after the setting delay)					
OPERATING PARAMETERS	P053	Searches for end of stroke while opening too: when activated, operators stop only at their arrival et the end of stroke, also while opening. Warning: During the emergency operation (rESP), the motor executes the first maneuver while opening. In addition, if any limit switches, the parameter is forced to 1.					
PARAMETER	P054	"soft start" function: motors accelerate gradually until they reach the set speed, avoiding sudden departures ONLY TYPE 02: If=3 the opening slow space (P035) also becomes the space within which the port moves at slow speed (P031) and close start.					
Š	P055	Adjust the inversion on obstacle period (detected by internal anti-crushing sensor or by the safety input when activated): If = 0 it makes a complete inversion, if> 0 indicates the duration (in seconds) of the run, after inversion resulting from detection of an obstacle during the opening.					
	P056	Adjust the inversion on obstacle period (detected by internal anti-crushing sensor or by the safety input when activated): If = 0 it makes a complete inversion, if> 0 indicates the duration (in seconds) of the run, after inversion resulting from detection of an obstacle during the closing.					
	P057	Facilitation manual release: If≠0, after ending the closing or opening maneuver, the engine reverses for a brief time to release the pressure on it, and thus facilitate the manual release. The set value shows the length of the inversion. If=0 function disabled					
	P058	TYPE 00 - 01 - 03 ONLY: Adjustment of the opening stroke margin: it adjusts the duration of the last part of the stroke during which an obstacle is interpreted as a stroke, blocking the motor without performing the inversion. For motors with encoders, the set value indicates the number of revolutions of the rotor; while for motors without encoder, the value is expressed in% of the maximum stroke. Warning: for motors without encoder, if P035 (duration slow-down while opening) is >10%, it forces the stroke detection margin so that it's the same than the slow-down.					
		of the closir	ILY: Duration adjustment for the secondary force in closing: adjusts the duration of the last part ng movement, in which the force is managed separately with PO39. The value is expressed in evolutions of the rotor.				

000	000	000	000
	001	חחו	
		001	001
002	002	002	500
000	001	002	002
000	000	060	000
/	000	001	001
001	001	001	001
003	003	003	003
003	003	003	003
000	001	003	002
012	025	000	020
	000	000 001 000 000 / 000 001 001 003 003 003	OOO

PORTAINED TYPE 00 - 0.1 - 0.3 ONLY: Adjustment of the closing stroke margin: it adjusts the duration of the last part of the stroke during which an obstacle is interpreted as a stroke, blocking the motor without performing the inversion. For motors with encoders, the set value indicates the number of revolutions of the rotor, while for motors without encoder, the value is expressed in% of the maximum stroke. TYPE 02 ONLY: Adjustment of the stop-margin in closing: adjusts the duration of the last part of the closing movement, in which an obstacle is seen as stop, causing the motor to stop without reversal on the obstacle. The value is expressed in number of revolutions of the rotor. TYPE 02 ONLY: Adjustment of the stop-margin in closing: adjusts the duration of the last part of the closing movement, in which an obstacle is seen as stop, causing the motor to stop without reversal on the obstacle. The value is expressed in number of revolutions of the rotor. TYPE 02 ONLY: Adjustment of the stop during adjustment of the stop of the s	_							
TYPE 00 -01-03 ONLY: Operators force adjustment at stroke arrival - If=0, setting off (the force value on the stroke is calculated automatically) - If=0 (operators with encoder) it indicates the force value (expressed in% of the max value) set in the last length. TYPE 02 ONLY: Force adjustment in the stop margin in closing, its duration is set through P059. "Energy saving" mode: If=1 after 10sec of inactivity, the control panel turns the 24V outputs and the display off that will be turned on at first command received (use recommended battery-powered and / or solar panel). Warning: when "Energy saving" is enabled, SAS function is not available. Warning: when "Energy saving" is enabled, SAS function is not available. Warning: when "Energy saving" is enabled, only the stabilized output 24V_ST must be used to power accessories. Electric-lock output operating: If=0 "boost" output for electric-lock art.110 power supply, If=1 24V output controlled by the ELOCK_IN input as pulsed mode.If=2 24V output controlled by the ELOCK_IN input as subsed mode.If=2 24V output controlled by the ELOCK_IN input as pulsed mode.If=2 24V output controlled by the ELOCK_IN input as pulsed mode.If=2 24V output controlled by the ELOCK_IN input as pulsed mode.If=2 24V output controlled by the ELOCK_IN input as subsequence in the seconds). Warning: To adjust the activation/deactivation times in the 000 004 005 modes, use parameter P064. Run direction inversion: If=1 automatically reverses the outputs open/close of the operators, avoiding having to manual change the wiring when installing the operator in an inverted position. Warning: Changing this parameter you need to change the parameters for the opening and closing limit switches. Electric lock duration adjustment If P062-005, adjust the deactivation time of the LOCK output; If P062-000, adjust the deactivation time of the LOCK output; If P062-000 (004, adjust the activation time of the LOCK output; If P062-005, adjust the deactivation time of the LOCK output; If P062-000		P059	the stroke during which an obstacle is interpreted as a stroke, blocking the motor without performing the inversion. For motors with encoders, the set value indicates the number of revolutions of the rotor; while for motors					
PDSD Type 20 MLY: Force adjustment in the stop margin in closing, its duration is set through P059. "Energy saving" mode: if=1 after 10sec of inactivity, the control panel turns the 24V outputs and the display off that will be turned on at first command received (use recommended battery-powered and / or solar panel). Warning: when "Energy saving" is enabled, SAS function is not available. Warning: when "Energy saving" is enabled, only the stabilized output 24V_ST must be used to power accessories. Electric-lock output operating: If=0 "boost" output for electric-lock art.110 power supply, If=1 24V output controlled by the ELOCK_IN input as pulsed mode.If=2 24V output controlled by the ELOCK_IN input as step-by-step mode, If=3 electro-brake output for not self-locking operators, If=4 24V output for power supply wil an external relay, If=5 24V output role electro-angets power supply brainers, If>5 24V output controlled by the ELOCK_IN input as temporized mode (the set value indicates the switch-off delay in seconds). Warning: To adjust the activation/deactivation times in the 000 004 005 modes, use parameter P064. Run direction inversion: If=1 automatically reverses the outputs open/close of the operators, avoiding having to manual change the wiring when installing the operator in an inverted position. Warning: Changing this parameter you need to change the parameters for the opening and closing limit switches. Electric lock duration adjustment If P062=0001004, adjust the activation time of the LOCK output; If P062=0001004, adjust the activation time of the LOCK output; If P062=0001004, adjust the activation time of the LOCK output; If P062=0001004, adjust the activation time of the LOCK output; If P063=005, adjust the deactivation time of the LOCK output; If P065=005, operations number = 50x500 = 25000 operations Warning: Before you set a new value of the counter-manoeuvres maintenance, the same must be reset by setting P065=0 and only latter P065 = "new value": Operation of the SFT input: If			movement, in which an obstacle is seen as a stop, causing the motor to stop without reversal on the obstacle.					
PRAYING PRAYING PROSI "Energy saving" mode: If=1 after 10sec of inactivity, the control panel turns the 24V outputs and the display off that will be turned on at first command received (use recommended battery-powered and / or solar panel). Warning: when "Energy saving" is enabled, SAS function is not available. Warning: when "Energy saving" is enabled, only the stabilized output 24V_ST must be used to power accessories. Electric-lock output operating: If=0 "boost" output for electric-lock art.110 power supply, If=1 24V output controlled by the ELOCK_IN input as supsed mode.If=2 24V output controlled by the ELOCK_IN input as step-by-step mode, If=3 electro-brake output for not self-locking operators, If=4 24V output for electric-lock power supply is an external relay, If=5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets supply is an external relay, If=5 24V output for electro-magnets supply is a set value indicates the switch-off delay in supply is a set value indicate the switch-off delay in supply is a set power supply in a supply is a set power supply of a supply is a supply in a supply in a su		P060	stroke is calculated automatically) - If≠0 (operators with encoder) it indicates the force value (expressed in%					
PRANUTIPERS Operating: Marning: when "Energy saving" is enabled, SAS function is not available. Warning: when "Energy saving" is enabled, SAS function is not available. Warning: when "Energy saving" is enabled, only the stabilized output 24V_ST must be used to power accessories. Electric-lock output operating: If=0 "boost" output for electric-lock art.110 power supply, If=1 24V output controlled by the ELOCK_IN input as pulsed mode.If=2 24V output controlled by the ELOCK_IN input as step-by-step mode, If=3 electro-brake output for not self-locking operators, If=4 24V output for electric-lock power supply via an external relay, If=5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-lock power supply for barriers, If>5 24V output for electro-magnets power supply for barriers, If>5 24V output for electro-lock duration adjust the activation times in the 000 004 005 modes, use parameter P064. PDBS			TYPE 02 ONLY: Force adjustment in the stop margin in closing, its duration is set through P059.					
Controlled by the ELOCK_IN input as pulsed mode.If=2 24V output controlled by the ELOCK_IN input as step-by-step mode, If=3 electro-brake output for not self-locking operators, If=4 24V output for electric-lock power supply via an external relay, If=5 24V output for electro-magnets power supply for barriers, If=5 24V output for electro-magnets power supply for barriers, If=5 24V output for electro-magnets power supply for barriers, If=5 24V output controlled by the ELOCK_IN input as temporized mode (the set value indicates the switch-off delay in seconds). Warning: To adjust the activation/deactivation times in the 000 004 005 modes, use parameter P064. Run direction inversion: If=1 automatically reverses the outputs open/close of the operators, avoiding having to manual change the wiring when installing the operator in an inverted position. Warning: Changing this parameter you need to change the parameters for the opening and closing limit switches. Electric lock duration adjustment if P062=000 004, adjust the activation time of the LOCK output; if P062=005, adjust the deactivation time of the LOCK output; if P062=005, adjust the deactivation time of the LOCK output; if P065=005, adjust the deactivation time of the LOCK output; if P065=005, operations unber of operations (x 500) to be made before the control panel executes a 4 second additional pre-flash to indicate the need of maintenance. ig.: If P065 = 050, operations number = 50x500 = 25000 operations Warning: Before you set a new value of the counter-manoeuvres maintenance, the same must be reset by setting P065= 0 and only later P065 = "new value". P051 SAFETY 1 SAFETY 1 SAFETY 1 Operation of the SFT input: If = 0 safety edge always enabled, if = 1 safety edge enabled only while closing, if = 2 safety edge enabled only while closing and before any movement, if = 3 safety edge enabled only while closing, if = 2 safety edge enabled only while opening, and before any movement, as for the obstacle detection with internal anti-crushing sensor,		P061	off that will be turned on at first command received (use recommended battery-powered and / or solar banel). Warning: when "Energy saving" is enabled, SAS function is not available. Warning: when "Energy saving" is enabled, only the stabilized output 24V_ST must be used to power					
Switches. Electric lock duration adjustment If P062=000 004, adjust the activation time of the LOCK output; If P062=005, adjust the deactivation time of the LOCK output; Maintenance Operations-counter: if = 0 reset the counter and disables the intervention request , if> 0 indicates the number of operations (x 500) to be made before the control panel executes a 4 second additional pre-flash to indicate the need of maintenance. i.g.: If P065 = 050, operations number = 50x500 = 25000 operations Warning: Before you set a new value of the counter-manoeuvres maintenance, the same must be reset by setting P065= 0 and only later P065 = "new value". P055 Selection of operating flashing light output: If=0 intermittent flashing light output; If=1 Fixed flashing light output (for flashing lights with intermittent interior circuits). Operation of the SFT input: if = 0 safety edge always enabled, if = 1 safety edge enabled only while closing and before any movement, if = 3 safety edge enabled only while closing and before any movement; as for the obstacle detection with internal anti-crushing sensor, also the activation of the inputs SFT1 and SFT2 causes the complete or partial reversal as set by P055 (duration of inversion on obstacles while opening, and P056 (duration of reversal on obstacle	OPERATING PARAMETERS	P062	controlled by the ELOCK_IN input as pulsed mode,If=2 24V output controlled by the ELOCK_IN input as step-by-step mode, If=3 electro-brake output for not self-locking operators, If=4 24V output for electric-lock power supply via an external relay, If=5 24V output for electro-magnets power supply for barriers, If>5 24V output controlled by the ELOCK_IN input as temporized mode (the set value indicates the switch-off delay in seconds).					
PGS4 If P062=000 004, adjust the activation time of the LOCK output; If P062=005, adjust the deactivation time of the LOCK output; Maintenance Operations-counter: if = 0 reset the counter and disables the intervention request, if> 0 indicates the number of operations (x 500) to be made before the control panel executes a 4 second additional pre-flash to indicate the need of maintenance. i.g.: If P065 = 050, operations number = 50x500 = 25000 operations Warning: Before you set a new value of the counter-manoeuvres maintenance, the same must be reset by setting P065 = 0 and only later P065 = "new value". PGS5 Selection of operating flashing light output: If=0 intermittent flashing light output; If=1 Fixed flashing light output (for flashing lights with intermittent interior circuits). Operation of the SFT input: if = 0 safety edge always enabled, if = 1 safety edge enabled only while closing, if = 2 safety edge enabled only while closing and before any movement, if = 3 safety edge enabled only while opening, if = 4 safety edge enabled only while opening and before any movement; as for the obstacle detection with internal anti-crushing sensor, also the activation of the inputs SFT1 and SFT2 causes the complete or partial reversal as set by P055 (duration of inversion on obstacles while opening, and P056 (duration of reversal on obstacle		P063	to manual change the wiring when installing the operator in an inverted position. Warning: Changing this parameter you need to change the parameters for the opening and closing limit					
O indicates the number of operations (x 500) to be made before the control panel executes a 4 second additional pre-flash to indicate the need of maintenance. i.g.: If P065 = 050, operations number = 50x500 = 25000 operations Warning: Before you set a new value of the counter-manoeuvres maintenance, the same must be reset by setting P065 = 0 and only later P065 = "new value". Selection of operating flashing light output: If=0 intermittent flashing light output; If=1 Fixed flashing light output (for flashing lights with intermittent interior circuits). PD51 SAFETY 1 Operation of the SFT input: if = 0 safety edge always enabled, if = 1 safety edge enabled only while closing, if = 2 safety edge enabled only while closing and before any movement, if = 3 safety edge enabled only while opening, if = 4 safety edge enabled only while opening and before any movement; as for the obstacle detection with internal anti-crushing sensor, also the activation of the inputs SFT1 and SFT2 causes the complete or partial reversal as set by P055 (duration of inversion on obstacles while opening, and P056 (duration of reversal on obstacle		P064	f P062=000 004, adjust the activation time of the LOCK output;					
If=1 Fixed flashing light output (for flashing lights with intermittent interior circuits). Operation of the SFT input: if = 0 safety edge always enabled, if = 1 safety edge enabled only while closing, if = 2 safety edge enabled only while closing and before any movement, if = 3 safety edge enabled only when opening, if = 4 safety edge enabled only while opening and before any movement; as for the obstacle detection with internal anti-crushing sensor, also the activation of the inputs SFT1 and SFT2 causes the complete or partial reversal as set by P055 (duration of inversion on obstacles while opening, and P056 (duration of reversal on obstacle)		P085	0 indicates the number of operations (x 500) to be made before the control panel executes a 4 second additional pre-flash to indicate the need of maintenance. i.g.: If P065 = 050, operations number = 50x500 = 25000 operations Warning: Before you set a new value of the counter-manoeuvres maintenance, the same must be reset by					
SAFETY 1 while closing, if = 2 safety edge enabled only while closing and before any movement, if = 3 safety edge enabled only when opening, if = 4 safety edge enabled only while opening and before any movement; as for the obstacle detection with internal anti-crushing sensor, also the activation of the inputs SFT1 and SFT2 causes the complete or partial reversal as set by P055 (duration of inversion on obstacles while opening, and P056 (duration of reversal on obstacle)		P066						
activation of the inputs SFT1 and SFT2 causes the complete or partial reversal as set by P055 SAFETY 2 (duration of inversion on obstacles while opening, and P056 (duration of reversal on obstacle		P067	SAFETY 1 while closing, if = 2 safety edge enabled only while closing and before any movement, if = 3 safety edge enabled only when opening, if = 4 safety edge enabled only while opening and					
		P068	activation of the inputs SFT1 and SFT2 causes the complete or partial reversal as set by P055 SAFETY 2 (duration of inversion on obstacles while opening, and P056 (duration of reversal on obstacle					

		TYPE 00	TYPE 01	TYPE 02	TYPE 03
	1255 (motors with encoder) 1%100% (motors without encoder)	01Z	025	025	020
	1255				
	0%tot100%tot	000	035	000	000
	0%tot100%tot				
	000: "Energy saving" not active001: "Energy saving" active	000	000	000	000
	 000: "Boost" output for electric-lock art.110 power supply 001: "24V === pulse output max 5W 002: "24V === step-by-step output max 5W 003: "Electro-brake output for not self-locking operators 004: "Output for electric-lock power supply via an external relay 005: "output for electro-magnets power supply for barriers >005: "24V === temporized output max 5W (6sec	000	000	000	005
	000: "Standard installation"001: "Inverted installation"	000	000	000	000
	0sec10sec	002	002	002	002
	000: "Request Maintenance disabled >000: "Number of operations (x 500) for required maintenance (1255)	000	000	000	000
	000: "intermittent flashing light output001: "fixed flashing light output	001	001	001	001
	 000: "safety edge always enabled 001: "safety edge enabled only while closing 002: "safety edge enabled only while closing and before any movement 003: "safety edge enabled only when opening 004: "safety edge enabled only while opening and before any movement 	000	000	000	000
		000	000	000	000

	P069	Delay on limit switch detection: the operation is stopped after 1,5 sec from limit switch detection. When during this delay a stop is detected, the operator is suddenly stopped			
	סרספ	Adjustment of acceleration durability Warning: if soft start is activated, the acceleration is deactivated indipendently from PO70 value.			
	ורםק	Safeties self-test: if = 0 24V === output with autotest disabled; if = 1 24V === output for safeties with self-test (it turn the output off and check the contact opening before each maneuver). Attention: In order to work in self-test mode, all devices must be connected to the stabilized output 24V_ST (1-2), and be wired and aligned before the motor stroke learning (P003).			
OPERATING	POTZ	Activation of SAS function (with NET_EXP only): SAS output is connected to an input STOP / SAS INPUT of a second control panel, causing the operation "trap man" (disabling the opening of the second door as long as the first is not completely closed). If this parameter is enabled after a reset, it performs an automatic RESP during which the SAS output is not activated. If limit switches are present and they are crushed after a reset, the RESP is not executed. Warning: if both doors are manually unlocked and moved from the closed position creates the interlock condition. You will then need to manually close at least one of the two doors.			
OPERATING PARAMETERS	POT3	Forced "Hold to Run": if this function is enabled, all inputs configured as OPEN and CLOSE change automatically also to OPEN UP and CLOSE UP (hold-to-run commands) if activated and kept active in case a safety contact (photocell and/or safety edge) is triggered. This function thus allows to control the automation even in case the safety devices are faulty. If the input is no longer maintained active, the automation returns to automatic operation. When using safety edges configured as SAFETY 1 or SAFETY 2, this function is not compatible with the values 001 and 003 of parameters P067 and P068. For security reasons, we recommend that you D0 NOT use this function in case there are any clocks/timers connected to the inputs configured as OPEN or CLOSE.			
	POTY	Unused parameter			
	P075	Unused parameter			
	P076	Unused parameter			
	ררםק	Unused parameter			
	P078 P099	Configuration parameters dedicated to the expansion card NET_EXP (for a detailed description of the parameters, refer to the instruction manual).			

		TYPE 00	TYPE 01	TYPE 02	TYPE 03
000: "limit switch delay d 001: "limit switch delay e		000	000	000	000
minimum durability, almost	tivated (it runs an acceleration of imperceptible) ation durability at 1,5 sec (X*6 ms)	200	200	500	200
000: "net power supply (s 001: "safeties self-test er		000	000	000	000
000: "SAS function" dead001: "SAS function" activ		000	000	000	000
	forces switch to Hold-to-run mode and OPEN/CLOSE commands are	000	000	000	000
		/	/	/	/
		/	/	/	/
		/	/	/	/
		/	/	/	/
		/	/	/	/



NOTES