NET230N





Quadro di comando programmabile

Istruzioni d'uso ed avvertenze

Programmable control board

Operating instructions and warnings

Armoire de commande programmable

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Programmierbare Steuereinheit

Bedienungsanleitung und Hinweise

ES

Cuadro de maniobra programable

Instrucciones de uso y advertencias

Quadro de comando programável PT

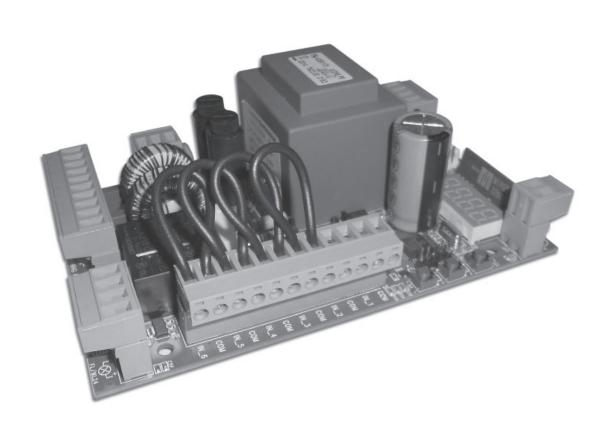
Instruções para utilização e advertências

Uniwersalna centrala sterująca

Instrukcja montażu i użytkowania

Программируемая панель управления

Инструкции и предупреждения



NET230N

Universal control panel for 230V 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 OPERATOR 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 AFFECTING 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

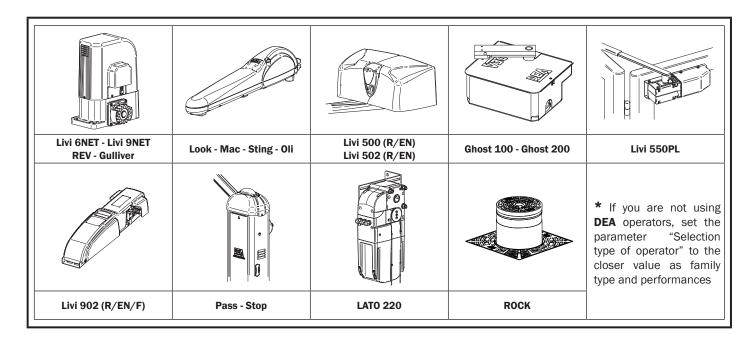
NET230N is a universal control panel for **DEA** System 1 or 2 230V operators automations with or without encoder.

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.

In the case of control units supplied in BOX, the degree of protection is IP 55, if installed correctly.

3 TECHNICAL DATA

	TYPE 00	TYPE 01	TYPE 02	TYPE 03	TYPE 04	TYPE 05		
	LIVI 6NET LIVI 9NET GULLIVER REV	GHOST 100 / 200 LOOK - MAC - STING - OLI LIVI 500P LIVI 502 (R/EN) 550PL	LIVI 902 (R/EN/F)	PASS STOP	LATO 220	ROCK		
Power supply (V)			230 V ~ ±10% (50/60 Hz)				
Fuse F2 (A)			5A					
Fuse F1 (A)			160mA	1				
Outputs 230V motors (maximum output current) (W)	2 x 500W (oppure 1 x 600W)							
Auxiliaries power supply output	2	4 V ~	(24V_AUX + 24V_ST = max 200mA)					
Safety devices power supply output	24	V ====						
"Warning" output			230 V ~ max 150W					
Electric lock output	max 1 art. 110 or 24V === output max 5W configurable							
230V Flashing light output			230 V ~ max	40W				
24V Flashing light output	24 V ==== m	nax 100mA (for led flas	hing light) art. LED	24AI or open gat	e warning light/co	urtesy light		
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							



4 CONFIGURATION OF THE CONTROL PANEL

The universal control unit NET230N can be used for the management of the following types (LYPE) of closures motorized by **DEA** System: swing and sliding gates, overhead doors and barriers.

In order to ensure maximum adaptability to each LUPE 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 LUPE 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 \mathbf{B}). If necessary the $\mathbf{L}\mathbf{H}\mathbf{P}\mathbf{E}$ of configured closing can be later adjusted following diagram \mathbf{G} .

FIRST CONTROL BOARD IGNITION

Configuration after the first ignition

- For the first control panel ignition, proceed as follows:
- 1. Apply power, the display shows in sequence the writing "F5-" and "LYPE" flashing;
- 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, "E∃PE", "-□□-" followed by the symbol of closed gate "----".

Following ignitions

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

Apply power, the display shows in sequence the writing "¬ES¬", "¬BPE", "¬BD¬" followed by the symbol of closed gate "----".

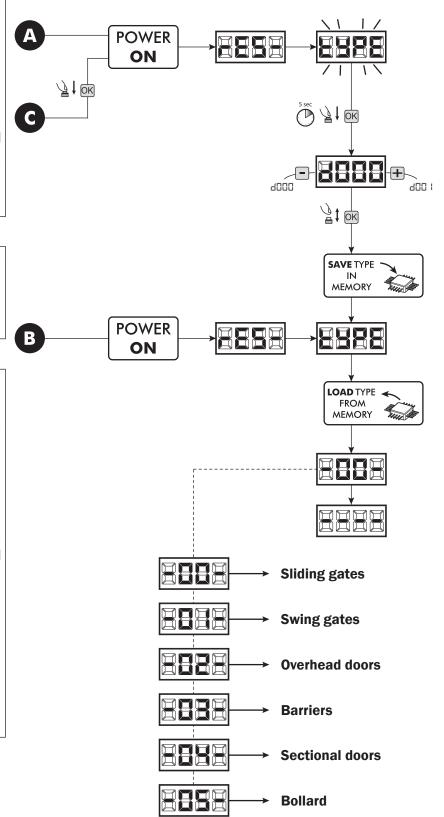
Modify the existing configuration

- 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;
- Press the ⋈ button and hold for 5 seconds until the display shows dull (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□□□) 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.

 \triangle 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.

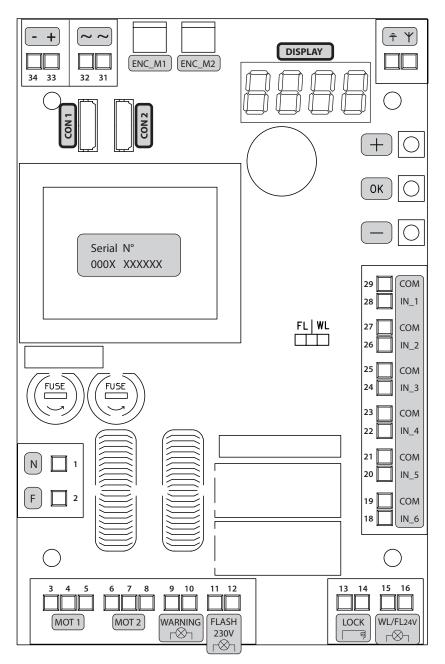
WARNING All wires must be striped and unsheathed in the immediate vicinity of terminals. Keep wires slightly longer to subsequently eliminate any excess.

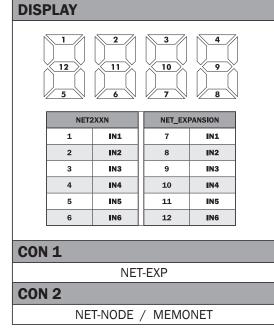
WARNING To connect the encoder to the control panel, use only a dedicated cable 3x0,22mm².

Table 1 "terminal board connections"

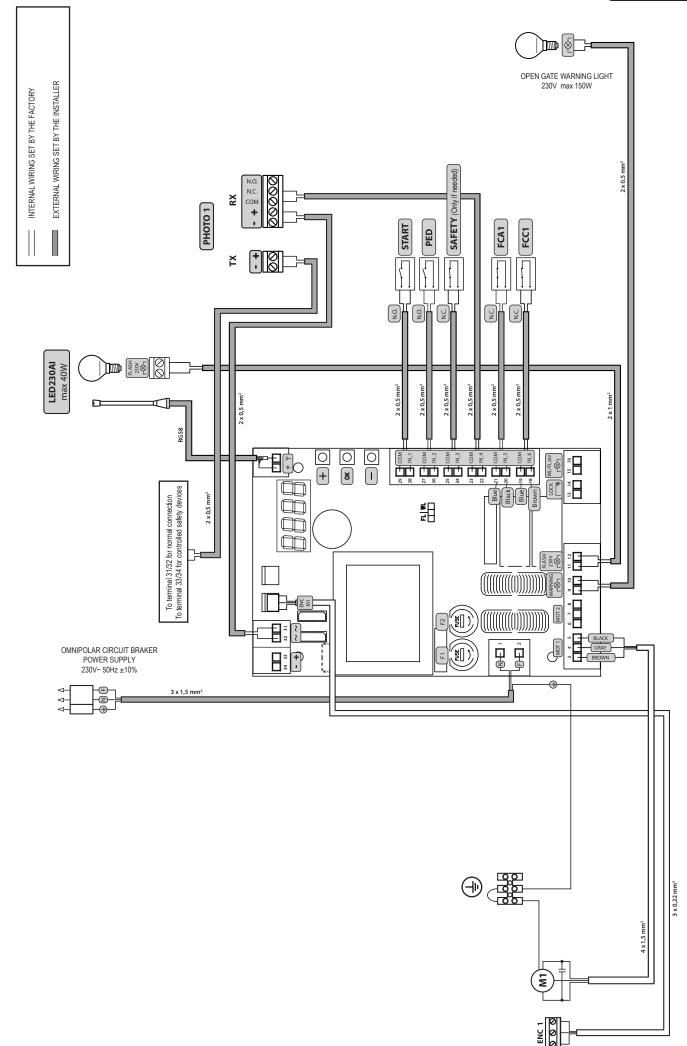
4.0		020.1/	1400/ /50 /60	11=\	ali i liana i d							
1-2			230 V ~ ±10% (50/60 Hz) power supply input Operator 1 output 230 V ~ max 500W (max 600W if only one motor)									
3-4-5	L'M1	Operato	or 1 output 230	V ~ max 500W	/ (max 600W if	only one motor)					
6-7-8	M ₂	Operato	perator 2 output 230 V ~ max 500W (if present)									
9-10	WARNING	230 V ~	30 V ~ max 150 W output for open gate fix warning light (if P052=0) or courtesy light (if P052>1)									
11-12	FLASH 230	Flashing	g light output 2	30 V ~ max 40	W							
		13 (-)			,	`	,, ·		(if P062=1), step ut for electric-lock			
13-14	ELETTR	14 (+)	power supply		ay (if P062=4),				arriers (if P062=5)			
15-16	WL/FL24	FL WL	a 24V (if set F	L) or as a Warn	ing output (if se	, , ,		a clone of the 23	30 Flash output as			
			TYPE 00	TYPE 01	TYPE 02	TYPE 03	TYPE 04	TYPE 05	ad- the			
					If unused, s	hort circuit			/ or t to			
18 - IN_6	l-s	0	014 (FCC 1)	□II(STOP)	OOO (NONE)	OOO (NONE)	014 (FCC 1)	DIY(FCC 1)	and , inpu			
19 - Com	- Input 6		N.C.	N.C.	N.O.	N.O.	N.C.	N.C.	If the installation requires different commands and / or additional to the standard, you can configure each input to the required rate. Refer to Chapter "Advanced Programming".			
20 - IN_5	- Input 5		012 (FCA 1)	009 (PHOTO 2)	OOO (NONE)	OOO (NONE)	012 (FCA 1)	012 (FCA 1)	nma ure e ing ".			
21 - Com			N.C.	N.C.	N.O.	N.O.	N.C.	N.C.	t cor onfig te. pter			
22 - IN_4	- Inr	out 4	008 (PHOTO 1)	008 (PHOTO 1)	□II (STOP)	000 (NONE)	□II(STOP)	008 (PHOTO 1)	requires different comma andard, you can configure e required rate. Refer to Chapter "Advanced Programming"			
23 - Com	- 1111	Jul 4	N.C.	N.C.	N.C.	N.O.	N.C.	N.C.	diffication of the control of the co			
24 - IN_3	– Inr	out 3	□I□ (SAFETY)	□I□ (SAFETY)	□I□ (SAFETY)	000 (NONE)	000 (NONE)	□I□ (SAFETY)	uires Ird, y rei Refo			
25 - Com		out 5	N.C.	N.C.	N.C.	N.O.	N.O.	N.C.	anda "Ad			
26 - IN_2	– Inr	out 2	002 (PED.)	002 (PED.)	□□8 (PHOTO 1)	□□8 (PHOTO 1)	□□8 (PHOTO 1)	□□Ч(CLOSE)	atior ne st			
27 - Com	,	/ut 2	N.O.	N.O.	N.C.	N.C.	N.C.	N.O.	istall to th			
28 - IN_1	– Inr	ut 1	□□I(START)	□□I (START)	□□I (START)	□□I (START)	□□I(START)	003 (OPEN)	he ir			
29 - Com	- Input 1		N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	oliti			
-	Ψ	Aerial s	erial signal input									
-	Ţ	Ground	Ground aerial input									
31-32	+24VAUX	24 V ~ I	oower supply or	utput for auxilia	ry devices				(AUX + ST)			
33-34	+24V_ST	33 (+) 34 (-)	(+) 24 V === power supply output for controlled safety devices max 200mA									

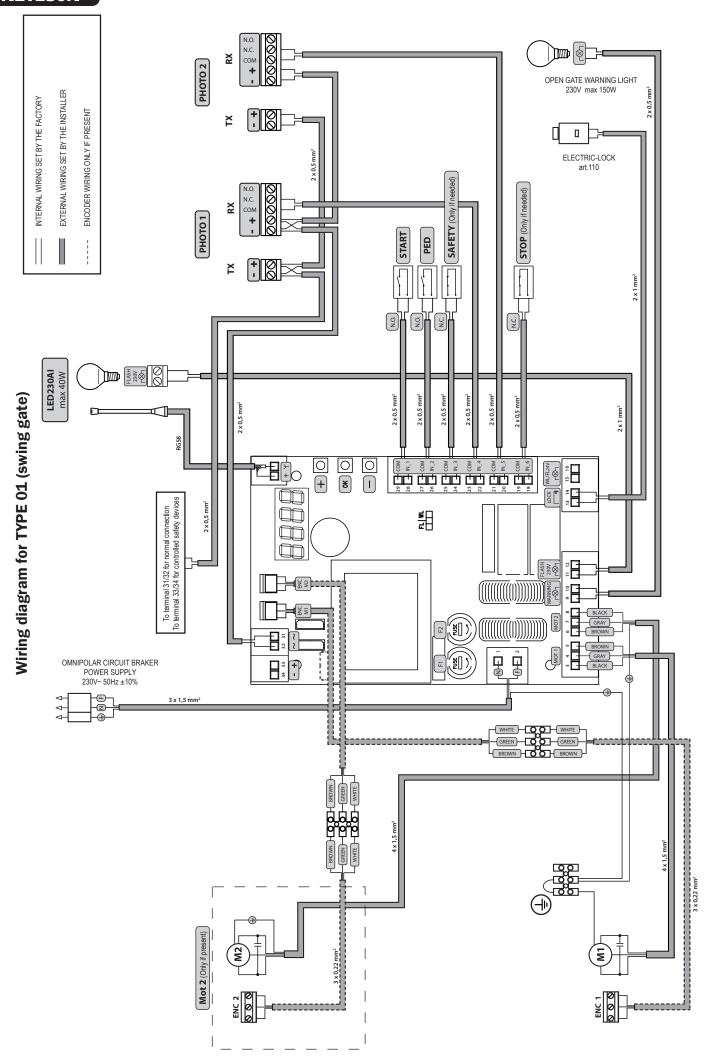
Basic scheme NET230N



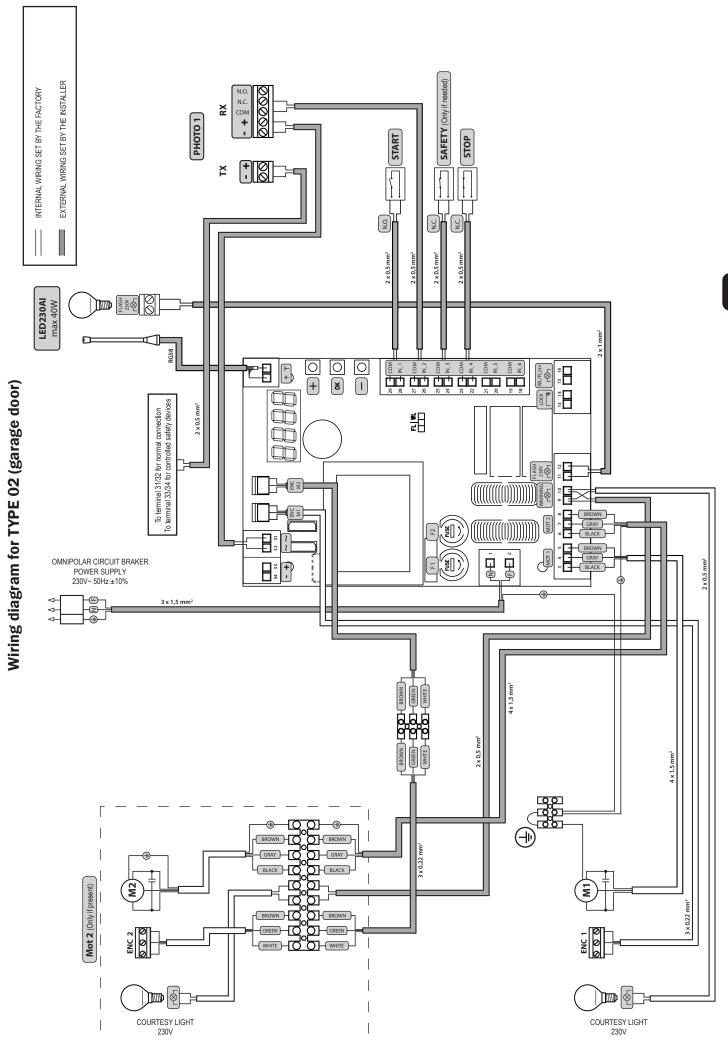


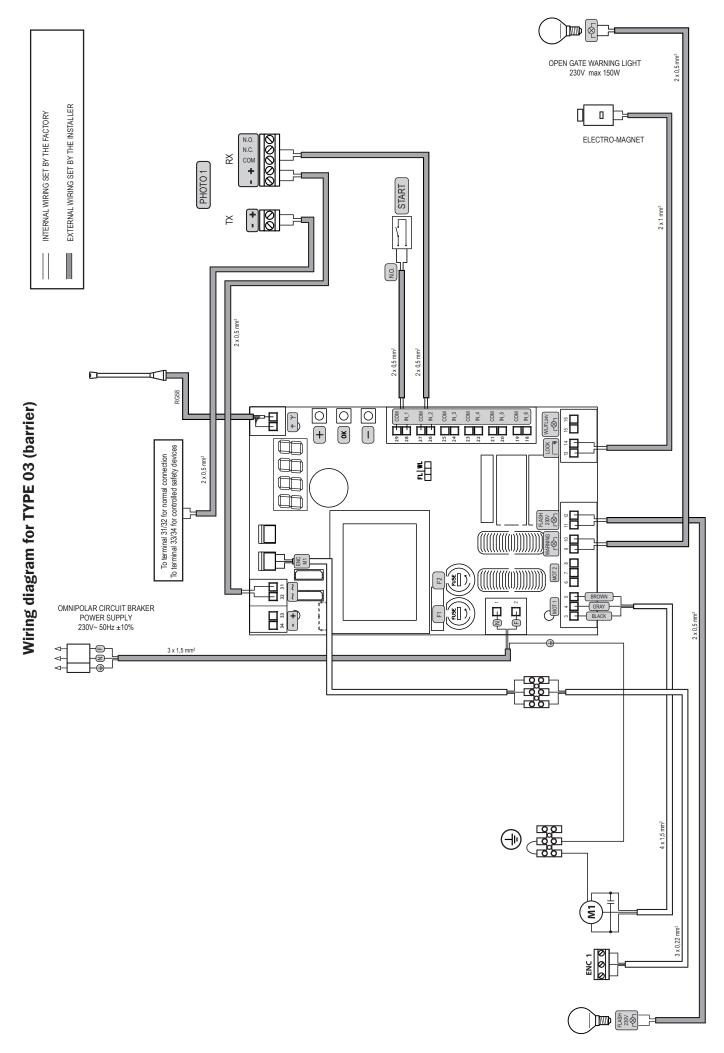


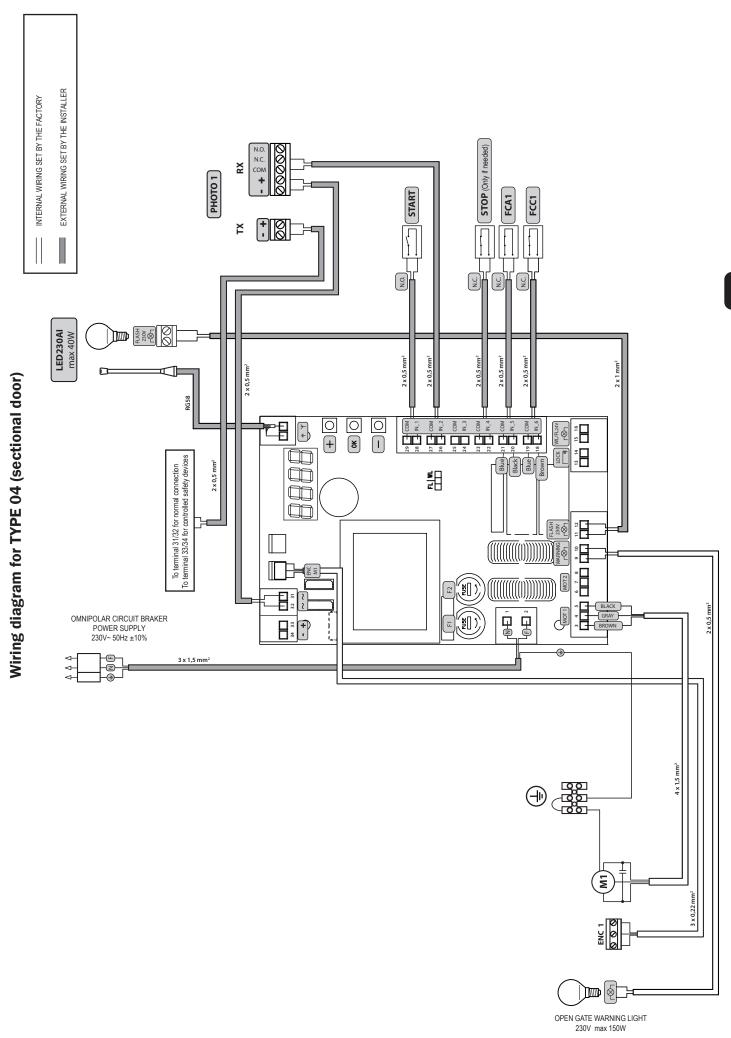


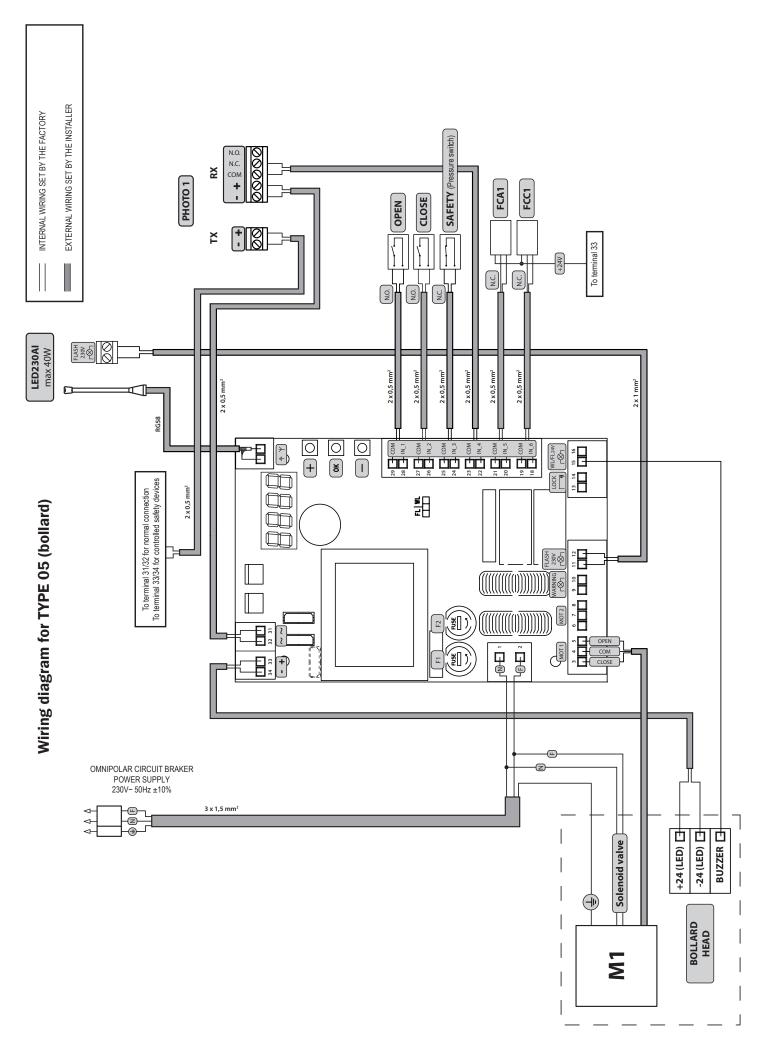










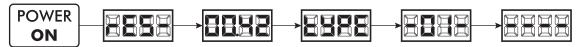


6 STANDARD PROGRAMMING

WARNING For reversible motors with electromagnetic brake, remember to set P062=3.

1 Power Supply

When turned on, "¬E5-", "QQ42" (or the current firmware version) "E4PE", "-Q 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-20.

2 Visualisation of inputs and operations-counter status

- 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 ☐ ☐ E multiplier.

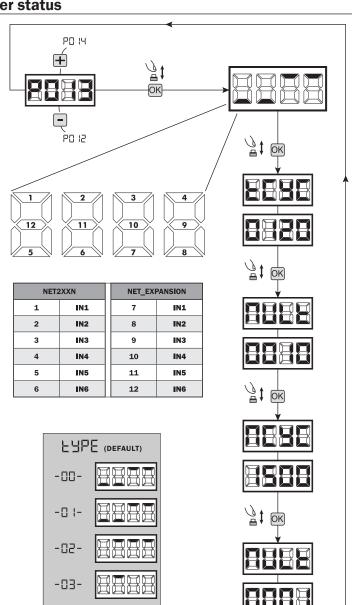
To calculate the number of completed operations, the two values must be multiplied.

- 6. Press the OK button again;
- 7. The "Total Maintenance Counter" \(\Pi\subset \Pi\subset \Pi\sub

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

I.e.: Π [Υ [= 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).



₹ (ok

-84-

-05-

3 Selection type of operators

! IMPORTANT!

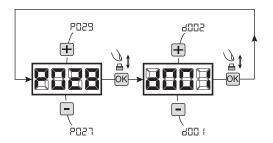
- Scroll down the parameters with and keys until you visualise P028:
- 2. Access the parameter by pressing the OK key;
- 3. Acting on 🛨 and 🖃 keys, set:

Type 00	Type 01	Type 02	Type 03	Type 04	Type 05
• 005 6NET	• 001 Look - Mac	• 003 Livi 902EN	• 003 Pass	• 000 Lato	• 005 Rock
• 006 9NET	- Sting	• 004 Livi 902R -	• 004 Stop		
• 007 Gulliver	• 002 Ghost	902R/EN/F			
- Rev	• 003 Livi 500				
	- 500MT - 502 -				
	502EN - 550PL				
	• 004 Livi 500P -				
	500MT/RF - 502R				
	- 502R/EN - 502L				
	• 005 Oli				

Warning: Selecting the OLI operators, all indicated values related to the operator force (P037 - P038 - P039 - P040), are automatically set to 100% without any possibility of change. For this type of operator, the obstacle detection is not active and the adjustment of the thrust force can be executed acting on the operator valves only.

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).

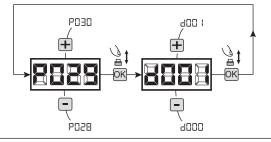
 Confirm your choice by pressing the OK key (display returns again to PO28).



4 Selection operating with or without encoder

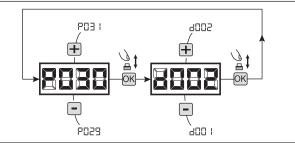
! IMPORTANT !

- 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 (Slow down is activated);
 - d002=for operators without encoder (Slow down not activated);
- Confirm your choice by pressing the OK key (display returns again to PO29).



5 Selection 1 or 2 operators functioning

- 1. Scroll down the parameters with + and keys until you visualise
- 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 PO30).

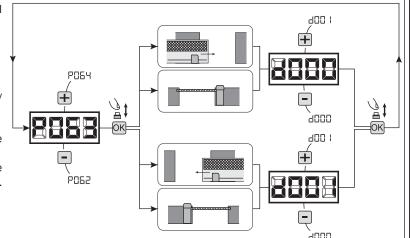


6 Selection of direction of motion (only Type 00 and Type 03)

- Scroll down the parameters with and keys until you visualise P063;
- 2. Access the parameter by pressing the $\overline{\mbox{OK}}$ key;
- 3. Acting on \blacksquare and \blacksquare keys, set:
 - d000=motor in standard position;
 - d001=motor in inverted position;
- Confirm your choice by pressing the OK 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.

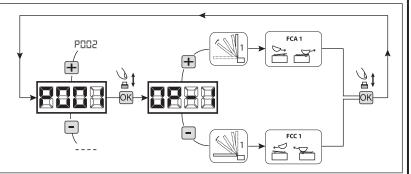


7 How to adjust the limit switche

- 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 P001)



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

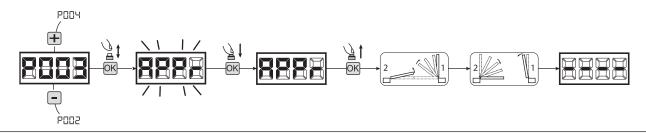
8 Motor stroke learning

- 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 OK key when "APPr" 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.

Warning: For operators without encoder, the stroke is not detected, so it MUST be simulated both while opening and while closing (for both operators) by pressing the key.

6. Once the procedure is ended, the display will show "----".



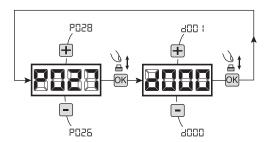
WARNING (only Type 01 and Type 03) Once you have executed the learning stroke, operate a complete cycle (opening/closing) and then check the manual release to make sure it is working properly. If it's to "hard" increase the value of P057 of 1 or more.

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.

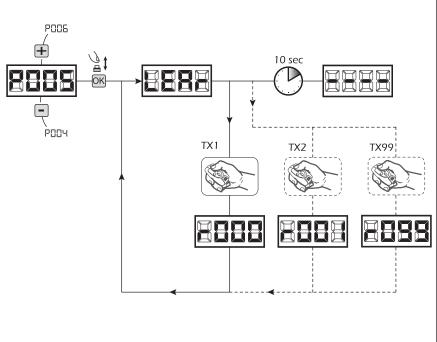


9.2 Learning

- 2. Confirm by pressing on the OK key;
- 3. 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 "LERr";
- 5. 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 OK key (display shows the parameters previously selected).

For the complete list of the "Operating Parameters" See the table on page. EN-24.

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-17.

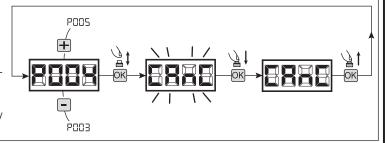
7 ADVANCED PROGRAMMING

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

1 Deletion of memorized transmitters

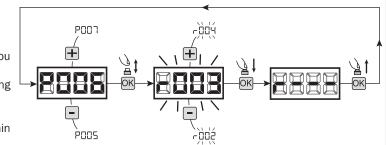
1.1 Deletion of all transmitters

- 1. Scroll down the parameters until you visualize P004;
- 2. Confirm by pressing on the OK key;
- When "LAnL" is flashing, press the OK key for a few seconds:
- 4. Release the OK key as soon as "ERoE" 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).



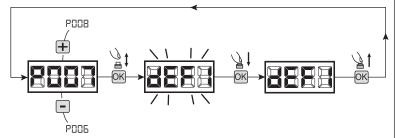
2 Restoring default parameters

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;
- 3. When "dEF i" is flashing, press the OK key for a few seconds;
- 4. Release the Key as soon as "dEF !" 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.

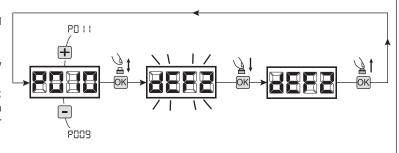
Warning: After you restore the default parameters, you must program the control panel again and adjust all operating parameters, in particular, remember to properly set the operator configuration parameters. (P028 - P029 - P030).

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.

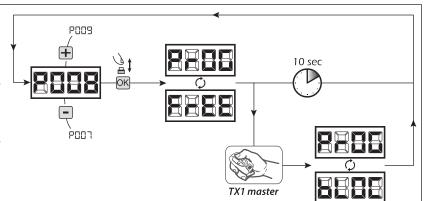


3 Locking-Unlocking access to programming

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

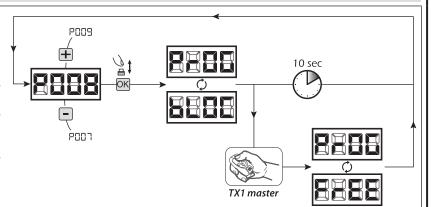
- Scroll through the parameters with the buttons
 and until the display shows P008;
- 2. Access the parameter by pressing the button OK;
- 3. The display shows alternately the writing Proc./Free to indicate that the control board is waiting for the transmission of the block code;
- 4. Within 10 seconds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



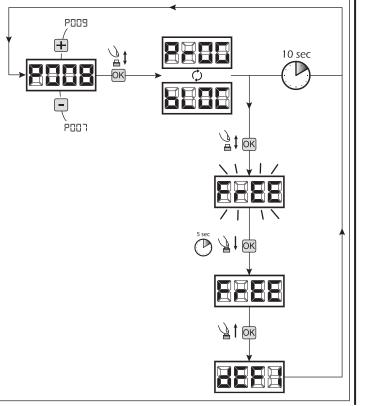
3.3 Unlocking access to programming and global reset

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.

- 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 $P_{\neg}\Box\Box/b\Box\Box$;
- 4. Press the button $\overline{\text{OK}}$, 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.



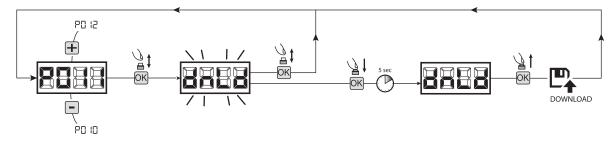
4 Downloading/uploading data memory

4.1 Downloading data to an external memory unit (DOWNLOAD)

- 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 or 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;

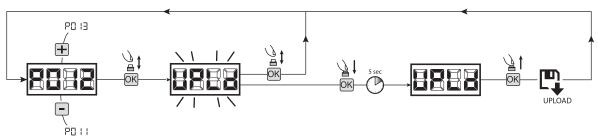
Warning: If there is any data in the external memory, during the memory download they will be overwritten.

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 "LPLd" 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 ok key as soon as the word "LIPL d" 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.

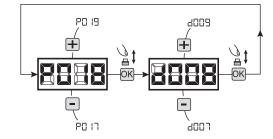


WARNING If you are not connected to any external storage units or if the connecting cable is disconnected during the data transfer operation, the display will visualize [_ _ _], then the control unit is entirely reset and the display shows the word "TYPE" flashing. Refer to the instruction of the external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

- 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 OK 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-22);
- 4. Confirm by pressing on the OK 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 (· ·								
OPEn									
CLOS									
SEEP	While in step-by-step mode, the control board awaits fur								
SEOP	Stop input intervened or an obstacle is detected with lin								
		rrupted or updating. To restore the firmware, use the DEAinstaller APP and make sure							
L L	up the memory to be restore data after the update.	board memory (settings and radio commands) are lost. Make sure you have backed							
rESP	versions allowed without ever getting to the closing strok device.	rned on after a power failure, or the gate has exceeded the maximum number (80) of in- ke, or the maximum number (15) of consecutive operations allowed of the anti- crushing and given the gate will start moving at slow speed, until it reaches end of travel.							
		ERROR MESSAGES							
Mess.	Description	Possible solutions							
1110001	Doscription	- Make sure there are no specific frictions and / or obstacles during the run;							
ЕггР	Error position: The reset position procedure is not successful. The control panel is awaiting commands.	- 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 UA-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.							
ЕггЧ	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;							
Errl	Operators mouvement not detected.	 - Make sure that operators and encoders connections are well done. - Check the setting of parameter P029 (Motor selection with or without encoder) and make sure it is correct. - 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 10 Er 11	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	Possible malfunction in the control unit's power circuit or in the encoder circuit.	Check the wiring of the encoder and the motor. Shut the power supply off and on again. 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's encoder card. - If the motor still remains stationary, replace the control unit.							
Er (5	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-8 (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
l _	P004	Deletion of transmitters
Ř	P005	Transmitters memorizing
PROGRAMMING	P006	Search and deletion of a transmitter
 	P007	Restoring the operating parameters
KG	P008	Lock access to programming
PROCEDURES	P009	How to learn connected DE@NET devices (unused at the moment)
ĕ	P010	Restoring the "I/O" configurations (input/output)
JRES	P011	Downloading data on the external memory unit
"	P012	Uploading data from an external memory unit
	P013	Visualisation of inputs and operations-counter status
	POIN	Unused parameter
	P015	Unused parameter

	PAR.	PARAMETER DESCRIPTION
	PO16	INPUT_3 selectioning input type
N P	POIT	INPUT_1 operating selection
UTS CONF	PO18	INPUT_2 operating selection
GURATIO	PO(9	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

				DEFAULT VALUES (for different standards of installation)					
	SETTABLE VALUES	TYPE 00	TYPE 01	TYPE 02	TYPE 03	TYPE 04	TYPE 05		
	000: IN3 type=free contact001: IN3 type=constant resistance 8K2		000	000	000	000	000	000	
	O00: NONE (unused parameter) O01: START (start) O02: PED. (pedestrian) O03: OPEN (separated open) O04: CLOSE (separated close) O05: OPEN_PM (man present open) O06: CLOSE_PM (man present close) O07: ELOCK-IN (electric-lock activation. See PO62) O08: PHOTO 1 (photocell 1) O09: PHOTO 2 (photocell 2) O10: SAFETY 1 (safety rib 1) O11: STOP (lock) / SAS INPUT (with NET_EXP only) O12: FCA1 (opening limit switches Mot1) O13: FCA2 (opening limit switches Mot2) O14: FCC1 (closing limit switches Mot1) O15: FCC2 (closing limit switches Mot2) O16: SAFETY 2 (safety rib 2) O17: OPEN_INT (with NET_EXP only) O18: OPEN_EXT (with NET_EXP only) O19: AUX_IN (with NET_EXP only) O20: SAFETY INHIBITION (SAFETY inhibition)	IN1	001	001	001	001	001	003	
		IN2	002	002	008	008	008	004	
		IN3	010	010	010	000	000	010	
		IN4	008	008	011	000	011	008	
		IN5	012	009	000	000	015	012	
		IN6	014	011	000	000	014	014	

2	P023	Allocation of CHANNEL 1 of remotes								
INPUTS CONFIGURATION PARAMETERS	P024	Allocation of CHANNEL 2 of remotes								
IS CONFIGURA PARAMETERS	P025	Allocation of CHANNEL 3 of remotes								
URATIO	P026	Allocation of CHANNEL 4 of remotes	Allocation of CHANNEL 4 of remotes							
2	P027	Selection of type of remotes	Selection of type of remotes							
OPERATORS CONFIGURATION PARAMETERS	P028	- P039 - P040), are automatically set to 100% without any possibility	Warning: Selecting the OLI - ROCK operators, all indicated values related to the operator force (P037 - P038 - P040), are automatically set to 100% without any possibility of change. For this type of operator, the obstacle detection is not active and the adjustment of the thrust force can be executed acting on the							
NFIGURA:	P029	Selected work with or without encoders. WARNING: P029 must be set correctly before performing the procedure	Selected work with or without encoders. WARNING: P029 must be set correctly before performing the procedure for programming							
TION	P030	Selectioning operators number								
	P031	Operators speed adjustment during slow-down while opening	Warning: For operators without							
	P032	Operators speed adjustment during the stroke while opening	encoder, speedness during the stroke while opening/closing							
	P033	Operators speed adjustment during the stroke while closing (100%) and slow down speedness while opening/closing (30%) are fixed independently from set								
	P034	Operators speed adjustment during slow-down while closing	values.							
OPE	P035	Slow down duration adjustment while opening								
	P036	Slow down duration adjustment while closing								
NG PAI	P037	Operator 1 force adjustment while opening (if = 100% obstacle detection deactivated)								
RATING PARAMETERS	P038	Operator n.1 force adjustment while closing (if = 100% obstacle detection deactivated)								
ĒRS		TYPE 00 - 01 - 03 - 05 ONLY: Operator n.2 force adjustment while opening (if = 100% obstacle detection deactivated)	Warning: For operators without encoder: while adjusting the force, obstacle detection during the							
	P039	TYPE 02 - 04 ONLY: Secondary force adjustment in closing: adjusts the motor's force during the last part of the closing movement defined by P058	slowdown is ignored.							
	POYO	Operator n.2 force adjustment while closing (if = 100% obstacle detection deactivated)								
	POYI	Automatic closing times adjustment (if = 0 automatic closing deactivated)								

The state of the s										
		TYPE 00	TYPE 01	TYPE 02	TYPE 03	TYPE 04	TYPE 05			
	• 000: NONE (unused) • 001: START (start)	CH1	001	001	001	001	001	001		
	002: PEDESTRIAN (pedestrian)003: OPEN (separated open)004: CLOSED (separated close)				000	000	000	000	000	000
	005: Unused006: Unused007: ELOCK-IN (electric-lock a	ctivatio	n See P062)	СНЗ	000	000	000	000	000	000
	O08: AUX_IN (with NET_EXP o O09: STOP		11. 300 1 002)	СН4	000	000	000	000	000	000
	000: HCS fix-code 001: HCS rolling-code		: Dip-switch : DART		000	000	000	000	000	000
	000: LATO 001: LOOK - MAC - STING 002: GHOST 100/200 003: 500 - 500MT - 502 - 502EN - 902EN - PASS - 550PL 004: STOP - 500P - 500MT/RF - 502R - 502R/EN - 502L - 902R - 902R/EN/F				005	001	003	003	000	005
	 000: motors with encoder 001: engines without encoder. Slow down is activated 002: engines without encoder. Slow down not activated 				000	001	000	000	000	002
	001: one operator 002: two operators				001	002	001	001	001	881
	15%tot100%tot				040	050	050	030	030	100
	15%tot100%tot				100	100	100	100	100	100
	15%tot100%tot				100	100	100	100	100	100
	15%tot100%tot				040	050	050	030	030	100
	0%tot80%tot				025	020	020	030	020	020
	0%tot80%tot				025	020	020	030	020	020
	15%tot100%to	ot			050	050	050	099	050	100
	15%tot100%to	ot			050	050	050	099	050	100
	15%tot100%tot									
	0%tot100%tot				050	050	000	099	000	100
	0%tot100%	%tot			050	050	000	099	050	100
	0sec255se	ec			000	000	000	000	000	000

	P042		automatic closing time adjustment estrian automatic closing deactivated)					
	P043	Pedestrian s	stroke duration adjustment					
	POYY	Pre-flashing	Pre-flashing time adjustment					
	POYS	Adjustment	of phase displacement time while opening					
	P046	Adjustment	of phase displacement time while closing					
	PBYT		Collectivity function: if it is activated it deactivates both opening and closing inputs for the whole duration of automatic opening and closing					
	P048	before each pushing stro	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	step" (during	node selection (during the manoeuvre a command impulse reverse the mouvement) or "step by g the manoeuvre a command impulse stops the mouvement). A next impulse restart the operator site direction.					
OPERATING PARAMETERS	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).					
PARAMET	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.					
TERS	P052	If = 0 "fix wa	ode selection of the warning light output: rning light" (output always ON when the gate is open, OFF after a closing operation), esy light" (output ON during each movement, OFF when the motor stops, after the setting delay).					
	P053	of stroke, als Warning: Du	r end of stroke while opening too: when activated, operators stop only at their arrival et the end so while opening. Uring the emergency operation (rESP), the motor executes the first maneuver while opening. In any limit switches, the parameter is forced to 1.					
	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. Warning: For operators without encoder, the parameter will be ingnored.						
	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	activated): If	version on obstacle period (detected by internal anti-crushing sensor or by the safety input when f = 0 it makes a complete inversion, if> 0 indicates the duration (in seconds) of the run, after sulting from detection of an obstacle during the closing.					
	P057	a brief time	manual release: If≠0, after ending the closing or opening maneuver, the engine reverses for to release the pressure on it, and thus facilitate the manual release. The set value shows the inversion. If=0 function disabled					

	TYPE 00	TYPE 01	TYPE 02	TYPE 03	TYPE 04	TYPE 05
0sec255sec	000	000	000	000	000	000
5%tot100%tot	030	035	035	100	100	100
0sec10sec	000	000	000	000	000	000
0sec30sec	/	001	/	/	/	000
0sec30sec	/	003	/	/	/	000
000: disabled001: activated only upon opening002: activated on automatic opening and closing	000	000	000	000	000	001
 000: "ram blow" deactivated 001: "ram blow function" activated >001: "ram blow" periodic (X*1 min) (2255) 	000	000	000	000	000	060
000: "reversal function"001: "step by step function"	001	001	001	001	001	000
 000: photocell enabled while closing and when gate is stopped 001: photocells always enabled 002: photocells enabled only while closing 	002	002	002	002	002	002
 003: as 000 but with "close immediately" enabled 004: as 001 but with "close immediately" enabled 005: as 002 but with "close immediately" enabled 	000	001	002	002	002	002
000: "fix warning light">001: "courtesy light" off delay (2sec255sec)	000	000	060	000	000	000
 000: Stop when opening on a memorized point 001: Stop when opening on the end of stroke 	/	001	001	001	000	000
 000: "soft start" deactivated 001: "soft start" activated 002: "long soft start" activated 003: "settable soft start" on (Type 2 only) 	001	001	001	001	001	000
000: complete reversal on obstacle >000: duration of reversal on obstacle (1sec10sec)	003	003	003	003	003	000
000: complete reversal on obstacle >000: duration of reversal on obstacle (1sec10sec)	003	003	003	003	003	000
 000: facilitating release disabled >000: facilitation activated with release time equal to: (1x25ms20x25ms) (1x25ms40x25ms) (only Type 0) 	000	001	003	002	000	000

TYPE 00 - 0.1 - 0.3 - 0.5 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 POSS (duration slow-down while opening) is >10%, it forces the stroke detection margin so that it's the same than the slow-down. TYPE 02 - 04 ONLY: Duration adjustment for the secondary force in closing; adjusts the duration of the last part of the closing movement, in which the force is managed separately with PO39. The value is expressed in number of revolutions of the rotor. TYPE 00 - 0.1 - 0.3 - 0.5 ONLY: Adjustment of the closing stroke margin: it adjusts the duration of the last part of the storke 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, the Value is expressed in % of the maximum stroke. Warning: for motors without encoder, it PO36 (curation slow-down while closing) is >10%, it forces the stroke detection margin so that it's the same than the slow-down. TYPE 0.0 - 0.1 -0.3 -0.5 ONLY. Adjustment of the story warning in closing: adjusts the duration of the last part of the closing movement, in which an obstacle is seen as a stop, causing the motor to stop without reversal on the stroke is calculated automatically): if#0 (operators without encoder) it indicates the force value on the stroke is calculated automatically): if#0 (operators without encoder) it indicates the force value on the stroke is calculated. The value is expressed in number of revolutions of the rotor. TYPE 0.0 -0.1 -0.3	1									
part of the closing movement, in which the force is managed separately with PO39. The value is expressed in number of revolutions of the rotor. TYPE 00 - 03 - 03 - 05 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. Warning: for motors without encoder, if PO36 (duration slow-down while closing) is >10%, it forces the stroke detection margin so that it's the same than the slow-down. TYPE 02 - 04 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 a stop, causing the motor to stop without reversal on the obstacle. The value is expressed in number of revolutions of the rotor. TYPE 00 - 01 - 03 - 05 ONLY: Operators force adjustment at stroke arrival—if=0, setting off (the force value on the stroke is calculated automatically) - If=0 (operators without encoder), it indicates the force value (expressed in% of the max value) set in the last length - If=0 (operators without encoder), max speed is activated during last length. TYPE 02 - 04 ONLY: Force adjustment in the stop margin in closing, its duration is set through P059. P05c Unused parameter 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 or electric-lock power supply via an external relay, If=5 24V output for electric-lock art.110 power supply via an external relay, If=5 24V output for electric-lock art.110 power supply via an external relay, If=5 24V output for electric-lock art.110 power		P058	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 PO35 (duration slow-down while opening) is >10%, it forces the							
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, if the po36 (duration slow-down while closing) is >10%, it forces the stroke detection margin so that it's the same than the slow-down. TYPE 02 - 04 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 a stop, causing the motor to stop without reversal on the obstacle. The value is expressed in number of revolutions of the rotor. TYPE 00 - 01 - 03 - 05 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 stength). TYPE 02 - 04 ONLY: Force adjustment in the stop margin in closing, its duration is set through P059. P066 Unused parameter 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 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). 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; Maintenance Operati			part of the closing movement, in which the force is managed separately with PO39. The value is expressed							
Closing movement, in which an obstacle is seen as a stop, causing the motor to stop without reversal on the obstacle. The value is expressed in number of revolutions of the rotor. TYPE 00 - 01 - 03 - 05 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 - If≠0 (operators without encoder), max speed is activated during last length. TYPE 02 - 04 ONLY: Force adjustment in the stop margin in closing, its duration is set through P059. PD51		P059	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 P036 (duration slow-down while closing) is >10%, it forces the stroke							
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 - If≠0 (operators without encoder), max speed is activated during last length. TYPE 02 - 04 ONLY: Force adjustment in the stop margin in closing, its duration is set through P059. PD51 Unused parameter 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 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=050, 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. 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". Selection of operating flashing light output: If=0 intermittent flashing light output; If=1 Fix			closing movement, in which an obstacle is seen as a stop, causing the motor to stop without reversal on the							
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). 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; 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". Selection of operating flashing light output: If=0 intermittent flashing light output; If=1 Fixed flashing light	OPERATI	P060	the stroke is calculated automatically) - If \neq 0 (operators with encoder) it indicates the force value (expressed in% of the max value) set in the last length - If \neq 0 (operators without encoder), max speed is activated during							
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). 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; 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". Selection of operating flashing light output: If=0 intermittent flashing light output; If=1 Fixed flashing light	NG.		TYPE 02 - 04 ONLY: Force adjustment in the stop margin in closing, its duration is set through P059.							
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). 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; 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". Selection of operating flashing light output: If=0 intermittent flashing light output; If=1 Fixed flashing light	ARA	P061	Unused parameter							
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; 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". Selection of operating flashing light output: If=0 intermittent flashing light output; If=1 Fixed flashing light	METERS	step-by-step mode, If=3 electro-brake output for not self-locking operators, If=4 24V output for power supply via an external relay, If=5 24V output for electro-magnets power supply for barri output controlled by the ELOCK_IN input as temporized mode (the set value indicates the switch seconds).								
PDE4 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". Selection of operating flashing light output: If=0 intermittent flashing light output; If=1 Fixed flashing light			Warning: To adjust the activation/deactivation times in the 000 004 005 modes, use parameter P064.							
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		P063	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							
			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;							
		P054	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; 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							

	TYPE 00	TYPE 01	TYPE 02	TYPE 03	TYPE 04	TYPE 05
1255 (motors with encoder) 1%100% (motors without encoder) 0255	012	025	000	020	000	025
1255 (motors with encoder) 1%100% (motors without encoder) 1255	012	025	025	020	025	025
0%tot100%tot	000	000	000	000	000	000
0%tot100%tot						
	/	/	/	/	1	/
 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	000
000: "Standard installation"001: "Inverted installation"	000	000	000	000	000	000
0sec10sec	002	002	002	002	002	001
000: "Request Maintenance disabled >000: "Number of operations (x 500) for required maintenance (1255)	000	000	000	000	000	000
000: "intermittent flashing light output001: "fixed flashing light output	001	001	001	001	001	001

	P067	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 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						
	P068	SAFETY 2	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 while closing)						
	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							
	POTO		Adjustment of acceleration durability Warning: if soft start is activated, the acceleration is deactivated indipendently from P070 value.						
	ורםק	(it turn the o	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 (33-34), and be wired and aligned before the motor stroke learning (P003).						
OPERATING PARAMETERS	POTZ	second cont the first is no If this param activated. If Warning : if	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.						
IETERS	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 N0T use this function in case there are any clocks/timers connected to the inputs configured as OPEN or CLOSE.							
	POTY	Unused para	ameter						
	P075	Unused para	ameter						
	P076	Unused para	ameter						
	POTT	The control	rake (TYPE 00 ONLY): circuit drives the motor in a way to generate a braking force at every stop. inction available only with functioning at motor 1 with encoder.						
	P078 P099		on parameters dedicated to the expansion card NET_EXP (for a detailed description of the , refer to the instruction manual).						

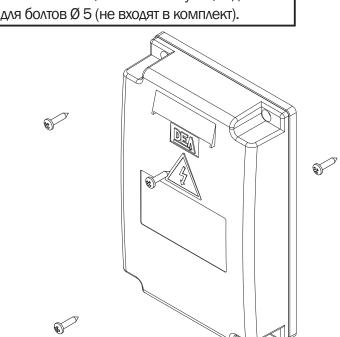
						IE I 2501
	TYPE 00	TYPE 01	TYPE 02	TYPE 03	TYPE 04	TYPE 05
 000: "safety edge always enabled 001: "safety edge enabled only while closing 002: "safety edge enabled only while closing and before any movement 	000	000	000	000	001	001
 003: "safety edge enabled only when opening 004: "safety edge enabled only while opening and before any movement 	000	000	000	000	001	001
000: "limit switch delay disabled001: "limit switch delay enabled	000	000	000	000	001	001
000: "acceleration deactivated (it runs an acceleration of minimum durability, almost imperceptible) 00X: "adjusts the acceleration durability at 1,5 sec (X*6 ms)	108	108	108	108	108	255
000: "net power supply (safeties self-test disabled)001: "safeties self-test enabled	000	000	000	000	000	000
000: "SAS function" deactivated 001: "SAS function" activated	000	000	000	000	000	000
O00: function disabled O01: function enabled (forces switch to Hold-to-run mode when safeties are triggered and OPEN/CLOSE commands are maintained)	000	000	000	000	000	000
	/	/	/	/	/	/
	/	/	/	/	/	/
	/	/	/	/	/	/
000: "deactivated 001: "activated	001	000	000	000	000	000
	/	/	/	/	/	/



NOTES

Eseguire il fissaggio alla parete usando opportuni tasselli per viti Ø5 (non fornite); Fix the box on the wall with appropriate bushings to anchor screws Ø5 (not included); Le fixer au mur en utilisant des douilles à expansion pour vis adéquates Ø5 (pas incluses); Die Wandbefestigung vornehmen, verwenden Sie geeignete Dübel für Ø5 Schrauben (nicht im Lieferumfang); Efectuar la fijación a la pared utilizando adecuados tacos para tornillos de Ø5 (no incluidos); Executar a fixação a parede usando apropriadas rolhas para parafusos

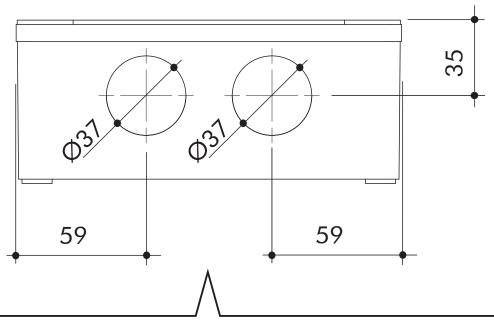
Ø5 (não fornecidas); **Zamocować** do ściany, przy pomocy odpowiednich kołków do śrub Ø5 (nie na wyposażeniu); **Выполнить** крепление к стене с помощью соответствующих дюбелей для болтов Ø 5 (не входят в комплект)



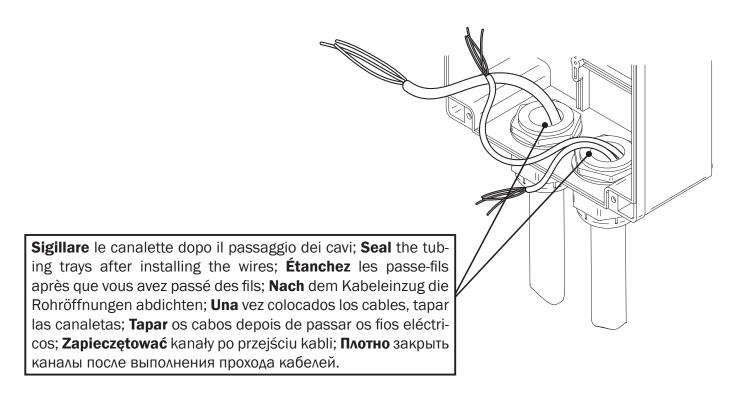
VISTA DA "A"
VIEW FROM "A"
VUE DE "A"
ANSICHT "A"
VISTA DESDE "A"
VISTA DE "A"
WIDOK Z "A"
BИД ИЗ "A"

Passaggio cavi 230V~ all'interno di una canaletta Ø20 raccordata con fermatubi PG29 (non forniti); Pass 230V~ cables inside a grommet Ø20 connected with tube fastening PG29 (items not included); Passage des fils 230V~ dans un passe-fil Ø20 raccordée avec un bloque tube PG29 (ces outils ne sont pas inclus); Kabelführung für die 230V~ Einspeisung in Ø20 Kunstoffrohr mit Pg29 Rohrverschraubung (nicht im Lieferumfang); Paso de los cables 230V~ por el interior de una canaleta de Ø20 unida con pasacable PG29 (no incluidos); Passagem cabos 230V~ ao interno de um cano Ø20 com fixação do tubo PG29 (não fornecidos); Przejście kabli 230V~ wewnątrz kanaliku Ø20 połączonego z zaciskami przewodów PG29 (nie na wyposażeniu); Проход кабелей 230V~ внутри канала Ø20, связанного с фиксаторами PG29 (не входят в комплект).

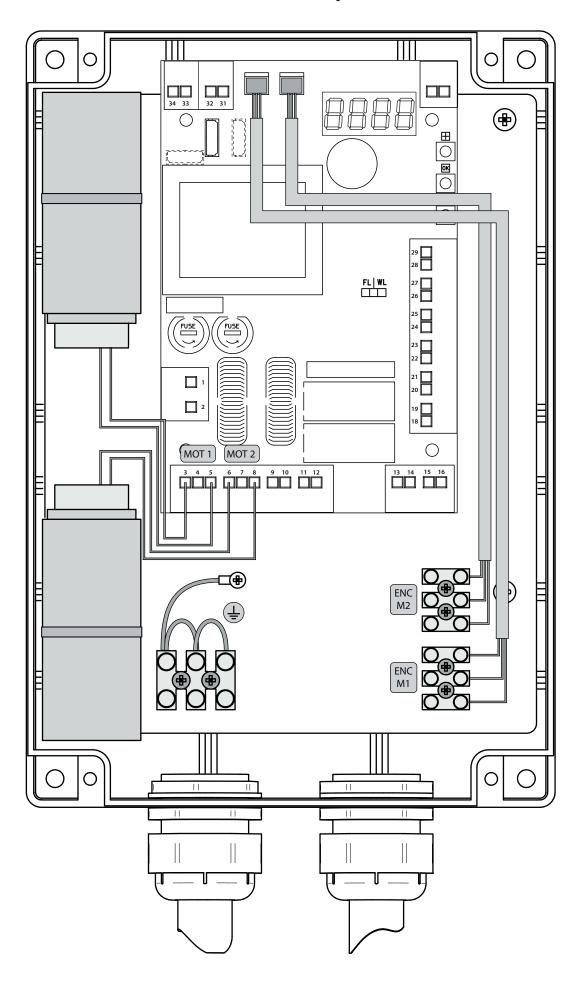
Passaggio cavi a bassissima tensione all'interno di una canaletta Ø20 raccordata con fermatubi PG29 (non forniti); **Pass** very low tension cables inside a grommet Ø20 connected with tube fastening PG29 (items not included); Passage des fils à très basse tension dans un passe-fil Ø20 raccordée avec un bloque tube PG29 (ces outils ne sont pas inclus); Kabelführung für die Schwachstromkabel in Ø20 Kunstoffrohr mit Pg29 Rohrverschraubung (nicht im Lieferumfang); Paso de los cables de tensión muy baja por el interior de una canaleta de Ø20 unida con paratubo PG29 (no incluidos); Passagem cabos a baixissima tensão ao interno de um cano Ø20 com fixação do tubo PG29 (não fornecidos); Przejście kabli bardzo niskiego napięcia wewnątrz kanaliku Ø20 połączonego z zaciskami przewodów PG29 (nie na wyposażeniu); Проход кабелей очень низкого напряжения внутри канала Ø20, связанного с фиксаторами PG29 (не входят в комплект).



VISTA DA "A" Fori da eseguire sul fondo della scatola con seghe a tazza Ø37 per l'inserimento dei fermatubi; VIEW FROM "A" Holes to be drilled on the bottom of the box with a hole saw Ø37 to introduce tube fastening; VUE DE "A" Trous à percer au fond du boîtier avec une scie-cloche Ø37 afin d'introduire des bloque tube; ANSICHT "A" Mit einem 37mm Kronenbohrer die Rohrdurchführungen vohrnemen; VISTA DESDE "A" Agujeros que deben hacerse en la base de la caja con sierras cilíndricas de Ø37 para la introducción de los paratubo; VISTA DE "A" Furos pra executar no fundo da caixa com serra a xícara Ø37 para inserimento dos fixação do tubo; WIDOK Z "A" Otwory do wykonania na dnie skrzynki z wiertłami Ø37 dla włożenia zacisku; ВИД ИЗ "A" Отверстия для выполнения в нижнем основании ящика с помощью кольцевой пилы Ø37 для установки фиксаторов.



NET230N/C





NOTES

EU Declaration of Conformity (DoC)

Company name:	DEA SYSTEM S.p.A.
Postal address:	Via Della Tecnica, 6
Postcode and City:	36013 Piovene Rocchette (VI) - ITALY
Telephone number:	+39 0445 550789
E-Mail address:	deasystem@deasystem.com

declare that the DoC is issued under our sole responsibility and belongs to the following product:

Apparatus model/Product:	NET230N - NET230N/C		
Туре:	Universal control panel for 230V operators		
Batch:	See the label on the back of the user manual		

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Directive 2014/53/UE (RED Directive) Directive 2011/65/EU (RoHS)

The following harmonised standards and technical specifications have been applied:

Title:	Date of standard/specification
EN61000-6-2	2005 + EC:2005
EN61000-6-3	2007 + A1:2011
EN301 489-1 v2.1.1	2017
EN301 489-3 v2.1.1	2017 final draft
EN60335-1	2012 + EC:2014 + A11:2014
EN62233	2008
EN300 220-1 v3.1.1	2017
EN300 220-2 v3.1.1	2017
EN50581	2012

Additional information

Signed for and on behalf of:							
Revision:	Place and date of issue:	Name, function, signature					
00.04	Piovene Rocchette (VI) 15/01/18	Tiziano Lievore (Administrator)					





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