ENTRE/MATIC



Ditec ION4-ION6
Sliding gates
(translation of the original instructions)

IP2288EN • 2019-04-10
Technical Manual

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1. General safety precautions



Please follow these instructions. Failure to observe the information given in this manual may lead to personal injury or damage to the equipment.

Keep these instructions for future reference.

This installation manual is intended for qualified personnel only.

Installation, electrical connections and adjustments must be performed by qualified personnel, in accordance with Good Working Methods and in compliance with the current regulations. Read the instructions carefully before installing the product.

Bad installation could be dangerous.

This manual and those for any accessories can be downloaded from www.entrematic.com.

The packaging materials (plastic, polystyrene, etc.) should not be discarded in the environment or left within reach of children, as they are a potential source of danger.

Before installing the product, make sure it is in perfect condition.

Do not install the product in explosive areas and atmospheres: the presence of inflammable gas or fumes represents a serious safety hazard.

Before installing the motorisation device, make all the necessary structural modifications to create safety clearance and to guard or isolate all the crushing, shearing, trapping and general hazardous areas.

Make sure the existing structure is up to standard in terms of strength and stability. The motorisation device manufacturer is not responsible for failure to observe Good Working Methods when building the frames to be motorised, or for any deformation during use.

The safety devices (photocells, safety edges, emergency stops, etc.) must be installed taking into account: applicable laws and directives, Good Working Methods, installation premises, system operating logic and the forces developed by the motorised door or gate.

The safety devices must protect against crushing, cutting, trapping and general danger areas of the motorised door or gate.

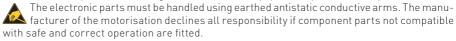
Display the signs required by law to identify hazardous areas.

Each installation must bear a visible indication of the data identifying the motorised door or gate. When necessary, connect the motorised door or gate to an effective earthing system that complies with the current safety standards.



During installation, maintenance and repair operations, cut off the power supply before opening the cover to access the electrical parts.

The automation protection casing must be removed by qualified personnel only.



Only use original spare parts for repairing or replacing products.

The installer must supply all information concerning the automatic, manual and emergency operation of the motorised door or gate, and must provide the user with the operating instructions. The installer must ensure that the temperature range indicated in the technical specifications is compatible with where the gate will be used.



General safety precautions for the user



These precautions are an integral and essential part of the product and must be supplied to the user.

Read them carefully since they contain important information on safe installation, use and maintenance.

These instructions must be kept and forwarded to all possible future users of the system.

This product must only be used for the specific purpose for which it was designed.

Any other use is to be considered improper and therefore dangerous. The manufacturer cannot be held responsible for any damage caused by improper, incorrect or unreasonable use.

Avoid operating in the proximity of the hinges or moving mechanical parts. Do not enter within the operating range of the motorised door or gate while it is moving.

Do not obstruct the motion of the motorised door or gate, as this may cause a dangerous situation.

The motorised door or gate may be used by children over the age of 8 and by people with reduced physical, sensorial or mental abilities, or lack of experience or knowledge, as long as they are properly supervised or have been instructed in the safe use of the device and the relative hazards.

Children must be supervised to make sure they do not play with the device, nor play/remain in the sphere of action of the motorised door or gate.

Keep remote controls and/or any other command devices out of the reach of children, to avoid any accidental activation of the motorised door or gate.

In the event of a product fault or malfunction, turn off the power supply switch. Do not attempt to repair or intervene directly, and contact only qualified personnel.

Failure to comply with the above may cause a dangerous situation.

Any repair or technical intervention must be carried out by qualified personnel.

Cleaning and maintenance work must not be carried out by children unless they are supervised.

To ensure that the system works efficiently and correctly, the manufacturer's indications must be complied with and only qualified personnel must perform routine maintenance on the motorised door or gate. In particular, regular checks are recommended in order to verify that the safety devices are operating correctly.

All installation, maintenance and repair work must be documented and

made available to the user.

Only lock and release the door wings when the motor is switched off. Do not enter within the operating range of the wing.

To dispose of electrical and electronic equipment correctly, users must take the product to special "recycling centres" provided by the municipal authorities.

2. Declaration of incorporation of partly completed machinery

(Directive 2006/42/EC, Annex II-B)

The manufacturer Entrematic Group AB, with headquarters in Lodjursgatan 10, SE-261 44 Landskrona, Sweden, declares that the Ditec ION4-ION6 automation for swing gates:

- is designed to be installed on a manual gate to form a machine pursuant to Directive 2006/42/ EC. The manufacturer of the motorised gate must declare conformity with Directive 2006/42/ EC (annex II-A) prior to initial machine start-up;
- complies with the applicable essential safety requirements indicated in Annex I, Chapter 1 of the Directive 2006/42/EC;
- complies with the RED Directive 2014/53/EU;
- the safety functions are compliant with Category 2, PLc according to EN ISO 13849-1;
- the technical documentation complies with Annex VII-B of the Directive 2006/42/EC;
- the technical documentation is managed by the Technical Office of Entrematic Italy (with headquarters in Largo U. Boccioni 1 21040 Origgio (VA) ITALY) and is available upon request, sending an e-mail to ditec@entrematic.com;
- a copy of the technical documentation will be given to competent national authorities, following a suitably justified request.

Landskrona, 26-02-2018



2.1 Machinery Directive

Pursuant to Machinery Directive (2006/42/EC) the installer who motorises a door or gate has the same obligations as the manufacturer of machinery and as such must:

- prepare the technical data sheet which must contain the documents indicated in Annex V of the Machinery Directive;
 - (The technical data sheet must be kept and placed at the disposal of competent national authorities for at least ten years from the date of manufacture of the motorised door or gate);
- draw up the EC Declaration of Conformity in accordance with Annex II-A of the Machinery Directive and deliver it to the customer;
- affix the EC marking on the motorised door or gate, in accordance with point 1.7.3 of Annex I of the Machinery Directive;
- ensure compliance of the motorised door or gate with safety regulations, by installing the necessary safety devices;

3. Technical specifications

	ION4	I0N4J	ION6	ION6J
Maximum stroke		12	2m	
Maximum gate weight	400Kg		600Kg	
Gate speed		0,1÷0	,3 m/s	
Thrust	200N nominal, 6001	N start-up	300N nominal, 800N start-up	
Power supply	230 V~ 50/60Hz	120 V~ 50/60Hz	230 V~ 50/60Hz	120 V~ 50/60Hz
Power absorption	0,45A	0,9A	0,6A	1,2A
Fuse	T1A	F2A	F1,6A	F3,15A
Power	100 W		130 W	
Intermittence	80 cycles/day, 30 continuous cycles			
Lifespan	From 50,000 to 150,000 cycles, depending on the conditions indicated (see the product lifespan charts)			indicated in table
Acoustic pressure		LpA ≤ ′	70dB(A)	
IP degree of protection	44			
Usage temperature	.20°C	₹+55°C (-₹-3!	5°C +55°C with	h active NIO)
Product size	300 x 260 x 195			
Control panel	LCU48			
Motor output	24V 🚃 10A max			
Power supply to accessories	24V 0,3A max			
Radio frequency	433,92 MHz			
Storable radio codes	100 / 200 vedi RO \rightarrow MU \rightarrow 20/10			

Index of conditioning factors						
		ION4	ION6			
	>150Kg	10	-			
Gate wing weight	>200Kg	20	10			
Gate wing weight	>300Kg	30	20			
	>400Kg	-	30			
Gate wing width	>4m	20	10			
Gate wing width	>8m	-	20			
Wheel diameter <10	1	0				
Saline environment		10				
Safety edge installe	10					
R1/R2 > default	10					
VA/VC > default OC/CB < default	1	0				

150.000 140.000 130.000 120.000 110.000 100.000 90.000 80.000 70.000 60.000 50.000 40.000 30.000 20.000 10.000 0 20 20 30 30 40 60 60 80 90 100 Index of conditioning factors

150.000 140.000 130.000 120.000 110.000 100.000 90.000 80.000 70.000 60.000 50.000 40.000 30.000 20.000 10.000 0 110 20 20 30 40 60 60 70 80 80

Index of conditioning factors

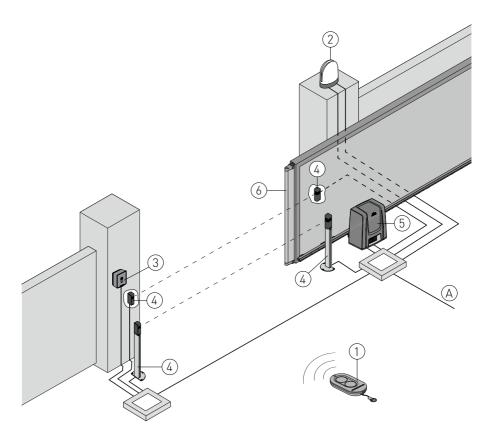
Example of lifespan calculation for ION4

Gate wing weight>150Kg	10	
Gate wing width> 4.5m	10	
Dust	10	
Safety edges installed	10	
VA/VC > default	10	
Total stress index 50		
Estimated lifespan - 80,000 cycles		

Estimated daily cycles 22 (for 10 years)

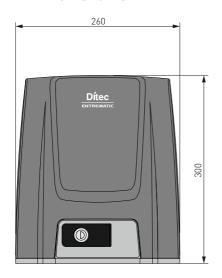


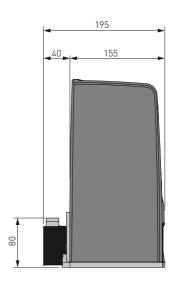
4. Standard installation



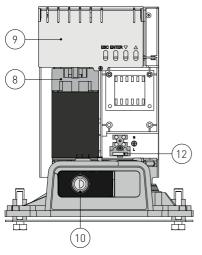
Rif.	Description	Cable
1	Remote control	/
2	Flashing light	2 x 1 mm ²
2	Antenna (integrated into the flashing light)	coaxial 58 Ω
3	Key selector switch	4 x 0,5mm ²
3	Digital combination wireless keypad	/
4	Photocells	4 x 0,5 mm ²
5	Actuator ION with control panel	3G x 1,5 mm ²
6	Safety edge	2 x 0,5 mm ²
Α	Connect the power supply to a type-approved omnipolar switch, with a contact opening least 3mm (not supplied). The connection to the mains must follow an independent path, separate from the connection and safety devices.	

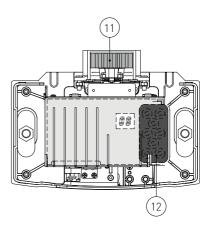
5. Dimensions





6. Main components





Rif.	Descrizione
8	Motor
9	Control panel
10	Key release
11	Pinion
12	Cable inlet
13	Power supply terminal and fuse



7. Installation

The given operating and performance features can only be guaranteed with the use of DITEC accessories and safety devices.

Unless otherwise specified, all measurements are expressed in mm.

7.1 Preliminary checks

Check the stability of the wing (derailing and lateral falls) and the sliding wheels and that the upper quides do not cause any friction.

The sliding guide must be securely fixed to the ground for the full length within doorway and must have no irregularities that could hinder the movement of the wing.

The opening and closing stops must be fitted.

If the gate has slits, make sure they are covered to prevent shearing points or install active safety edges on the columns.

Safety device should be installed at the end of the wing to reduce the collision force.



NR.

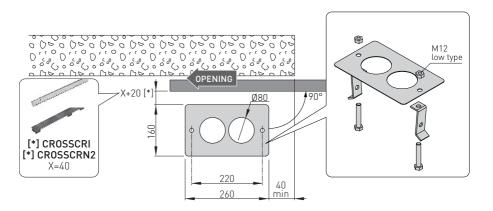
- Make sure that the gate can not exit the sliding guides and fall.
- Make sure that the protection system and any manual release function correctly.

7.2 Base plate position

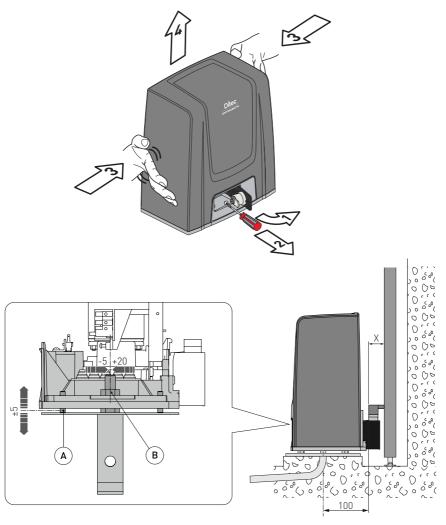
Make a concrete base with the anchor ties and base plate embedded, which must be level and clean and of the size indicated in the figure.



NB: if the concrete base has already been made, base plate can be fixed using M8 plugs (not supplied).



7.3 Gearmotor installation



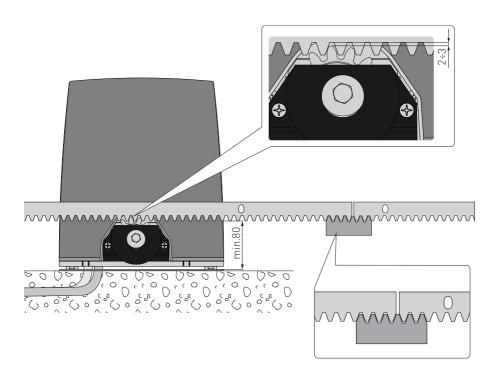
- Release the gearmotor [1] (see OPERATING INSTRUCTIONS). Loosen the front screw [2] and remove the casing by pressing on its sides [3-4].
- Place the gearmotor on the base plate.
- Adjust the gearmotor horizontally by sliding it along the slots of the gearmotor base and vertically with four levelling screws [A].
 - NB: during the vertical adjustment, keep the gearmotor slightly raised from the base plate so that the rack can be fixed and subsequent adjustments are possible.
- After adjusting, fix the gearmotor using screws [B].



WARNING: The gearmotor must be suitably raised from the ground to avoid flooding. Tighten the [B] screws using a tightening torque of 20-25 Nm.



7.4 Rack installation



- Release the gearmotor (see OPERATING INSTRUCTIONS) and open the gate.
- Place the rack against the pinion and sliding the gate manually fix it along its whole length. NB: To make it easier to align the rods correctly, use a scrap piece of rack and rest it underneath the junction point, as shown in the figure detail.
- Once fixed, vertically adjust the gearmotor to give a play of about 2 to 3 mm between the pinion and the rack.
- Secure the gearmotor with the [B] screws using a tightening torque of 20-25 Nm.
- Slightly lubricate the rack and pinion after assembly.
 Manually check that the gate slides evenly and without friction.





7.5 Operation with virtual encoder

ION4-ION6 gearmotors do not require limit switches because they have a virtual encoder.

Mechanical opening and closing end stops must be installed.

The gate automatically slows when approaching the end stops.

WARNING: when the gate reaches the opening or closing limit stop, it reverses briefly to facilitate manual release of the gearmotor.

7.6 Installation of optional accessories

7.6.1 Magnetic limit switches



The limit switch kit is used to stop the gate before it reaches the opening and closing mechanical stops.

With a limit switch installed, slowdown is carried out at regulated power to overcome possible friction.

For the installation of the limit switch kit, refer to the **NES100FCM** manual.

To position the limit switches, you can use the menu $\S F \to T F$ (visible by activating the additional configurations $H T \to H H$).

The display shows the status of the limit switches:

- F A: opening limit switch configured and activated;
- F C: closing limit switch configured and activated;
- No (both parts of display active): opening limit switch not configured and activated;
- No (no part of display active): closing limit switch not configured and activated;
- . (central part of display active): no limit switch activated;

With the limit switches configured as STOP [FA = SX; FC = SX] the anti-violation function is activated. When the automation stopped open or closed, if the gate backs off releasing the limit switch, it is brought back into position avoiding openings from external forces [energy saving must be disabled ES = OFF].

7.6.2 Battery kit

For installation of the battery kit, refer to the SBU-IONSBU-BBU20-BBU65 (IP2254) manual.



The battery kit guarantees operation if there is a power cut. For advanced control of battery-powered operation, refer to the EM menu.

7.6.3 Remote release handle

For installation of the remote release handle, refer to the IONSBM and ASR2 manual.



The kit can be used to remotely release the gearmotor.

A microswitch guarantees safety.

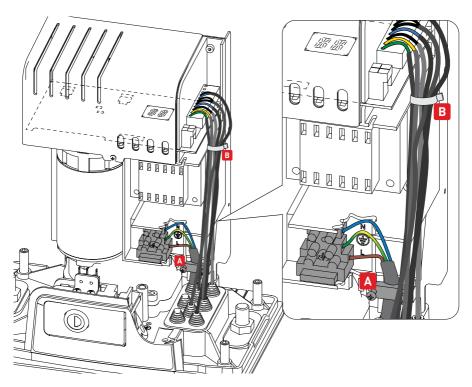
When the handle is released, the control panel performs a reset



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8. Electrical connections



Before connecting the power supply, make sure the plate data correspond to that of the mains power supply.

An omnipolar disconnection switch with a contact opening distance of at least 3mm must be fitted on the mains supply.

Check there is an adequate residual current circuit breaker and overcurrent cutout upstream of the electrical system.

For the power supply, use a H05RN-F3G1.5 type electric cable. Connect it to terminals L (brown), N (blue), (4) (yellow/green) inside the automation.

NOTE: the maximum permisible section of the wire is AWG14 (2 mm²).

In order to comply with essential requirements of standards in force, reclose the cover once the wires have been connected to the terminal.

In the external automation section, the connections to the mains power supply and any other low voltage wires (230V) must be made on an independent channel separated from the connections to the command and safety devices (SELV = Safety Extra Low Voltage).

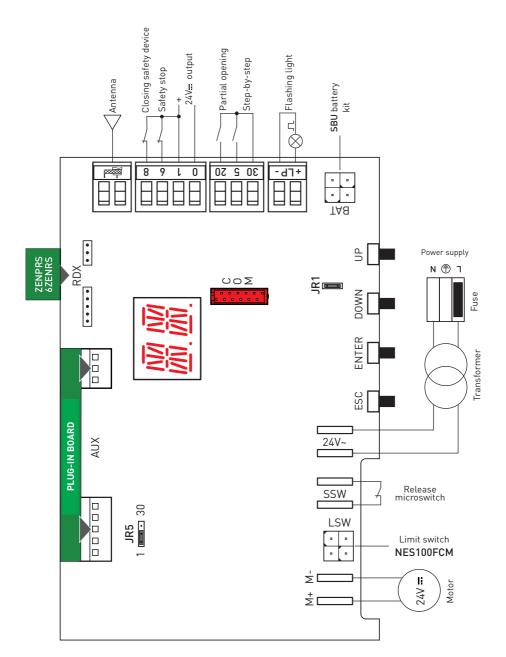
The channel must penetrate the automation through the holes on the base plate by a few centimetres.

Make sure there are no sharp edges that may damage the power supply cable.

Make sure the mains power wires (230V) and the accessory wires (24V) are separated. The cables must be double insulated. Unsheathe them in line with the relative connection terminals, and use cable fasteners (see ref. A) or straps (not supplied by us) to hold them in place.



9. LCU48 card



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10. Using of the menus



NB: pressure on the keys may be quick (less than 2 s) or prolonged (longer than 2 s). Unless specified otherwise, quick pressure is intended.

To confirm the setting of a parameter, prolonged pressing is necessary.

10.1 Switching the display ON and OFF

The procedure to switch on the display is as follows:







• the first level menu is displayed 7

The procedure to switch off the display is as follows:

press the ESC key

NB: there is no automatic exit from the WZ quick configuration menu. For all the other menus, the display switches off automatically after 60 seconds of inactivity.

10.2 Navigation keys

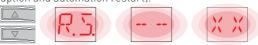
ullet The simultaneous pressing of the ullet and ENTER keys produces an opening command.



ullet The simultaneous pressing of the ullet and ENTER keys produces a closing command.



 \bullet The simultaneous pressing of the \uparrow and \downarrow keys produces a POWER RESET command (power supply interruption and automation restart).



• Keep the UP ↑ or DOWN ↓ key pressed to begin fast menu scrolling.

To set a parameter, select the desired value and press ENTER for 2 seconds to save. Example: setting of 30 seconds for parameter TC

















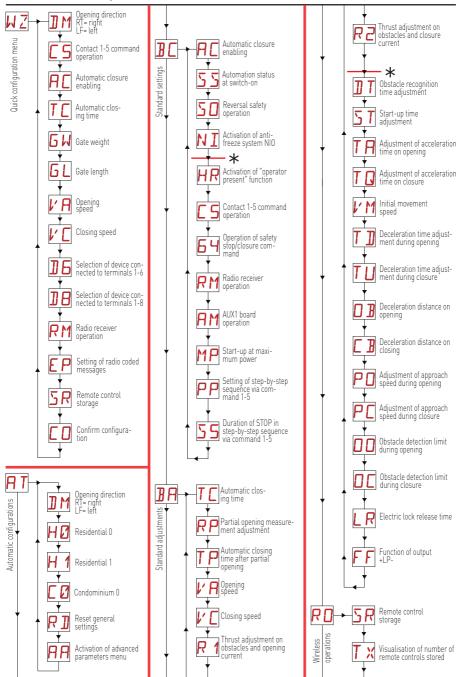




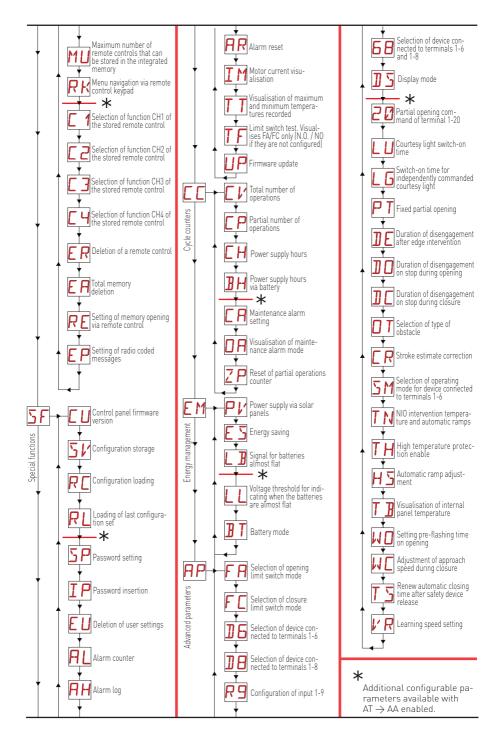


• In some menus, the parameter measurement unit can be viewed by pressing the ENTER key once the value has been displayed.

10.3 Menu map







11. Product start-up

For rapid configuration of the product, use the WIZARD (WZ) menu or the second level AT (Automatic Configurations) menu [See par. 15.2].

For detailed, customised configuration, use the main menus BC, BA, RO, SF, CC, EM, AP.

11.1 WZ configuration wizard menu

To access the WZ configuration wizard menu:

Hold down the ENTER button for 2 seconds.

When OK has stopped flashing, DM, the first menu parameter, is displayed.



To set a parameter:

- 1. Press ENTER to access the configuration items.
- 2. Scroll UP/DOWN the possible options.
- 3. To confirm, press the ENTER button for 2 seconds. The selected value flashes and when it has finished, the next parameter appears.



	Display	Description
	IM	DM - Selection of opening direction (looking at the automation from the side being examined) • RT: opens to the right (default) • LF: Opens to the left
	C 5	C5 - Operation of command associated with contact 30-5 • 1-5: step-by-step (default) • 1-3: Opening
	AC	AC - Enabling of automatic closure ON: enabled (default) OF: disabled
ard	TE	TC - Setting of automatic closing time [seconds] [N.B.: only visible if you have selected AC = ON in the previous step] • from 0" to 59" with intervals of 1 second. • - from 1" (default) to 2' with intervals of 10 seconds.
WZ - Wizard	5 N	GW - Selection of gate weight. The selected value sets parameters R1 and R2 to adjust the maximum thrust current of the motor. • L6: up to 200 kg \rightarrow (R1=R2=30%) • M6: between 200 kg and 300 kg for ION4 and ION4J, between 200 kg and 400 kg for ION6 and ION6J \rightarrow (R1=R2=50%) • H6: between 300 kg and 400 kg for ION4 and ION4J; between 400 kg and 600 kg for ION6 and ION6J \rightarrow (R1=R2=70%)
	5 L	GL - Selection of gate length The selected value sets parameters OB and CB for adjusting the deceleration space • 02: between 0 and 2 m \rightarrow [0B=CB=50cm] • 04: between 2 and 4 m \rightarrow [0B=CB=60cm] [default] • 06: between 4 and 6 m \rightarrow [0B=CB=70cm] • >6: over 6 m \rightarrow [0B=CB=80cm]
	ľΑ	VA - Selection of opening speed • L0: 15 cm/s • ME: 20 cm/s [default] • HI: 25 cm/s



To save the configuration:

In the CO parameter select YS (yes) and press the ENTER button for 2 seconds. When the configuration has been saved, a power reset is automatically performed on the card.



To quit without saving changes:

In the CO parameter select NO and press the ENTER button for 2 seconds.



Or: from any main parameter, press the ESC button for 2 seconds.

Example



NOTES

- The set values are only stored on the card if they are saved using the CO parameter.
- The CO parameter and YS/NO options flash constantly.
- When a configuration item is confirmed, it automatically moves on to the next parameter.
- You can scroll through the menu parameters using the UP/DOWN buttons.
- There is no automatic timeout function to quit.





12. Commands



You are advised to read paragraph 15 for all the details about the possible adjustments.



WARNING: terminal 30 (common positive for commands) has the same functions as terminal 1, so the commands visualised on the display are indicated with 1-5, 1-3, etc. It is different from terminal 1, however, because of the maximum current that can be dispensed and it is also active when the control panel is in standby $E \supset D N$.

Command		Function	Description
30 5	NO	STEP-BY-STEP	When selecting $\Box \Box \rightarrow \Box \Box \rightarrow I$ - 5, the closure of the contact activates a sequential opening or closing operation: opening-stop-closing-opening. WARNING: if automatic closure is enabled, the duration of the stop can be defined by selecting $\Box \Box \rightarrow \Box \Box$. The "opening-stop-closing-opening" sequence can be changed to "opening-stop-closing-stop-opening" by selecting $\Box \Box \rightarrow PP$.
		OPENING	When selecting]] [\rightarrow [$5 \rightarrow$]-], the closure of the contact activates an opening operation.
1 6	NO	CLOSURE	When selecting]] [\rightarrow 6 \dashv \rightarrow] - \dashv , closing the contact activates a closing operation.
1 6	NC	SAFETY STOP	When selecting $\Box \Box \rightarrow \Box \Box \rightarrow I - \Box$, opening of the safety contact stops and prevents any movement. NB: to set different safety contact functions, see the $\Box P \rightarrow \Box M$ parameter settings.
1 — t— 8	NC	CLOSING SAFETY DEVICE	The opening of the safety contact triggers a reversal of the movement (reopening) during the closing operation. When selecting $\mathbb{C} \to \mathbb{C} \to \mathbb{C} \to \mathbb{C} \to \mathbb{C}$ N, the opening of the contact prevents any operation when the automation is idle. When selecting $\mathbb{C} \to \mathbb{C} \to \mathbb{C} \to \mathbb{C}$ F, the opening of the contact only prevents closure when the automation is idle.
1 6	NC	CLOSING/ OPENING SAFETY DEVICE	The opening of the safety contact stops and prevents any movement. NB: operation corresponds to that of contact 1-6 with $\ref{PP} \rightarrow \ref{SM} \rightarrow \ref{DS}$.
1 20	NO	PARTIAL OPENING	The closure of the contact activates a partial opening operation. Once the automation stops, the partial opening control performs the opposite operation to the one performed before the stop.
1	NC	AUTOMATIC CLOSURE OR STOP	Selecting $\PP \rightarrow 20 \rightarrow 1-2$, the permanent closure of the contact enables automatic closure if $\PC \rightarrow 1-2$. Selecting $\PP \rightarrow 20 \rightarrow 1-9$, the opening of the safety contact causes the movement to stop. NB: the flashing light flashes.



WARNING: make a jumper for all NC contacts if not used, or deactivate them via the relative menu. Terminals with the same number are equal.



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12.1 SOFA1-SOFA2 or GOPAVRS self-controlled safety edge

Command		Function	Description
SOFA1-SOFA2 GOPAV		SAFETY TEST	Insert the SOFA1-SOFA2 or GOPAVRS device in the slot for plug-in boards AUX1 or AUX2. If the test fails, an alarm message appears on the display.
1 6	NC	SAFETY STOP	When selecting $\PP \to \ref{1} \cup \to \ref{1} \cup \cup \cup \cup \cup \cup \cup \cup$
1 — 8	NC	CLOSURE SAFETY DEVICE	When selecting $\PP \to \PP $
1 6	NC	CLOSING/ OPENING SAFETY DEVICE	When selecting $\PP \to GB \to SM$, connect the output contact of the safety device to terminals 1-6-8 on the control panel (in series with the photocell output contact, if installed). If $GB \to SM$, JG and JB cannot be PM or SM .

13. Outputs and accessories

Output Value of accessories		Description	
- + 	24V / 0.3A	Power supply to accessories Output for power supply to external accessories. NB: the maximum absorption of 0.3A corresponds to the sum of all terminals 1.	
	GOL148REA	If the ZENPRS radio receiver is used (868.35 MHz), connect the supplied antenna wire (90mm).	
+LP-	FLM FL24 24V / 25W	Flashing light The pre-flashing settings can be selected from the third level menu $\mathbb{AP} \to \mathbb{MO}$ and/or $\mathbb{AP} \to \mathbb{MC}$. To modify the operating mode of the LP output, refer to the selection $\mathbb{AP} \to \mathbb{F}$.	
AUX	SOFA1-SOFA2 GOPAVRS LAB9 BIXR2 BIXPR2 LAN7S	The control panel has a slot for plug-in command and safety cards. The action of the control card can be defined by selecting $\Box \subset \to AM$. When using slot-in radio boards, remove the RDX module. The display will show AV . WARNING: the plug-in board must be inserted and removed with the power supply disconnected.	

Output	Value of accessories	Description
RDX	6ZENRS ZENPRS	The control panel is fitted with a housing for modules of the 6ZENRS radio receiver type (433.92 MHz). Can be replaced with a module of the ZENPRS radio receiver type (868.35 MHz). When using slot-in radio boards, remove the RDX module. The display will show \mathbf{RV} . WARNING: the modules must be inserted and removed with the power supply disconnected.
СОМ	BIXM R2	COM - This allows the functioning configurations to be saved using the function $SF \rightarrow SV$. The saved configurations can be recalled using the function $SF \rightarrow RC$. COM - The storage module allows the remote controls to be stored. If the control panel is replaced, the storage module being used can be inserted in the new control panel. WARNING: the storage module must be inserted and removed with the power supply disconnected, and paying attention to the positioning direction.
BAT	SBU	BAT - Battery-powered operation. The batteries are kept charged when the power supply is on. If the power supply is off, the panel is powered by the batteries until the power is reestablish or until the battery voltage drops below the safety threshold. The control panel turns off in the last case. WARNING: the batteries must always be connected to the control panel for charging. Periodically check the efficiency of the batteries. NB: the operating temperature of the rechargeable batteries is from +5°C to +40°C.

14. Jumper setting

Jumper	Description	0FF	ON
JR1	Display mode selection.	Display mode. Only the values and parameters present can be displayed.	Maintenance mode. Only the values and parameters present can be displayed and modified. Activated maintenance mode is indicated by the permanent switching on of the right-hand point on the display.

For advanced control of battery-powered operation, refer to the menu E M.

Jumper	Description	1 30	1 30
JR5	Selection of power supply - auxiliary board.	AUX1 powered from 0-1. (default)	AUX1 powered from 0-30.



15. Adjustments



NB: depending on the type of automation and control panel, some menus may not be available.

15.1 Main menu

Display	Description
NZ	WZ - Wizard Quick configuration menu
RT	AT - Automatic Configurations. The menu allows you to manage the automatic configurations of the control panel.
BC	BC - Basic Configurations. The menu allows you to display and modify the main settings of the control panel.
BR	BA - Basic Adjustments. The menu allows you to display and modify the main adjustments of the control panel. NB: some settings require at least three operations before they are set correctly.
RO	RO - Radio Operations. The menu is used to manage the radio functions of the control panel (alarm management, diagnostics enabling, FW updating).
5F	SF - Special Functions. The menu allows you to set the password and manage the special functions in the control panel.
	CC - Cycles Counter. The menu allows you to display the number of operations carried out by the automation and manage the maintenance interventions.
EM	EM - Energy Management. The menu allows you to display and modify the energy saving settings and adjustments (Green Mode and battery management).
AP	AP - Advanced Parameters. The menu allows you to display and modify the advanced settings and adjustments of the control panel (limit switch mode, selection of devices connected to the terminals, disengagement duration adjustments, flashing light adjustments, etc.).
	NB: some settings require at least three operations before they are set correctly.

From the main menu you can access the second level menu as follows:

- use the and keys to select the required function
- press ENTER to confirm

After confirming the selection, you access the second level menu.

For each function of the main menu, there are also additional configurations that can be viewed by enabling the \prod function (see the following paragraph).



 $\ensuremath{\mathsf{NB}}\xspace$ to check if the parameters have actually been modified, quit the relative parameter and then access it again.

The modifications will take effect from the next operation.



15.2 Second level menu - AT (Automatic Configurations)

	Display	Description Selections available	
	IM	DM - Direction mode RT-opens to the right LF-open to the left	
	HØ	H0 - Predefined setting, residential use 0 This selection loads predefined values for certain standard parameters: AC - enabling of automatic closing : 1-2 C5 - step-by-step/opening command operation : Step-by-step RM - remote control operation : Step-by-step AM - AUX plug-in board operation : Step-by-step SS - Selection of automation status at start-up : open	
configuration	<u>H 1</u>	H1 - Predefined setting, residential use 1 This selection loads predefined values for certain standard parameters: AC - enabling of automatic closing : enabled TC - setting of automatic closing time : 1 minute C5 - step-by-step/opening command operation : Step-by-step RM - remote control operation : Step-by-step AM - AUX plug-in board operation : Step-by-step SS - Selection of automation status at start-up : closed	
AT - Automatic configurations		CO - Predefined setting, condominium use 0 This selection loads predefined values for certain standard parameters: AC - Enabling of automatic closure : enabled TC - setting of automatic closing time : 1 minute C5 - step-by-step/opening command operation : Opening RM - remote control operation : Opening AM - AUX plug-in board operation : Opening SS - Selection of automation status at start-up : closed	
	RJ	RD - Resetting of general settings (SETTINGS RESET) O 2" O 2"	
	RA	AA - Activation of additional configurable parameters for each function of the main menu.	



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15.3 Second level menu - BC (Basic Configurations)

		Display	Description	Select avail		
BC - Basic configurations	RE	AC - Enabling of automatic closure ON - Enabled 1-2 - Dependent on input 1-2		-	2	
	urations	25	SS - Selection of automation status at start OP - Open CL - Closed Indicates how the control panel considers the automation at the time of switch-on, or after a POWER RESET command.	0P		L
	sasic contigi	50	SO - Enabling of reversal safety contact functioning ON - Enabled OF - Disabled When enabled (ON) with the automation idle, if the contact 1-8 is operations are prevented. When disabled (OF) with the automation idle, if the contact 1-8 is oper operations are permitted.			N F
	N T	NI - Enabling of NIO electronic anti-freeze system ON - Enabled OF - Disabled When enabled (ON), it maintains the efficiency of the motor even at ent temperatures.	low ambi-		11	
		· • ·	NB: for correct operation, the control panel must be exposed to the bient temperature as the motors. The intervention temperature for NIO can be set by selecting $\mathbf{RP} \rightarrow$			F

15.3.1 Additional BC level parameters that can be configured (available with Π T \rightarrow Π Π enabled)

	Disp	lay	Description	Selec avail		
	Н	R	HR - Enabling of "operator present" function ON - Enabled OF - Disabled NB: Set HR → □N only if □ Y → I - Yand □ 5 → I - 3. WARNING: • If the OPERATOR PRESENT function is activated, make sure that noone is near the automation when an opening or closing command is given. • The actuation device for the OPERATOR PRESENT function must be placed within the visibility of the guided part but away from the moving parts. It must also be installed at a minimum height of 1.5 m and be placed out of the public's reach.	ΠN	<u>_</u>	F
BC		5	C5 - Operation of command associated with contact 30-5 1-5 - Step-by-step 1-3 - Opening	1-5	-	3
m	5	Ч	64 - Functioning of safety stop/closing command.1-4 - Closing1-6 - Safety stop	1- 4	-	5
	R	11	RM - Radio receiver operation 1-5 - Step-by-step 1-3 - Opening	1-5	-	3
	R	M	AM - Operation of AUX1 plug-in control board 1-5 - Step-by-step 1-3 - Opening	1-5	-	3
	11	P	MP - Start-up at maximum power ON - During start-up it increases the thrust on obstacles to maximum OFF - During start-up, the thrust on obstacles is the one adjusted by \mathbb{R} 1- \mathbb{R} 2.	<u> </u>		F
	P	P	PP - Setting step-by-step sequence from command 1-5. ON - Opening-Stop-Closing-Stop-Opening OF - Opening-Stop-Closing-Opening			F
	5	5	S5 - Duration of STOP in step-by-step sequence from command 1-5. ON - Permanent OF - Temporary			F



15.4 Second level menu - BA (Basic Adjustment)

	Display	Description	Selections available
	TC	TC - Setting of automatic closing time [s] It is set with different intervals of sensitivity. • from 0" to 59" with intervals of 1 second • from 1' to 2' with intervals of 10 seconds	0059 '
	RP	RP - Adjustment of partial opening measurement [%] Adjusts the percentage of operation in relation to the total opening of the automation. 10 - Minimum 99 - Maximum	10,99
tment	TP	TP - Setting of automatic closing time after partial opening [s] It is set with different intervals of sensitivity. • from 0" to 59" with intervals of 1 second • from 1' to 2' with intervals of 10 seconds	00,59 11,21
BA - Basic adjustment	ľΑ	VA - Opening speed [cm/s]	10,30
3A - Bas	ľ	VC - Closing speed [cm/s]	10,30
	R 1	R1 - Adjustment of thrust on obstacles and motor current during opening. [%] The control panel is fitted with a safety device which, when it detects an obstacle: - stops the movement and, if outside the obstacle detection area, performs a disengagement. The obstacle detection area during opening is determined by the type of limit switch installed. If there is no limit switch, it is determined according to the selection	0 0·9 9 50_

nt	Display	Description	Selections available
BA - Basic adjustment	R2	R2 - Adjustment of thrust on obstacles and motor current during closure. [%] The control panel is fitted with a safety device which, when it detects an obstacle: - reverses the movement during closure operations outside the limit area for detecting obstacles; - stops the movement during closure operations within the limit area for detecting obstacles. The obstacle detection area during closure is determined by the type of limit switch installed. If there is no limit switch, it is determined according to the selection	0 0 9 9

15.4.1 Additional BA level parameters that can be configured (available with Π T \rightarrow Π Π enabled)

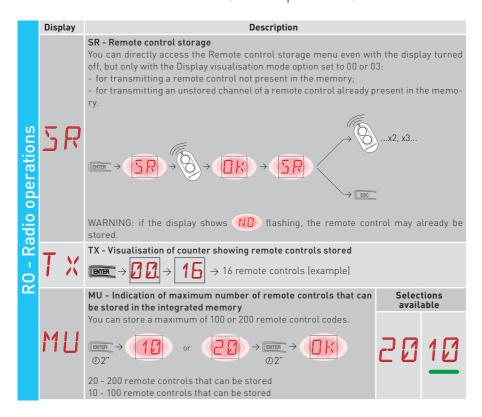
	Display	Description	Selections available
	IJΤ	DT - Adjustment of obstacle recognition time [s/100] 10 - Minimum 60 - Maximum NB: the parameter is adjusted in hundredths of a second.	10,50
	5 T	ST - Adjustment of start time [s] 0.5 - Minimum 3.0 - Maximum	0.5,3.0 2.0
	TA	TA - Adjustment of acceleration time during opening [s] 0.5 - Minimum 9.9 - Maximum	Ø.5,9.9 2.0
BA	TQ	TQ - Adjustment of acceleration time during closure [s] 0.5 - Minimum 9.9 - Maximum	Ø.5,9.9 2.0
	111	VM - Initial movement speed [cm/s] 00 - Minimum 15 - Maximum	DD 15
	TJ	TD - Adjustment of deceleration time during opening [%] Regulates the slope of the deceleration ramp during opening. 10 - Minimum 99 - Maximum	10,99
	ТШ	TU - Adjustment of deceleration time during closure [%] Regulates the slope of the deceleration ramp during opening. 10 - Minimum 99 - Maximum	10,99
		OB - Adjustment of deceleration distance during opening. [cm] Indicates the distance from the end of the opening stroke for the start of the deceleration ramp. 05 - Minimum 99 - Maximum	95,99



NB: make adjustments gradually and only after performing at least three complete operations to allow the control panel to be set correctly and detect any friction during operations.

14 - signal for batteries almost flat ON - output always active

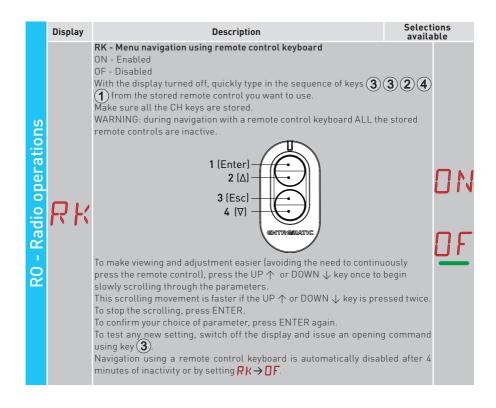
15.5 Second level menu - RO (Radio Operations)





WARNING: selecting MU \rightarrow 20 (200 remote controls), the configurations U 1 and U2 saved with the $5F \rightarrow 5V$ command will be lost. This also applies for the last configuration reloaded with RL. In addition, new configurations cannot be saved on U 1 and U2.





15.5.1 Additional RO level parameters that can be configured (available with $\Pi \to \Pi \Pi$ enabled)

	Display	Description Select available availab		
		C1, C2, C3, C4 $$ - Selection of CH1, CH2, CH3, CH4 function of stored remote control.	N	П
		NO - No setting selected 1-3 - Opening command		5
	T 1	1-4 - Closing command	-	3
		1-5 - Step-by-step command P3 - Partial opening command	1	
		LG - Command to switch the courtesy light on/off	j -	7
8	لہ !	1-9 - STOP command If even just one (any) CH key of the remote control is stored, the opening or step-	!_	
		by-step command is implemented.	I	٦
	-	NB: the $\begin{bmatrix} -3 \end{bmatrix}$ (opening) and $\begin{bmatrix} -5 \end{bmatrix}$ (step-by-step) options are available as alternatives, and depend on the selection $\begin{bmatrix} -1 \end{bmatrix} \begin{bmatrix} -5 \end{bmatrix} \begin{bmatrix} -5 \end{bmatrix}$	p	7
	LJ	If 2-4 CH keys of a single remote control are stored, the functions matched in		_
		the factory with the CH keys are as follows:		17
		 CH1 = opening/step-by-step command CH2 = partial opening command; 	_	
		CH3 = courtesy light on/off command CH4 = STOP command.	-	4



15.6 Second level menu - SF (Special Functions)

	Display	Description	
		CU - Visualisation of the firmware version on the control panel \rightarrow Release 1.1 (example)	
		SV - Saving user configuration on control panel storage module.	Selections
ions		$\begin{array}{c} \text{ENTER} \rightarrow \begin{array}{ c c c c c c c c c c c c c c c c c c c$	available
Funct	5V	By selecting $\mathbb{R} \bigcirc \to \mathbb{M} \sqcup \to 1 \bigcirc$ you can save up to 2 personalised configurations in memory positions $\sqcup 1$ and $\sqcup 2$ only with the storage module present on the control panel.	∐ 1
Special Functions		WARNING: if $R \bigcirc \to M \bigcirc \to 2 \bigcirc$ is selected, no user configuration can be saved on $\bigcirc 1$ and $\bigcirc 2$. WARNING: if the display visualises $\bigcirc 1$ flashing, the memory module may not be installed.	U2
SF-		RC - Configuration loading	
S	RL	$\begin{array}{c} \text{ENTER} \rightarrow \boxed{1} \rightarrow \boxed{1} \rightarrow \boxed{2} \\ \text{[example]} \rightarrow \boxed{1} \rightarrow \boxed{1} \end{array}$	∐ 1
		It's possible to load the user configurations previously stored \ref{log} 1 and \ref{log} on the memory module of the control panel.	U2

15.6.1 Additional SF level parameters that can be configured

	Displ	ay	Description
			SP - Setting the password
	5	5 P	NB: this can only be selected when the password is not set. Setting the password prevents unauthorised personnel from accessing selections and adjustments. You can delete the set password by selecting the sequence JR1=0N, JR1=0FF, JR1=0N.
			IP - Inserting the password
	Ţ	P	
			NB: this can only be selected when the password is set. When the password is not inserted, you can access the display mode regardless of the selection made with JR1.
Щ			When the password is inserted, you can access in maintenance mode.
S			EU - Deletion of user configurations and last configuration set in the storage module
	Ε	Ц	$ \begin{array}{c} \text{ENTER} \\ \text{© 2"} \end{array} $
			AL - Alarm counter
	R	L	Used to view, in sequence, the counters of alarms that have been triggered at least once (alarm code + number of times triggered). With and voucean scroll through all the counters and see all the alarms recorded.
	R	 	AH - Alarm log Used to view, in sequence, alarms that have been triggered (maximum 20). With and you can scroll through the entire alarm log.
			The display shows the alarm number and code, alternated. The highest number corresponds to the most recent alarm and the lowest number (0) corresponds to the oldest alarm.

15.7 Second level menu - CC (Cycles Counter)

	Display	Description
		CV - Display of total operations counter
Counter		
ğ		CP - Display of partial operations counter
Cycle Co	C P	
3		CH - Display of power supply hour counter
0 - 00		
		BH - Visualisation of counter for power supply hours via battery
	出出	

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15.7.1 Additional CC level parameters that can be configured (available with $\Pi T \rightarrow \Pi \Pi$ enabled)

	Display	Description Selections available
20	СЯ	CA - Setting the maintenance alarm (factory setting - alarm deactivated: 0.0 00. 00). You can set the required number of operations (regarding the partial operations counter) for signalling the maintenance alarm. When the set number of operations is reached, the alarm message appears on the display / 0. Example: Setting the maintenance alarm after 700 operations (00) (07) (00) Setting the maintenance alarm after 700 operations (00) (07) (00)
	0 A	OA - Selecting maintenance alarm display mode 00 - Visualisation on display (alarm message I/ ☑) 01 - Visualisation on flashing light (with the automation idle, 4 flashes are made and then repeated every hour) and on display (alarm message I/ ☑). 02 - Visualisation on "open gate" indicator light (with the automation closed, 4 flashes are made and then repeated every hour) and on display (alarm message I/ ☑).
	Z P	ZP - Reset of partial operations counter ©2" For correct functioning, you are advised to reset the partial operations counter: - after maintenance work; - after setting the maintenance alarm interval.

15.8 Second level menu - EM (Energy Management)

Ħ	Display	Description	Selec avail	
emer	Pl'	PV - Solar panel power supply (panels not supplied) ON - Enabled OF - Disabled		OF
EM - Energy management	E 5	ES - Energy-saving (disconnection of accessories connected to term when the automation is in standby) ON - Enabled (the red point on the right of the display flashes every 5+LP- is managed only for courtesy light). OF - Disabled Power supply disconnection mode is activated after 15 s with the ga or when the gate is idle and automatic closure is not enabled. The automation resumes its normal operation when a command is rethe radio board (6ZENRS-ZENPRS) or following a contact 30-5, 30-2 WARNING: if you use accessories that need to remain powered Energy Saving is enabled (e.g. LAN4 or GOPAV), set the jumper JR5 of the slot used on power supply 0-30.	te closed, eceived on 0. even with	0 N 0 F



15.8.1 Additional EM level parameters that can be configured (available with $\Pi \to \Pi \Pi$ enabled)

	Display	Description	Selections available
EM	LL	LL - Voltage threshold for indicating that batteries are almost flat (V) 17 - Minimum 24 - Maximum NB: it is set with an interval of sensitivity of 0.5 V shown when the decimal point on the right lights up.	17,24
		BT - Battery mode 00 - Anti-panic (performs the opening operation following a mains s ure. The automation opens but does not accept any other comm	11.7
	BT	the mains supply has been restored). O1 - Continuous operation - the last operation performed before corswitch-off will be an opening.	itrol panel
		02 - Continuous operation - the last operation performed before cor switch-off will be an closure.	itrol panel

15.9 Second level menu - AP (Advanced Parameters)

SIS	Display	Description	Selections available	
AP - Advanced Parameters	FΑ	FA - Selection of opening limit switch mode NO - None SX - Stop limit switch (after activation, the gate stops its movement) PX - Proximity limit switch (after activation, the gate continues as far as the end stop and any obstacle is considered a stop)	N 0	PX
AP - Advan	FC	FC - Selection of closing limit switch mode NO - None SX - Stop limit switch (after activation, the gate stops its movement) PX - Proximity limit switch (after activation, the gate continues as far as the end stop and any obstacle is considered a stop)	N D S ×	PX

	D: .			
	Display	Description	Selectio availab	
	16	D6 - Selection of device connected to terminals 1-6 NO - None PH - Photocells P41 - Photocells with safety test SE - Safety edge (if contact 1-6 opens, there is a disengagement of 10cm after the stop) S41 - Safety edge with safety test (if contact 1-6 opens, after the stop there is a disengagement of a duration depending on the selection ■P→■E	P 41 5 5 41	
	.	D8 - Selection of device connected to terminals 1-8 NO - None PH - Photocells	NO	
	11 12		P 41 3	של
eters		S41 - Safety edge with safety test	541	
AP - Advanced Parameters	R 9	R9 - Enabling automatic closing after command 1-9 (STOP). ON - Enabled OF - Disabled When enabled (ON), after a command 1-9, the automation carries out automatic closing (if enabled), after the set time.	ON	<u>J</u> F
Advar		68 - Selection of the device simultaneously connected to terminals 1-6 and 1-8 NO - None	11[]
AP -	68	SE - Safety edge S41 - Safety edge with safety test If different from NO, the simultaneous opening of inputs 1-6 and 1-8	58	-
		causes: - movement stop and reversal during a closing operation - movement stop and disengagement of a duration depending on the selection ₦₱→▮₤ during an opening operation	5 ({
	115	DS - Setting of display visualisation mode 00 - No visualisation 01 - Commands and safety devices with radio test Display of countdown to automatic closure. 02 - Automation status 03 - Commands and safety devices		1
	ר ת	NB: the setting 🚺 🐧 allows you to see when a radio transmission is received, for range checks.		3



NB: make adjustments gradually and only after performing at least three complete operations to allow the control panel to be set correctly and detect any friction during operations.



15.9.1 Additional AP level parameters that can be configured (available with Π T \to Π Π enabled)

	Display	Description	Selections available
АР	20	20 - Partial opening command of terminal 1-20 P3 - Partial opening command 1-2 - Enabling of automatic closure 1-9 - Stop input	P31-2
		LU - Setting the courtesy light switch-on time (s) To enable the parameter, set the selection ∄ → F F as "courtesy light". It is set with different intervals of sensitivity.	N
	LU	NO - Disabled - from 01" to 59" with intervals of 1 second - from 1' to 2' with intervals of 10 seconds - from 2' to 3' with intervals of 1 minute ON - Permanently enabled (switched off via remote control) NB: the courtesy light switches on at the start of each operation.	7
	L 6	LG - Switch-on time for independently commanded courtesy light [s] To enable the parameter, set the selection	NU Ø 159 !'→2' 2'→3'
		operation, but can be commanded separately using the special remote control key.	
	PT	PT - Fixed partial opening ON - Enabled OF - Disabled If ON, a partial opening command given on the partial opening position is ignored. With contact 1-20 closed (for example with the timer or manual selector), the gate will partially open. If it is then fully opened (command 1-3) and reclosed (even with automatic closure), it will stop at the partial opening position.	
	IJΕ	DE - Disengagement setting if an edge is triggered [cm] Regulates the disengagement distance when an edge (active or passive) is triggered during opening or closure. 00 - Deactivated 20 - Maximum	00,20
	JO	DO - Setting of disengagement on stop during opening [mm] Regulates the distance of the disengagement on the mechanical opening stop. 00 - Disabled 15 - Maximum NB: not active if	07 15 07

	Disp	lay	Description	Selec avail		
	I		DC - Setting of disengagement on stop during closure [mm] Regulates the distance of the disengagement on the mechanical opening stop. 00 - Disabled 99 - Maximum NB: not active if F C → 5 X		1	5
		- 4	OT - Selection of type of obstacle identification 00 - Overcurrent or gate stopped 01 - Overcurrent 02 - Door stopped NB: the obstacle identification for "door stopped" is faster but more sensitive.			1
			CR - Stroke estimate correction [%] DO NOT USE (diagnostic purposes only)	- 9	+!	3
АР	5		SM - Selection of operating mode of device connected to terminals 1-6 00 - During the operation, the opening of the safety contact stops the (with disengagement if] 6 \rightarrow 5 \(\end{certa} \) / 5 \(\frac{1}{3} \) . 01 - During the operation, the opening of the safety contact stops the (with disengagement if] 6 \rightarrow 5 \(\end{certa} \) / 5 \(\frac{1}{3} \) . When the contact closes again, tion is resumed. 02 - During the operation, opening of the safety contact stops the move disengagement if] 6 \rightarrow 5 \(\end{certa} \) / 5 \(\frac{1}{3} \) . When the contact closes again, a operation is performed. 03 - During the closing operation, the opening of the safety contact removement. During the opening operation, the safety device is ignored. 04 - During the opening operation, the opening of the safety contact movement (with disengagement if] 6 \rightarrow 5 \(\frac{1}{3} \) . When the contact close operation is resumed. During the closing operation, the safety contact stops the movement. During the opening operation, the opening of the safety contact stops the movement (with disengagement if] 6 \rightarrow 5 \(\frac{1}{3} \) . S \(\frac{1}{3} \)	movement movement the opera- ement (with an opening everses the t stops the oses again, afety device ops and re- safety con-		61123456
	T	N	TN - Setting of intervention temperature for the NIO electronic anti- freeze system and automatic HS ramps [°C] This value does not refer to the ambient temperature, but to the inter- nal control panel temperature.		5	
	T		TH - High temperature protection enable. If ON, the automatic reclosing time is extended when the maximum switchboard temperature is reached. If the condition persists, all the controls are disabled.			F
	Н		HS - Automatic ramp adjustment ON - Enabled OF - Disabled When enabled (ON), at low ambient temperatures the start time \$\frac{7}{10}\] up to the maximum value and the acceleration time \$\frac{7}{10}\] and \$\frac{7}{10}\] din the minimum value. NB: for correct operation, the control panel must be exposed to the si ent temperature as the motors. The intervention temperature can be set with the selection \$\frac{1}{10} \rightarrow \frac{1}{10}\]	ninishes to ame ambi-	0	N F



16. Signals visualised on the display

- NB: depending on the type of automation and control panel, certain visualisations may not be available.
- 16.1 Display of automation status
- NB: the automation status display mode is only visible with Display visualisation mode set to 02.
- AP > IS > 02

Display	Description			
]M▶RT				
	Automation closed			
	Automation closed Release door open			
1	Automation open			
. 1	Automation open Release door open			





Display	Description				
	IMDLF				
	Automation closed				
<u> </u>	Automation closed Release door open				
1	Automation open				
1.	Automation open Release door open				
]	Automation stopped in intermediate position				
] .	Automation stopped in intermediate position Release door open				
0 0	Automation closing				
D	Automation that slows down during closing.				
1 1	Automation opening				
1	Automation that slows down during opening.				

16.2 Display of safety devices and commands

NB: the safety device and command display mode is only visible with Display visualisation mode set at 01 or 03.

AP > 15 > 0 1	AP > 15 > 03
---------------	--------------

Display	Description	Display	Description
1-2	1-2 - Automatic closing activation command	58	68 - Selection of the device simultane- ously connected to terminals 1-6 and 1-8
1-3	1-3 - Opening command	1-5	1-6 - Safety device with opening and closing stop
1-4	1-4 - Closing command	5 1.	S1 Detection of stop during closure
1-5	1-5 - Step-by-step command	1-8	1-8 - Safety with closing reversal
P3	P3 - Partial opening command.	1-9	1-9 - STOP command
48	4P - Closing command with operator present	3P	3P - Opening command with operator present
RX	RX - Radio reception (of any memorised key of a transmitter present in the memory)	52.	S2 Detection of stop during opening
	NX - Radio reception (of any non-memorised key)		00 Obstacle detection area reached during opening
NX	NB: with the selection ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Ο C.	OC. Obstacle detection area reached during closure
EX	EX - Rolling-code radio reception out of sequence	RV	RV - Enabling/disabling of built-in radio receiver via RDX
EP	EP - Radio reception not complying with the parameter configuration \square \rightarrow \square	MO	MQ - Learning operation of mechanical end stops in progress
Ε×	CX - Command received from AUX1 board	HT	HT - Heating of the motors (NIO function) in progress
F C.	FC Closure limit switch	H5	HS - Sharp NIO start-up
FA.	FA Opening limit switch	J 1	JR1 - Variation of the JR1 jumper status
711	SW - Release door open. When the release door is closed, the control panel performs a RESET (alarm 💥 💥). It is possible to ignore the reset by holding down the ESC & DOWN keys for 3 seconds	AV	AV - Function anti-violation.
714	until the SW stops flashing. If the RESET is disabled, make sure not to move the gate manually. NB: If you return to the menu, the reset is reactivated.		

16.3 Visualisation of alarms and faults

WARNING: the visualisation of alarms and faults is possible with any visualisation selection. The signalling of alarm messages takes priority over all other displays.

Type of alarm	Display	Description	Operation
	M3	M3 - Automation blocked	Check the mechanical parts.
	MH	M4 - Motor short circuit	Check connection of motor.
	MB	M8 - Stroke too long	Check the rack / chain belt
	M9	M8 - Stroke too short	Manually check that the gate moves freely.
	MB	MB - Absence of motor during an operation.	Check connection of motor.
Œ.	ΜIJ	limit switch If the limit switch is configured but can't be found, each stop (from the OB deceleration start point) is seen as an obstacle and indi- cated with MD.	
Mechanical alarm	ME	limit switch If the limit switch is configured but can't be found, each stop (from the CB deceleration start point) is seen as an obstacle and in- dicated with ME.	Check connection of the closure limit switch.
	MI	MI - Detection of fifth consecutive obstacle.	Check for the presence of permanent obstacles along the stroke of the automation.
	ML	ML - Inverted limit switches	Check the positioning and connection of the limit switches. Also check the motor connection.
		OD - Obstacle during opening	Check for the presence of obstacles along the automation stroke.
	OE	OE - Obstacle during closure	Check for the presence of obstacles along the automation stroke.
	0F	OF - Automation blocked on opening	Check the mechanical parts and make sure there are no obstacles along the automation stroke.
	06	OG - Automation blocked on closure	Check the mechanical parts and make sure there are no obstacles along the automation stroke.
Power supply Settings	56	S6 - Incorrect setting of safety device test	Check the configuration of parameters $16.19.69$. If $69 \rightarrow 54$, 16 and 19 cannot be 94 or 54 .



WD - Firmware reset not commanded

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17. Troubleshooting

Duckless	Describbe source	Alam	O
Problem	Possible cause	Alarm signalling	Operation
The control panel does not switch on	No power supply.		Check the power supply cable and the relative wiring
The automation does not open or	No power.		Check power supply cable.
close.	Short circuited accessories	I5	Disconnect all accessories from termi- nals 0-1 (a voltage of 24V= must be pre- sent) and reconnect them one at a time. Contact Technical Service
	Blown line fuse.		Replace fuse.
	Safety contacts are open.	1-6 1-1 68	Check that the safety contacts are closed correctly (NC).
	Safety contacts not correctly connected or self-controlled safety edge not functioning correctly.	AØ 1-1 A 1 1-1 A 3 61	control panel and connections to the
	Photocells activated.	1-5 1-1	Check that the photocells are clean and operating correctly.
	The automatic closure does not work.		Issue any command. If the problem persists, contact Technical Service
	Motor fault	М В М Ч	Check motor connection, if the problem persists, contact Technical Service.
	Mechanical fault	EM BM	Check the rack and transmission chain, and/or the mechanical parts.
	Release microswitch open	2M	Check that the hatch is closed correctly and the microswitch makes contact.
	Faulty control panel	17 IE 18 IN 18 IE 18 IE	1
	Both limit switches are active.	FR. FC.	Check the connection of the limit switches.
The external safety devices are not activated.	Incorrect connections between the photocells and the control panel.		Check that I - 5 / I - 8 is displayed Connect NC safety contacts together in series and remove any jumpers on the control panel terminal board.
			Check the setting of $AP \rightarrow JB$ and $AP \rightarrow JB$.
The automation opens/closes briefly and then stops.	There is a presence of friction.	MI M9 IC	Manually check that the automation moves freely and check the R 1/R2 adjustment Contact Technical Service



Problem	Possible cause	Alarm signalling	Operation
has limited range	The radio transmission is impeded by metal structures and reinforced concrete walls.		Install the antenna outside.
and does not work with the automation moving.			Replace the transmitter batteries.
The remote control does not work	No storage module or incorrect storage module.	RØ	Switch the automation off and plug in the correct storage module.
		R3 R5	Check the correct memorisation of the transmitters on the built-in radio. If there is a fault with the radio receiver that is built into the control panel, the remote control codes can be read by removing the storage module.
The flashing light is not working	The wires of the flashing light are detached or have short circuited.	A9	Check the connections. If the problem persists, contact Technical Service.

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