



IP2437EN • 2024/12/04



Ditec ION4B - ION6B

Sliding gates

(translation of the original instructions)

GENERAL SAFETY PRECAUTIONS FOR THE USER

WARNING! Important safety instructions • Please follow these instructions carefully • Failure to observe the information given in this manual may lead to severe personal injury or damage to the equipment • Keep these instructions for future reference.



WARNING! Disconnect power supply before any cleaning or maintenance operation • This manual and those for any accessories can be downloaded from www.ditecautomations.com

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. Wrong installation could be dangerous • Before installing the product, make sure it is in perfect condition • 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 • Do not install the product in explosive areas and atmospheres: the presence of inflammable gas or fumes represents a serious safety hazard • Make sure that the temperature range indicated in the technical specifications is compatible with the installation site • Before installing the motorization device, make sure that the existing structure, as well as all the support and guide elements, are up to standards in terms of strength and stability. Verify the stability and smooth mobility of the guided part, and make sure that no risks of fall or derailment subsist. Make all the necessary structural modifications to create safety clearance and to guard or isolate all the crushing, shearing, trapping and general hazardous areas • The motorization device manufacturer is not responsible for failure to observe Good Working Methods when building the frames to be motorized, or for any deformation during use • The safety devices (photocells, safety edges, emergency stops, etc.) must be installed taking into account the applicable laws and directives, Good Working Methods, installation premises, system operating logic and the forces developed by the motorized door or gate • The safety devices must protect against crushing, cutting, trapping and general danger areas of the motorized 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 motorized

door or gate • Before connecting the power supply, make sure the plate data correspond to those of the mains power supply. An omnipolar disconnection switch with a contact opening distance of at least 3 mm must be fitted on the mains supply. Check that there is an adequate residual current circuit breaker and a suitable overcurrent cutout upstream of the electrical installation in accordance with Good Working Methods and with the laws in force • When requested, connect the motorized door or gate to an effective earthing system that complies with the current safety standards • Before commissioning the installation to the end user, make sure that the automation is adequately adjusted in order to satisfy all the functional and safety requirements, and that all the command, safety, and manual release devices operate correctly • During maintenance and repair operations, cut off the power supply before opening the cover to access the electrical parts • The

protection cover of the operator must be removed by qualified personnel only • The electronic parts must be handled using earthed antistatic conductive arms. The manufacturer of the motorization declines all responsibility if component parts not compatible with safe and correct operation are fitted • 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 motorized door or gate, and must provide the user with the operation and safety instructions.

Declaration of incorporation of partly completed machinery (Directive 2006/42/EC, Annex II-B)

We, ASSA ABLOY Entrance Systems AB Lodjursgatan 10 SE-261 44 Landskrona Sweden,

Declare, under our sole responsibility, that the type of equipment with the name:

Ditec ION4B-6B automation for swing gates

Complies with the following directives and their amendments:

2006/42/EC Machinery Directive (MD), regarding the following essential health and safety requirements: 1.1.2, 1.1.3, 1.2.1, 1.2.2, 1.2.3, 1.2.4.2, 1.2.6, 1.3.9, 1.4.3, 1.7.2, 1.7.3, 1.7.4, 1.7.4.1, 1.7.4.2.

2014/30/EU Electromagnetic Compatibility Directive (EMCD)

2014/53/EU Radio Equipment Directive (RED)

2011/65/EU Restriction of Hazardous Substances (RoHS 2)

2015/863/EU Restriction of Hazardous Substances (RoHS Amendment 2)

Harmonised European standards which have been applied:

EN IEC 55014-2:2021 BS EN IEC 55014-2:202
EN IEC 61000-6-1:2019 BS EN IEC 61000-6-1:2019
EN IEC 61000-6-3:2021 BS EN IEC 61000-6-3:2021
ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-3 V2.3.2
ETSI EN 301 489-17 V3.2.4 ETSI EN 300 220-1 V3.1.1
ETSI EN 300 220-2 V3.2.1 ETSI EN 300 328 V2.2.2

EN IEC 62311:2020

Other standards or technical specifications which have been applied:

EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A2:2019 + A14:2019 + A15:2021

BS EN 60335-1:2012 + A15:2021 EN 60335-2-103:2015

BS EN 60335-2-103:2015 EN IEC 62368-1:2020 + A11:2020 + AC:2020

IEC 62368-1:2018 + COR1:2020

The manufacturing process guarantees that the equipment complies with the technical documentation.

Do not put equipment into service until the installed finished Automatic Entrance System has been declared compliant with Directive 2006/42/EC on Machinery.

Responsible for the technical documentation:

Matteo Fino Ditec S.p.A. Largo U. Boccioni, 1 21040 Origgio (VA) Italy

Signed on behalf of ASSA ABLOY Entrance Systems AB by:

Place Date Signature Position
Origgio 2024/12/04 Matteo Fino CEO Ditec

Matter for

UK Declaration of Conformity

We:

ASSA ABLOY Entrance Systems AB Lodjursgatan 10 SE-261 44 Landskrona Sweden

Declare under our sole responsibility that the types of equipment with names:

Ditec ION4B-6B automation for swing gates

Complies with the following directives and their amendments:

- Supply of Machinery (Safety) Regulations 2016
- Electromagnetic Compatibility Regulations 2016
- Radio Equipment Regulations 2017
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (RoHS)

Harmonized European standards that have been applied:

EN IEC 55014-2:2021

EN IEC 61000-6-1:2019

EN IEC 61000-6-3:2021

EN IEC 61000-6-3:2021

ETSI EN 301 489-1 V2.2.3

ETSI EN 301 489-17 V3.2.4

ETSI EN 300 220-2 V3.2.1

ETSI EN 300 328 V2.2.2

EN IEC 62311:2020

Other standards or technical specifications that have been applied:

EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A2:2019 + A14:2019 + A15:2021

BS EN 60335-1:2012 + A15:2021 EN 60335-2-103:2015

BS EN 60335-2-103:2015 EN IEC 62368-1:2020 + A11:2020 + AC:2020

IEC 62368-1:2018 + COR1:2020

The manufacturing process ensures the compliance of the equipment with the technical file.

Responsible for technical file:

Matteo Fino Ditec S.p.A. Largo U. Boccioni, 1 21040 Origgio (VA) Italy

Signed for and on behalf of ASSA ABLOY Entrance Systems AB by:

Place Date Signature Position
Origgio 2024/12/04 Matteo Fino CEO Ditec

Mattes Ans

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Key



This symbol indicates instructions or notes regarding safety, to which special attention must be paid.

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This symbol indicates useful information for the correct functioning of the product.

Default values

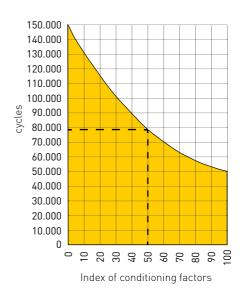
1. Technical data

	Ditec	ION4B	Ditec ION6B	
Maximum stroke	20 m			
Maximum gate weight	40	00 kg	600 kg	
Gate speed		0,1 ÷	0,3 m/s	
Thrust	200 N nomina	li 600 N Spunto	300 N nominali 800 N Spunto	
Power supply	100 - 240	V~, 50-60 Hz	100-120 V~ / 200-240 V~ (selectable by switch), 50-60 Hz	
Fuse	In case of 12	0 V power supply, sw	itch the selector of the power supply unit	
Power	T3	3.15A	T5A	
Standby	10	00 W	150 W	
Service class		< 0,6 W (unplug	ged accessories)	
Intermittence			NSIVE 150.000 cycles)	
Cycles / hour *			in (T= 25°C) ₀ (T= 25°C)	
Continuous cycles $_{st}$		40 (T	= 25°C)	
Lifespan		(= 25°C)	
Usage temperature (T)) cycles depending ct durability charts)	on the conditions indicated in the	
Degree of protection	-20°C +55°C			
Motor output		I	244	
Power supply to accessories		24V 	10A max	
Control panel		24V 	0,3A max	
Radio frequency	LCU50DC		J50DC	
Storable radio codes	433.92 MHz ($RO \rightarrow FO \rightarrow 43$) - default 868.35 MHz ($RO \rightarrow FO \rightarrow 85$)			
Noise level LpA	RCB100E receiver module included			
Codici radio	cod. BIXMR2	100= (₽ : → M: -	→ MU / MO)	
memorizzabili	COU. DIAMRZ	200= (₩0 → ₩0 -	→ *** / 20)	
Livello di rumore L _{PA}			dB (A)	
* Indicative cycles co	onsidering a 6 m v	ving and factory set	tings (default speed of 20 cm/s).	

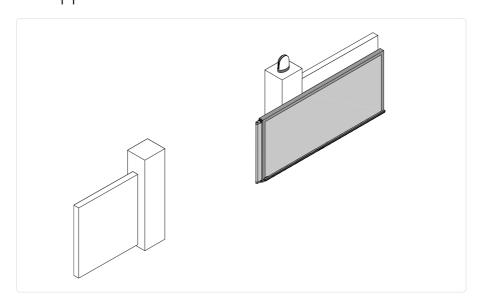
* Indicative cycles considering a 6 m wing and factory settings (default speed of 20 cm/s). ION4B / ION6B allows a maximum speed of 30 cm/s (configurable). A cycle is considered an opening followed by a closing.

Index of conditioning factors			
		ION4B	ION6B
	>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 <1	00mm	1	0
Saline environment	1	0	
Safety edge installe	1	0	
R1/R2 > default		1	0
VA/VC > default OC/CB < default		1	0

Example of lifespan calculation for ION4B		
Gate wing weight>250Kg	20	
Saline environment	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)		



2. Applications of use



Operating instructions

Use: For single-family/multi-family or commercial entrances with heavy driveway or pedestrian use.

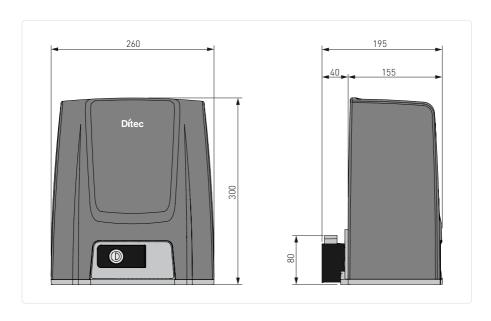
- The class of service, usage times and number of consecutive cycles are suggestions. They are statistically measured under average usage conditions and cannot be certain for every single case.
- For each automatic entrance, there are variables such as friction, balancing and environmental
 conditions that can substantially change the operating life and quality of the automatic entrance
 or some of its components (including the automated mechanisms). It is up to the installer to
 implement safety factors appropriate for each particular installation.

4. Machinery Directive

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

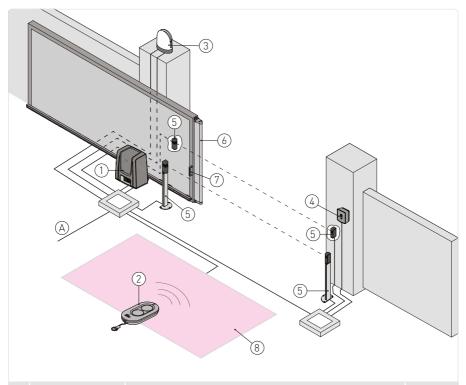
- prepare the technical documentation, which must contain the documents indicated in Annex V of the Machinery Directive (the technical documentation must be kept and made available to the competent national authority for at least ten years, starting from the date of construction of the motorised door);
- draw up the EC statement of conformity according to Annex II-A of the Machinery Directive and hand it over to the customer;
- affix the CE marking to the motorised door in accordance with point 1.7.3 of Annex I of the Machinery Directive.

5. Dimensions



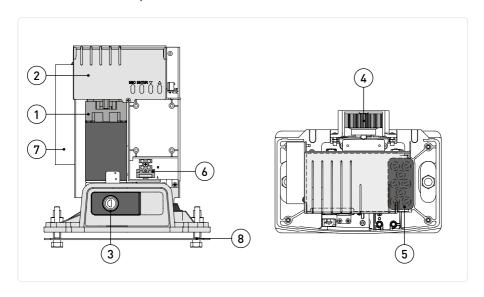
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6. Standard installation



Ref.	Code	Description	Cable	
1	Ditec ION4B - ION6B	Actuator ION with LCU50DC control panel	3G x 1.5 mm²	
Α		Connect the power supply to a type-approved omnipolar switch, with a contact opening distance of at least 3mm (not supplied). See chapter 6. The connection to the mains must follow an independent path, separate from the connections to the control and safety devices.		
2	ZEN	Transmitter	/	
	FLM	Flashing light	2 x 1 mm ²	
3	FL24	Antenna (integrated in the flashing light)	RG-58 coax cable (50 Ω)	
	AXK4	Digital combination wireless keypad	/	
4	AXK5M AXK5N AXK5NM AXK5NI	Wall-mounted key-operated selector switch with European cylinder Semi-recessed key-operated selector switch with European cylinder Wall-mounted key-operated selector switch without cylinder Semi-recessed key-operated selector switch without cylinder	4 x 0.5 mm²	
	AXR7	RFID reader unit	$5 \times 0.5 \text{ mm}^2$	
5	LIN2 - LIN2B AXP2 - LAB4	Photocells	4 x 0.5 mm²	
6	SOFAP20 - SOF2M20 SOF3M20 - SOFA15 SOFA20-SOFA25	Safety edge	2 x 0,5 mm² min	
7	GOPAV	Radio system for sensitive edges	/	
8	LAB9	Magnetic loop	2 x 1,5 mm ²	

7. Main components



Ref.	Descripción
1	Motor
2	Control panel
3	Key release
4	Pinion
5	Cable inlet
6	Power supply terminal and fuse
7	Power supply
8	Anchorage base

7.1 Manual release label

In case of failure or power failure, insert and turn the key clockwise, open the door fully. Manually open the gate.

To re-lock the gate, close the door, turn the key counterclockwise and remove the key.







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8. 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.

8.1 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.



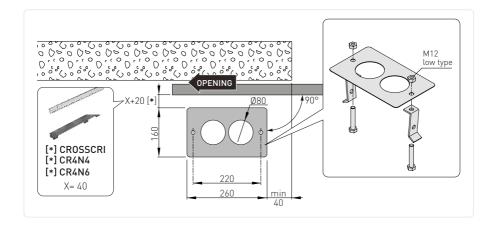
WARNING: Make sure that the gate can not exit the sliding guides and fall. Make sure that the protection system and any manual release function correctly.

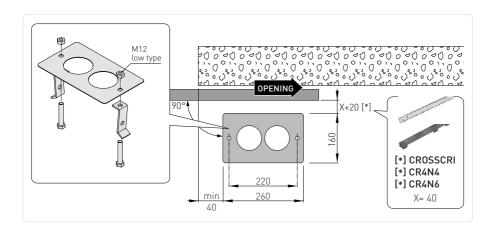
8.2 Base plate position

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.



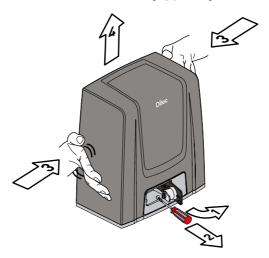
NOTE: if the concrete base has already been made, base plate can be fixed using M8 plugs (not supplied).

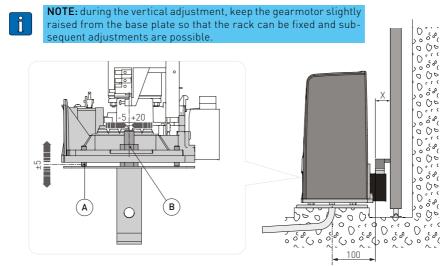




8.3 Gearmotor installation

- Release the gearmotor [1] (see OPERATING INSTRUCTIONS).
- Loosen the front screw [2] and remove the casing by pressing on its sides [3-4].



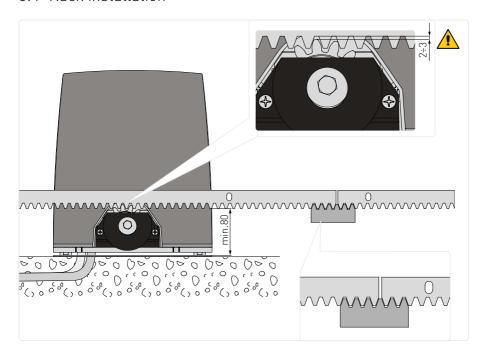


- Place the gearmotor on the base plate.
- Adjust the gearmotor horizontally by sliding it along the slots of the gearmotor base and vertically with four levelling screws [A].
- After adjusting, fix the gearmotor using screws [B].



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.

8.4 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.



NOTE: 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.

8.5 Operation with virtual encoder

ION4B-ION6B 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 (parameters $RB \to DB$; $RB \to DE$) to facilitate manual release of the gearmotor.

8.6 Installation of optional accessories

8.6.1 Magnetic limit switches (ref. NES100FCM)



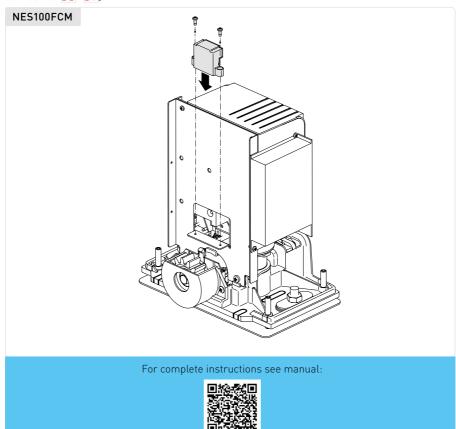
NOTE: The limit switch kit is used to stop the gate before it reaches the opening and closing mechanical stops. With a limit switch installed, slowdown is carried out at regulated power to overcome possible friction.

To position the limit switches, you can use the menu $\mathbb{Z} \to \mathbb{Z}$.

The display shows the status of the limit switches:

- FR: opening limit switch configured and activated;
- FE: closing limit switch configured and activated;
- HE: (both parts of display active): opening limit switch not configured and activated;
- RD: (no part of display active): closing limit switch not configured and activated;
- [gentral part of display active]: no limit switch activated.

With the limit switches configured as STOP (ER = 5%; EC = 5%) 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 = 0E].

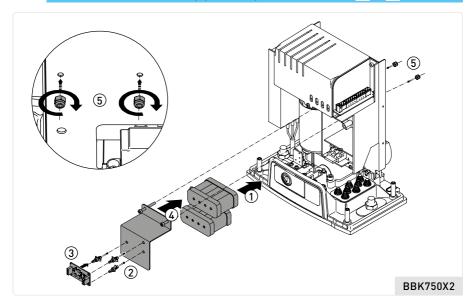


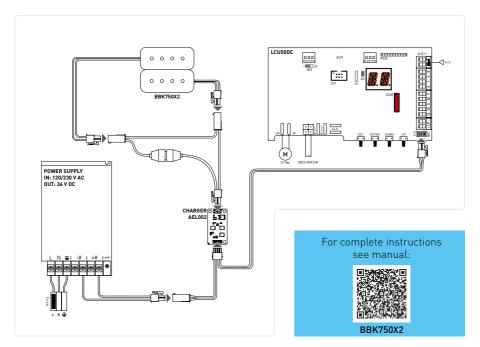
NES100FCM

8.6.2 Battery kit (ref. BBK750X2)

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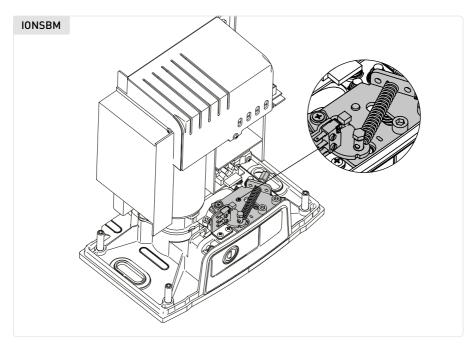
NOTE: The battery kit guarantees operation if there is a power cut. For advanced control of battery-powered operation, refer to the $IC \rightarrow II$ menu.

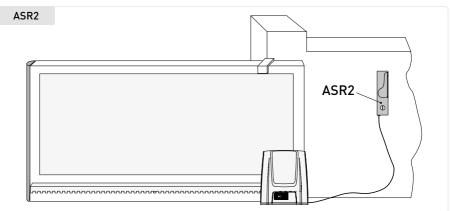




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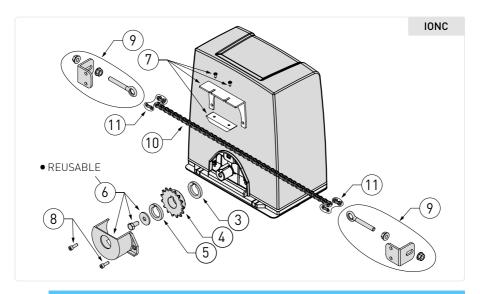
8.6.3 Remote release handle (ref. IONSBM-ASR2)



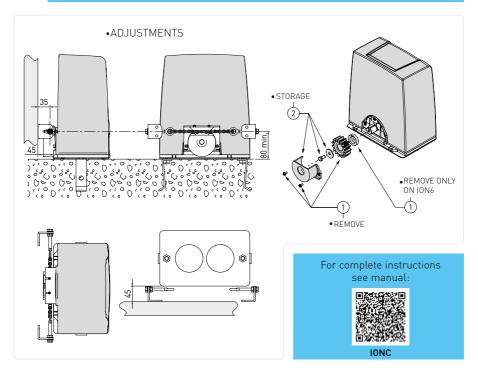




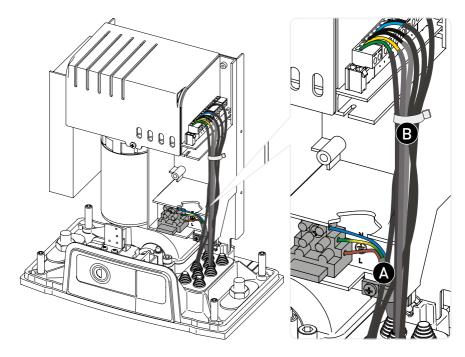
8.6.4 Chain kit (ref. IONC)



NOT INCLUDED - 1pcs, roller chain DIN8187 ISO/R 606 ISO standard 081 - 2pcs, spring link clip ISO standard 081



9. Electrical connections



Before connecting the power supply, make sure that the data on the plate correspond to the electricity distribution network data. Provide an omnipolar switch/disconnector on the power network with a contact opening distance of 3 mm or more. Check that there is a suitable residual-current device and surge protector upstream of the electrical system. Use an H05RN-F 3G1.5 electrical cable and connect it to terminals L (brown) and N (blue) inside the automation system. Connect the earth cable \bigoplus (yellow/green) to the earth terminal. Secure the cable by means of the cable clamp (A) and only unsheathe it at the terminal.



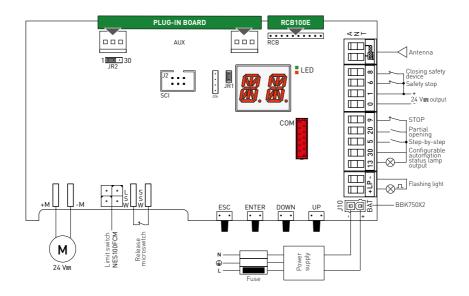
ATTENTION: always observe L-N polarity when connecting to the mains and close all unused clamps.

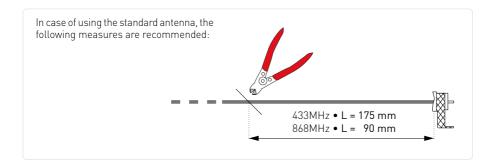
Secure the cable by means of the cable clamp (A) and only unsheathe it at the terminal. Connections to the electrical distribution network and any other low-voltage conductors (120 V AC - 230 V AC), in the section outside the automation system, must be made with corrugated pipes that are independent and separate from the path of connections to the control and safety devices (SELV= Safety Extra Low Voltage). Make sure there are no sharp edges that could damage the power cord.



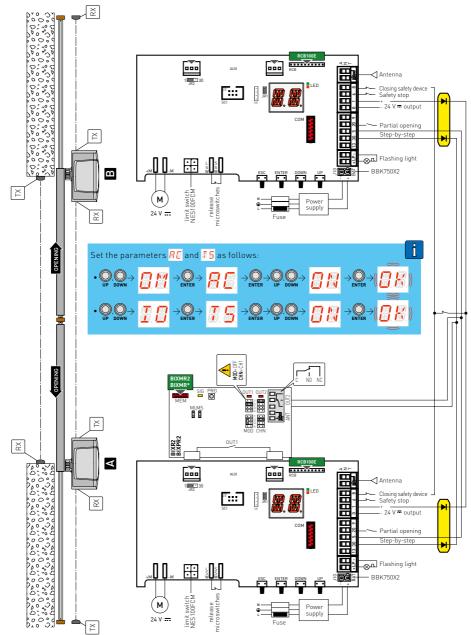
ATTENTION: Ensure that the mains connection cables, any other low-voltage cables (120 V AC - 230 V AC), and safety extra-low voltage safety accessory connection cables in the portion located inside the product are kept well separated from the gear motor body (B).

10. LCU50DC card





10.1 ION4B-6B parallel installation layout



WARNING: In case of parallel installation, Bluetooth and WiFi cannot be used.

11. Commands and safety device



NOTA: You are advised to read paragraph 13 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 E5, E3, E4, 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 $E5 \rightarrow BH$.



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.

11.1 Commands inputs

	Function	Command	Description
	STEP-BY-STEP	30 5	When selecting $I0 \to T5 \to F5$, the closure of the contact NO activates a sequential opening or closing operation: opening-stop-closing-opening.
NO			WARNING : if automatic closure is enabled, the stop mode is selected by $@m \to 55$.
			The "opening-stop-closing-opening" sequence can be changed to "opening-stop-closing-stop-opening" by selecting $@n \to PP$.
	OPENING		When selecting $10 \to 15 \to 5$, the closure of the contact activates an opening operation
NC	STOP	309	The opening of the safety contact causes the current operation to stop. If $\underline{rg} \to \underline{\rhog} \to \underline{gp}$, automatic closure is disabled when contact 30-9 recloses. If $\underline{rg} \to \underline{\rhog} \to \underline{gg}$, automatic closure is enabled when contact 30-9 recloses.
			NOTE: the flashing light flashes.
NO	PARTIAL OPENING	3020	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.
NC	AUTOMATIC CLOSURE	3020	Selecting $I @ \rightarrow 2 @ \rightarrow P ?$, the permanent closure of the contact enables automatic closure if $@M \rightarrow RE \rightarrow P ?$.

11.2 Safety inputs

	Function	Command	Description
	SAFETY TEST	GOPAV	Insert the GOPAVRS device in the slot for plug-in boards AUX. To activate the safety test, appropriately configure the parameters $I\mathcal{B} \to \mathcal{B} \in I\mathcal{B} \to \mathcal{B} \mathcal{B}$ If the test fails, an alarm message appears on the display.
NO	CLOSURE	1 6	When selecting $\ref{10} \to \ref{9} \to \ref{9}$, closing the contact activates a closing operation.
NC	SAFETY STOP	TY STOP 1 — t— 6	When selecting $TC \to BY \to FB$, opening of the safety contact stops and prevents any movement.
			NOTE: to set different safety contact functions, see the $10 \rightarrow 5m$ parameter settings.
NC	CLOSING SAFETY DEVICE	1 — 1 8	The opening of the NC contact triggers a reversal of the movement (reopening) during the closing operation: When selecting $\overline{I0} \to 50 \to 0$ N, with the automation idle (gate closed or partially open) all operations are prevented. When selecting $\overline{I0} \to 50 \to 0$ F, with the automation idle (gate closed or partially open) opening operations are permitted.
NC	CLOSING/ OPENING SAFETY DEVICE	1 6 8	The opening of the safety contact stops and prevents any movement. NOTE: During the closing operation, the opening of the safety contact stops and reverses the movement. During the opening operation, the opening of the safety contact stops the movement

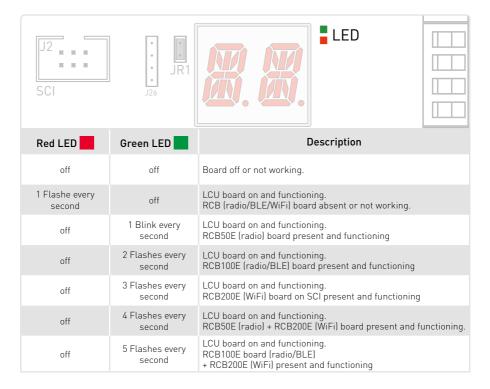
12. Outputs and accessories

Function	Output	Value of accessories	Description		
Power	同日		Output for power supply to external accessories.		
supply to accessories	0 1	24 V / 0.3 A	NOTE: the maximum absorption of 0.3 A corresponds to the sum of all terminals 1.		
Configurable output	+LP-	24 V 25 W (1 A)	Factory configured output $\[P\]$ as ON-OFF flashing lifht $\[P\]$ $\[P\]$ $\[P\]$ The pre-flashing settings can be selected from the menu $\[P\]$ $\[P\]$ $\[P\]$ and/or $\[P\]$ $\[P\]$ $\[P\]$ $\[P\]$ To modify the operating mode of the LP output, refer to the selection $\[P\]$ $\[P\]$ $\[P\]$.		
Configurable output	13 30	24 V 2 W (0.1 A)	Output 30-13 factory configured as proportional gate open indicator light. 13 \rightarrow 85. To change the operation mode of output 13 refer to the selection 18 \rightarrow 13.		
		nnecting highe	er loads, it is recommended to use an interface relay with external		
Radio an- tenna		A N T	When using the standard antenna, the following measurements are recommended: 433 MHz (175 mm) - 868 MHz (90 mm). Use a RG-58 type coaxial cable (50 Ω) to connect an external antenna (ref. GOL148REA).		
Plug-in accessory seat	AUX	BIXR2 BIXPR2 BIXLR42 LAB9 LAN7S GOPAVRS	The control panel has a slot for plug-in command and safety cards. The action of the control card can be defined by selecting $\mathbb{R} \to \mathbb{R}^n$. When using slot-in radio boards, remove the RX module. The display will show \mathbb{R}^n .		
Radio receiver module	RCB	•••••	Radio receiver module RCB100E (as standard) configurable from control panel: - 433.92 MHz ($\cancel{R0} \rightarrow \cancel{F0} \rightarrow \cancel{F0} \rightarrow \cancel{F0}$) - default - 868.35 MHz ($\cancel{R0} \rightarrow \cancel{F0} \rightarrow \cancel{F0} \rightarrow \cancel{F0}$) Modulo ricevitore radio RCB50E compatibile (opzionale)		
Modulo memoria radioco- mandi	СОМ	BIXMR2	This allows the functioning configurations to be saved using the function $3\varepsilon \to 5\varepsilon$. The saved configurations can be recalled using the function $3\varepsilon \to \varepsilon$. 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 disconnect-					
			sitioning direction.		
DC power supply	-+	J10	Power supply: 36 V DC In battery operation mode, when the power supply is off: 24 V DC. 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 re-establish or until the battery voltage drops below the safety threshold. The control panel turns off in the last case.		
		BAT	NOTE: the operating temperature of the rechargeable batteries is from +0°C to +40°C. To check the voltage level of the batteries refer to the menu $3F \rightarrow 3E$.		
			n. / n.		

13. Jumper setting

Jumper	Description	OFF •	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.
Jumper	Description	1 30	1 30
JR2	Selection of power supply - auxiliary board.	AUX1 powered from 0-1. (default). With $E5 \rightarrow BN$ it turns off during power saving mode	AUX1 powered from 0-30. Always supplied.

14. Segnalazioni LED



15. Using of the menus



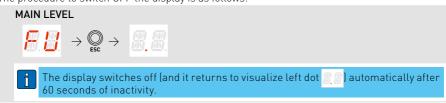
NOTE: pressure on the keys may be quick (less than 2 s) or prolonged (longer than 2 s). Unless specified otherwise, quick pressure is intended. To confirm the setting of a parameter, prolonged pressing or double prolonged pressing is necessary.

15.1 Switching the display ON and OFF

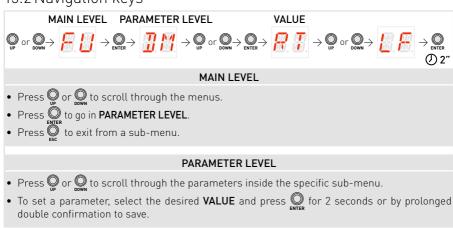
The procedure to switch ON the display is as follows:



The procedure to switch OFF the display is as follows:



15.2 Navigation keys



16. Parameters LCU50DC

16.1 Main level menu

	Display	Description
		Frequent use The menu allows to manage the most commonly used parameters to customize the functionalities of the automation
		Operation Mode The menu allows to manage all the parameters used for operation modes of the automation (type of automation installed, predefined settings, automatic closure, etc.)
2	<i>R. B.</i>	Run Adjustment The menu allows to adjust all the run parameters (opening/closure speed, slowdown positions, obstacle thrust sensibility etc.)
Complete menu		Input/Output Configuration The menu allows to configure the inputs/outputs functionalities of the automation (selection of devices connected to the terminals, photocells, flashing light/electrolock setting, etc.)
	<i>8.0</i>	Radio Operations and Connectivity The menu is used to manage all parameters for the radio/wireless functions of the control panel
		Diagnostic Functions The menu allows to manage all other parameters used for additional services (diagnostic counters, FW updating, energy saving, etc.)

16.2 Frequent use menu map

	•
	MAIN LEVEL
<i>□</i>	Frequent Use
	PARAMETER LEVEL
8.5	
BM	DM - Open direction
8.8	EP - Setting encrypted messages of remote control transmission (AES 128bit and PROTECTED mode)
5.R	SR - Remote control storage
RM	RM - Operation mode of the radio re- ceiver
<i>E.</i> 5	T5 - Terminal 5 operation mode
8.5	AC - Automatic closure enabling
3. 5	TC - Setting of automatic closing time [s]
8.8	RP - Adjustment of partial opening measurement [%]

E.B.	TP - Setting of automatic closing time after partial opening [s]
<i>R. A.</i>	R1 - Adjustment of thrust on obstacles and motor current during opening
82	R2 - Adjustment of thrust on obstacles and motor current during closure
B.B.	VA - Opening speed [cm/s]
K.E.	VC - Closing speed [cm/s]
88	R9 - Configuration of input 30-9
11.8	D6 - Selection of device connected to terminals 1-6 an with safety test
88	D8 - Selection of device connected to terminals 1-8 and with safety test
58	SO - Terminal 1-8 operation mode with automation stopped

OC - Obstacle detection limit during

VR - Learning speed setting

VM - Initial movement speed

TA - Adjustment of acceleration time on opening

TQ - Adjustment of acceleration time on closure

TD - Deceleration time adjustment during opening

TU - Deceleration time adjustment during closure

DO - Duration of disengagement on stop during opening

DC - Setting of disengagement on stop during closure [mm] DE - Setting of disengagement after edge intervention [cm]

ST - Start-up time adjustment

T T DT - Obstacle recognition time adjust-

MP - Start-up at maximum power

OT - Selection of type of obstacle

🚪 🛜 IO - Input/Output Configuration

PARAMETER LEVEL

FA - Selection of opening limit switch mode

FC - Selection of closing limit switch

R9 - Configuration of input 30-9

T5 - Terminal 5 operation mode

64 - Functioning of safety stop/closing command

AM - Operation of AUX plug-in control board

20 - Partial opening command of ter-minal 30-20

p T PT - Fixed partial opening

D6 - Selection of device connected to terminals 1-6

SM - Selection of operating mode for device connected to terminals 1-6

D8 - Selection of device connected to terminals 1-8

16.3 Complete menu map MAIN LEVEL

\iint 🖰 OM - Operation Mode

PARAMETER LEVEL

AS - Selection of the automation

DM - Open direction

AC - Automatic closure enabling

TC - Setting of automatic closing time

RP - Adjustment of partial opening measurement [%]

TP - Setting of automatic closing time after partial opening [s]

pp - Setting of step-by-step sequence

S9 - STOP mode in the step-by-step sequence from command 1.5

SS - Duration of STOP in step-by-step sequence from command 1-5

TS - Setting of renewal of automatic closing time after PH safety device release [%]

WO - Setting of pre-flashing time on opening [s]

WC - Setting of pre-flashing time on closing [s]

NI - Activation of anti-freeze system

TN - NIO intervention temperature and automatic ramps

HS - Automatic ramp adjustment

TH - High temperature protection en-

VL - Vacation lock/unlock

DS - Display mode

PS - Predefined setting

RA - Run Adjustment

PARAMETER LEVEL

VA - Opening speed [cm/s]

VC - Closing speed [cm/s]

R1 - Adjustment of thrust on obstacles and motor current during opening

R2 - Adjustment of thrust on obstacles and motor current during closure

OB - Adjustment of deceleration distance during opening [cm]

CB - Adjustment of deceleration distance during closing [cm]

	SO - Terminal 1-8 operation mode when open		WR - Request to restart the connected WiFi device (in particular Apple HomeKit)
	68 - Selection of the device simultaneously connected to terminals 1-6 and 1-8		MA - Mobile App access management
	LP - Function of output +LP-	m m	DE Diamastia Functions
	13 - Function of output 13	D.E.	DF - Diagnostic Functions
			PARAMETER LEVEL
	LU - Setting the courtesy light switch- on extra time [s]		SP - Password setting
	LG - Switch-on time for independently commanded courtesy light		IP - Password insertion
	LR - Electric lock release time		CU - Visualization of the firmware version on the control panel
	PV - Power supply via solar panels (future use)		UP - Firmware update
	ES - Energy-saving		AL - Alarm counter
	LB - Signal for batteries almost flat		AH - Alarm log
	LL - Voltage threshold for indicating when the batteries are almost flat		AR - Alarm reset
	BO - Battery mode		CV - Display of total operations counter
88	RO - Radio Operations and Connectivity		CP - Display of partial operations counter
	PARAMETER LEVEL		ZP - Reset of partial operations counter
	EP - Setting encrypted messages		CA - Setting the maintenance alarm (facto-
	SR - Remote control storage		ry setting - alarm deactivated: 0.0 00.00) OA - Selecting maintenance alarm display mode
	RM - Radio receiver operation		CH - Display of power supply hour
	TX - Visualization of counter showing remote controls stored		BH - Visualization of counter for power
	MU - Setting of the maximum number of remote controls that can be stored in the memory		SV - Saving user configuration on con-
	ER - Deletion of a single remote control		RC - Configuration loading
	EA - Total memory deletion		RL - Loading of last configuration set
	64686868		EU - Erasing of user configurations and last configuration set in the storage module
	C1, C2, C3, C4 - Selection of CH1, CH2, CH3, CH4 function of stored remote control		IM - Motor current visualization
	RE - Setting of memory opening via remote control		TB - Visualization of the internal temperature of the automation
	MS - Compatibility setting with older generation GOL4 remote controls		TT - Visualisation of maximum and minimum temperatures recorded
	RK - Menu navigation via remote control keypad		TF - Limit switch test. Visualises ER / EE (N.O. / NO if they are not configured)
	FQ - Radio frequency selection		BL - Visualization of Battery voltage level
	BT - Bluetooth® mode		EL - Efficiency level of the automation
	WF - Setting of WiFi functionality		RD - Resetting of factory settings

16.4 "Frequent use" menu - parameters description

Il menu	o frequente permette di gestire i parametri più utilizzati per personalizzare omazione.	le funzio	nalità	
Parameter	Pr Description		Selections available	
8.5.	AS - Selection of automation Allows you to select the automation type (factory preset) • NO - None • 4B - ION4B • 6B - ION6B I NOTE: the card performs a restart after a new value is selection.	<u># 8</u>	88	
	warning: in case of replacement card, the display flashes MB alarm. No operation is allowed. The R5 parameter must be first configured. This operation must be performed by qualified personnel.	<i>8.8</i>		
	DM - Opening directionRT - RightLF - Left	<u>R</u> . I.	E.E.	
<u> </u>	EP - Setting encrypted messages of remote control transmission (AES 128bit mode and protected mode) If the possibility to receive coded messages is enabled, the control panel will be compatible with remote controls of the "ENCRYPTED" or Protected type. • ON - Enabled • OF - Disabled	88	<u>8 E</u>	
	SR - Memorizzazione di un radiocomando Perfer - (5 Pr) -	x2, x3		
D . B .	By pressing Starts flashing and it is possible to associate the content of the start of the star	e to assoc	ittons. iate the	
	NOTE: if the display shows (NO) flashing, the remote control r stored.	nay alrea	dy be	
B.M.	RM - Radio receiver operation This is the function associated to radio command when only one channel is stored (independently which one is) • 1-5 - Step-by-step • 1-3 - Opening		8.8 .	
3 .5.	T5 - Terminal 5 operation mode This parameter is associated to the functionality of the terminal 30-5 • 1-5 - Step-by-step • 1-3 - Opening	<u>#. 5</u>	8.8	
8.8.	AC - Automatic closure enabling • OF - Disabled • ON - Enabled • 1-2 - Dependent on input at terminal 20 (parameter 20 must set to 22)	8.8. 8.8.	<u>88</u>	

R.B		TC - Setting of automatic closing time [s] It is set with different intervals of sensitivity:	88 - 59
		• from 0" to 59" with intervals of 1 second • from 1'0 to 1'5 with intervals of 10 seconds	8885
		For each interval, the display visualizes:	
	M. M.	- ## → 1 minute and 10 seconds	
			3 . 5 3 . 5.
		- US → 1 minute and 50 seconds	#8
		• from 2' to 4' with intervals of 1 minute	
		RP - Adjustment of partial opening measurement [%]	
	RP	This parameter adjusts the percentage of partial opening in relation to	88 88
	团. 团.	the total opening of the automation.	
		• from 10 to 99 % with intervals of 1 %	<u>80</u>
		TP - Setting of automatic closing time after partial opening [s]	00 00
		It is set with different intervals of sensitivity.	88 58
		• from 0" to 59" with intervals of 1 second	
	THE ITTE	• from 1'0 to 1'5 with intervals of 10 seconds	8.8 8.5
		For each interval, the display visualizes:	
		- 🔡 → 1 minute and 10 seconds	
		 PE > 1	
		- 1. 1 minute and 50 seconds • from 2' to 4' with intervals of 1 minute	<u>8 0</u>
		R1 - Adjustment of thrust on obstacles and motor current during opening [%]	
		The control panel is provided with a safety device which, in the case of	
		an obstacle:	
		- the movement is stopped, if outside the obstacle detection limit space,	
		performs a disengagement operation.	
		NOTE: the obstacle detection limit space when opening is defined by the type of limit switch installed, in the absence of a	88 99
	M, M.	limit switch it is determined by the selection $RR \rightarrow BB$.	80
		• 00 – Minimum thrust (minimum current delta for obstacle detection)	
		• 99 – Maximum thrust (maximum current delta for obstacle detection)	
		The threshold is calculated dynamically as a delta on the motor current	
		measured during the opening stroke.	
		R2 - Adjustment of thrust on obstacles and motor current during closing [%]	
		The control panel is provided with a safety device which, in the case of	
		an obstacle:	
		- closing, outside of the detection limit space, the system invert the	
		movement;	
		- closing, in the detection limit space, the system stoped the movement.	
	- T	NOTE: the obstacle detection limit space when closing is de-	8888
	82	fined by the type of limit switch installed, in the absence of a	2.0
		limit switch it is determined by the selection $RR \rightarrow BE$.	<u>3 0</u>
		• 00 – Minimum thrust (minimum current delta for obstacle detection)	
		• 99 – Maximum thrust (maximum current delta for obstacle detection)	
		The threshold is calculated dynamically as a delta on the motor current	
		measured during the closing stroke.	
		VA - Opening speed [cm/s]	
		• from 10 to 30 cm/s with intervals of 1 cm/s	88 88
	<u>M. M.</u>		0.00
			20

• 9P - Open state of the input triggers a permanent stop (default) • 9T - Open state of the input triggers a temporary stop. Once contact closes, an automatic closure time is activated (if enabled) • HR - With the input open, the automation operates in "operator present" mode 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 10 cm 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 P8 → DE)	
R9 - Terminal 9 operation mode NO - Disabled 9P - Open state of the input triggers a permanent stop (default) 9T - Open state of the input triggers a temporary stop. Once contact closes, an automatic closure time is activated (if enabled) HR - With the input open, the automation operates in "operator present" mode 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 10 cm 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 P8 D86	
R9 - Terminal 9 operation mode N0 - Disabled 9P - Open state of the input triggers a permanent stop (default) 9T - Open state of the input triggers a temporary stop. Once contact closes, an automatic closure time is activated (if enabled) HR - With the input open, the automation operates in "operator present" mode 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 10 cm 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 P8 D8 Contact 1-6 opens, after the stop there is a disengagement of a duration depending on the selection P8 D8 Contact 1-6 opens, after the stop there is a disengagement of a duration depending on the selection P8 D8 Contact 1-6 opens, after the stop there is a disengagement of a duration depending on the selection P8 D8 Contact 1-6 opens, after the stop there is a disengagement of a duration depending on the selection P8 D8 Contact 1-6 opens, after the stop there is a disengagement of a duration depending on the selection P8 D8 Contact 1-6 opens, after the stop there is a disengagement of a duration depending on the selection P8 D8 Contact 1-6 opens, after the stop there is a disengagement of a duration depending on the selection P8 D8 Contact 1-6 opens, after the stop there is a disengagement of a duration depending on the selection P8 D8 Contact 1-6 opens, after the stop there is a disengagement of a duration depending on the selection P8 D8 Contact 1-6 opens, after the stop there is a disengagement of a duration depending on the selection P8 D8 Contact 1-6 opens, after the stop there is a disengagement of a duration depending on the selection P8 D8 Contact 1-6 opens, after the stop there is a disengagement of a duration depending on the selection P8 D8 Contact 1-6 opens, after the stop there is a disengagement of a duration de	
NO - Disabled PP - Open state of the input triggers a permanent stop (default) PT - Open state of the input triggers a temporary stop. Once contact closes, an automatic closure time is activated (if enabled) HR - With the input open, the automation operates in "operator present" mode 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 10 cm 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 PR D8 - D8	
• 9T - Open state of the input triggers a temporary stop. Once contact closes, an automatic closure time is activated (if enabled) • HR - With the input open, the automation operates in "operator present" mode 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 10 cm 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 • P8 - P8	P
D6 - Selection of device connected to terminals 1-6 • N0 - None • PH - Photocells • P41 - Photocells with safety test • SE - Safety edge [if contact 1-6 opens, there is a disengagement of 10 cm 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 ♣8→ №	18.
P41 - Photocells with safety test SE - Safety edge (if contact 1-6 opens, there is a disengagement of 10 cm 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 RA > JE)	28
10 cm 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 ♣♣→ ▮₺)	8.8.
is a disengagement of a duration depending on the selection $\stackrel{\textbf{PR}}{\leftarrow} \rightarrow \stackrel{\textbf{JE}}{\rightarrow}$	
D8 - Selection of device connected to terminals 1-8	
• N0 - None	H
- 1 41 Thotoccus with safety test	8.8.
10 cm after the stop)	
• S41 - Safety edge with safety test (if contact 1-8 opens, after the stop there is a disengagement of a duration depending on the selection ♣8→ №)	
SO - Terminal 1-8 operation mode when open • ON - Enabled	
• OF - Disabled If enabled (CM) with the automation idle (gate closed or partially open) all operations are prevented. If disabled (CF) with the automation idle (gate closed or partially open) opening operations are permitted.	1.8.

16.5 Complete menu - parameters description

BM	TI IV		peration Mode		
			nu allows to manage all the parameters used for operation mode tion (type of automation installed, predefined settings, automatic		
		Parameter	Description	Sele ava	ections ilable
		85	AS - Selection of the automation Allows to select the automation type (factory preset) • NO - None • 4B - ION4B • 6B - ION6B	88	43
		<u>M. M.</u>	NOTE: the card performs a restart after a new value is selection.		_
			WARNING: in case of replacement card, the display flashes #3 alarm. No operation is allowed. The #5 parameter must be first configured. This operation must be performed by qualified personnel.	8.B	
		<u> 1</u> 1.14.	- 21 (6)(R.I.	<i>E.E.</i>
			AC - Automatic closure enabling • OF - Disabled	88.	BN
		BE.	• 0N - Enabled • 1-2 - Dependent on status of terminal 20 (parameter 25 must set to 1-2)	8.8	
			NOTE: the card performs a restart after a new value is selection.		
			TC - Setting of automatic closing time [s] It is set with different intervals of sensitivity:	88	5.9
			• from 0" to 59" with intervals of 1 second	_	8.5
			• from 1'0 to 1'5 with intervals of 10 seconds For each interval, the display visualizes:	-	88
			- U I → 1 minute and 10 seconds 		<u>M. M.</u> 20
			- 115 → 1 minute and 50 seconds • from 2' to 4' with intervals of 1 minute		_
		R.R.	RP - Adjustment of partial opening measurement [%] This parameter adjusts the percentage of partial opening in relation to the total opening of the automation. • from 10 to 99 % with intervals of 1 %		<mark>99</mark>
			TP - Setting of automatic closing time after partial opening [s] It is set with different intervals of sensitivity.	AA	59
			• from 0" to 59" with intervals of 1 second • from 1" to 1"5 with intervals of 10 seconds	_	8.5
		TP.	For each interval, the display visualizes:		8.8
			- []] → 1 minute and 10 seconds 		<u>M</u> . <u>M</u> . 80
			- 175 → 1 minute and 50 seconds • from 2' to 4' with intervals of 1 minute		<u> </u>
		B.B.	PP - Setting of step-by-step sequence • 00 - Opening-Stop-Closing-Opening • 01 - Opening-Stop-Closing-Stop-Opening	88	88
		5.8	S9 - Stop mode in step-by-step sequence from command 1-5. ON - Permanent OF - Temporary.	88	<u>0</u> 8
Z E N			SS - Selection of automation status at start OP - Open.	0.0	
IP2437EN		ö . ö.	CL - Closed. Indicates how the control panel considers the automation at the time of switch-on, or after a POWER RESET command.	0.8.	(10) (10) (11) (11)





	DS - Setting of display visualisation mode • 00 - No visualisation • 01 - Commands, safety devices and radio test. Display of countdo automatic closure. • 02 - Automation status • 03 - Commands and safety devices NOTE: the setting 3 allows you to see when a radio to mission is received, for range checks (RX and NX - see 16.2)	ans-	88 82	<u>8</u> 8
	PS - Predefined settings			
	It is used to load default settings for some parameters: • DF- Default configuration			
	AC - Automatic closure enabling	0 N		
	• TC - Setting of automatic closing time	318		
	• T5 - Terminal 5 operation mode	<i>F</i> S		
	• RM - Radio receiver operation	18.5		
	• AM - Operation of AUX plug-in control board	18.5		
	• SS - Selection of automation status at start	0.0		
	H0 - Predefined setting, residential use 0			
	• AC - Automatic closure enabling	18.2		
	• T5 - Terminal 5 operation mode	1.5		
	• RM - Radio receiver operation	1-5		
	• AM - Operation of AUX plug-in control board	1-5		
PB	• SS - Selection of automation status at start	DP.	#E	BB
<u>M. M.</u>	H1 - Predefined setting, residential use 1		HA	88
	• AC - Automatic closure enabling	ON.	101, 101,	<u> </u>
	• TC - Setting of automatic closing time	11		
	• T5 - Terminal 5 operation mode	8.5		
	• RM - Radio receiver operation	8.5		
	• AM - Operation of AUX plug-in control board	8.5		
	• SS - Selection of automation status at start	EL		
	• C0 - Predefined setting, condominium use 0			
	• AC - Automatic closure enabling	DN		
	• TC - Setting of automatic closing time	45		
	• T5 - Terminal 5 operation mode	8.3		
	• RM - Radio receiver operation	8.3		
	• AM - Operation of AUX plug-in control board	8.8		
	• SS - Selection of automation status at start	EL		





RA - Run Adjustment

The menu allows to adjust all the run parameters (opening/closure speed, slowdown positions, obstacle thrust sensibility etc.)

position	s, obstacte thrust sensibility etc.)	
Parameter	Description	Selections available
<i>B.B.</i>	VA - Opening speed [cm/s] • from 10 to 30 cm/s with intervals of 1 cm/s	88 <mark>88</mark>
E.E.	VC - Closing speed [cm/s] • from 10 to 30 cm/s with intervals of 1 cm/s	40 80 20
	R1 - Adjustment of thrust on obstacles and motor current during opening [%] The control panel is provided with a safety device which, in the case of an obstacle: - the movement is stopped, if outside the obstacle detection limit space, performs a disengagement operation.	
8 . 4 .	NOTE: the obstacle detection limit space when opening is defined by the type of limit switch installed, in the absence of a limit switch it is determined by the selection ??? → ???. • 00 – Minimum thrust (minimum current delta for obstacle detection)	88 <u>30</u>
	 99 – Maximum thrust (maximum current delta for obstacle detection) The threshold is calculated dynamically as a delta on the motor current measured during the opening stroke. 	
	R2 - Adjustment of thrust on obstacles and motor current during closing [%] The control panel is provided with a safety device which, in the case of an obstacle: - closing, outside of the detection limit space, the system invert the movement;	
	closing, in the detection limit space, the system stoped the movement.	88 88
<i>8.2</i> .	NOTE: the obstacle detection limit space when closing is defined by the type of limit switch installed, in the absence of a limit switch it is determined by the selection $RR \to BC$.	<u>30</u>
	 00 – Minimum thrust (minimum current delta for obstacle detection) 99 – Maximum thrust (maximum current delta for obstacle detection) The threshold is calculated dynamically as a delta on the motor current measured during the closing stroke. 	
8.8	OB - Adjustment of deceleration distance during opening [cm] Indicates the deceleration distance before reaching the maximum open position. • from 5 to 99 cm with intervals of 1 cm	85 99 60
<i>E. B.</i>	CB - Adjustment of deceleration distance during closing [cm] Indicates the deceleration distance before reaching the closing position. • from 5 to 99 cm with intervals of 1 cm	85 89 60
8.8	PO - Adjustment of approach speed during opening [cm/s] Indicates the speed from the end of the deceleration ramp to the end of the opening stroke • from 3 to 10 cm/s with intervals of 1 cm/s NOTE: gradually increase the approach speed if there is a se-	03 10 05
	ries of quick vibrations (chattering) in heavy gates installed with a slight incline.	

	PC - Adjustment of approach speed during closing [cm/s] • from 3 to 10 cm/s with intervals of 1 cm/s	88 8	
88	 O0 - Obstacle detection limit during opening [cm] Indicates the distance from the opening stop at which disengagement is deactivated. • from 5 to 99 cm with intervals of 1 cm NOTE: not active if T□ → FR → 5 x or if T□ → FR → P x 	85	. 99 0
	OC - Obstacle detection limit during closure [cm] Indicates the distance from the closure stop at which reversal is deactivated. • from 5 to 99 cm with intervals of 1 cm NOTE: not active if ₹□→FR→5 x or if ▼□→FR→P x	8 5	. 99
B.B.	VR - Setting of learning speed [cm/s] • from 5 to 10 cm/s with intervals of 1 cm/s	85 8	### ### ### ##########################
	VM - Initial movement speed [cm/s] • from 0 to 15 cm/s with intervals of 1 cm/s	88	
E.B.	TA - Adjustment of acceleration time during opening [s] Regulates the slope of the acceleration ramp during opening • from 0.5 to 9.9 s with intervals of 0.1 s	<u>0.5</u> 2	
H. H.	TQ - Adjustment of acceleration time during closure [s] Regulates the slope of the acceleration ramp during closing • from 0.5 to 9.9 s with intervals of 0.1 s	<u>8.5</u>	
E. H.		## 1	<u>99</u>
I.I.	TU - Adjustment of deceleration time during closure [%] Regulates the slope of the deceleration ramp during closing. • from 10 to 99 % with intervals of 1 %	#. # <u>-</u>	99 5
B . B .	DO - Setting of disengagement on stop during opening [mm] Regulates the distance of the disengagement on the mechanical opening stop. • 00 - Disabled • from 1 to 15 mm with intervals of 1 mm	88 8	
	 DC - Setting of disengagement on stop during closure [mm] Regulates the distance of the disengagement on the mechanical closing stop. 00 - Disabled from 1 to 15 mm with intervals of 1 mm 	88 8	
3 . 6 .	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 • from 1 to 20 cm with intervals of 1 cm		20 0
	ST - Adjustment of start time [s] • from 0.5 to 3.0 s with intervals of 0.1 s	<u>0.5</u> 2	

	I.B.		ut/Output Configuration nu allows to configure the inputs/outputs functionalities of the ar	utomatio	n.
IB		Parameter	Description	Selecti availa	
<u> </u>		<i>B.B.</i>	 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) 	<u># 8</u> 8 #	5.8
			 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) 	<u># 8</u> 8 #	5.8
		8.8	 R9 - Terminal 9 operation mode NO - disabled. 9P - open state of the input triggers a permanent stop (default). 9T - open state of the input triggers a temporary stop. Once contact closes, an automatic closure time is activated (if enabled). 	NO 8 I	<u>98</u>
			 HR - With the input open, the automation operates in "operator present" mode 		
		3.5	T5 - Terminal 5 operation mode This parameter is associated to the functionality of the terminal 30-5 1-5 - Step-by-step 1-3 - Opening	<u>#. 5</u>	B. B
		8.8	64 - Functioning of safety stop/closing command • 1-4 - Closing. Contact NO • 1-6 - Safety. Contact NC	8.8	<u>8.5</u>
		B.M.	AM - Operation of AUX plug-in control board • 1-5 - Step-by-step • 1-3 - Opening	<u>#.5</u>	8.8
		2.8	 20 - Partial opening command of terminal 30-20 P3 - Partial opening command 1-2 - Enabling of automatic closure 	<u>88</u>	8.8
			 PT - Fixed partial opening ON - Enabled OF - Disabled If DN, a partial opening command given on the partial opening position is 		
		H . H.	ignored. With contact 30-20 closed (for example with the timer or manual selector), the gate will partially open. If it is then fully opened (open the command) and reclosed (open with automatic closure), it will stop at the		<u>88</u>

command) and reclosed (even with automatic closure), it will stop at the

partial opening position.

1 <u>10</u> 1 1. <u>10</u> 1.		LP - Function of output +LP- • 00 - courtesy light	88	8.8
) <u>(</u>		 01 - electric lock (activated for a time defined by parameter LR) 02 - electric lock + release stroke (time defined by parameter LR) 	8.2	83
8		 03 - ON-OFF flashing light (active with motor in action) 04 - ON-OFF flashing light for LED without oscillator (with motor in action) 	88	8.5
		 05 - ON for LED flashing light with internal oscillator 06 - proportional indicator light for open gate (with signal of battery operation) 	8.6.	8.2
1 <u>100</u>		y .	8.8	8.9
		 09 - automation open (activated with gate fully open) 10 - automation moving (can also be used for electromagnets that need 	20	33
		to be powered throughout the operation) • 11 - automation opening	8.8	8.8
		• 12 - automation closing • 13 - maintenance alarm	33	88
		• 14 - Low batteries signal • ON - output always active		
		13 - Function of output 13 • 00 - courtesy light	88	8.8
		 01 - electric lock (activated for a time defined by parameter LR) 02 - electric lock + release stroke (time defined by parameter LR) 	82	8.3
		 03 - ON-OFF flashing light (active with motor in action) 04 - ON-OFF flashing light for LED without oscillator (with motor in action) 	88	Ø. S.
		 05 - ON for LED flashing light with internal oscillator 06 - proportional indicator light for open gate (with signal of battery operation) 	<u>0.6</u>	
	11.11.	 07 - fixed indicator light for open gate (automation not closed) 08 - automation closed (activated with gate fully closed) 09 - automation open (activated with gate fully open) 	8.8	8.8
		 10 - automation open factivated with gate fully open; 10 - automation moving (can also be used for electromagnets that need to be powered throughout the operation) 	20	
		• 12 - automation closing	8.8	4.8
		• 14 - Low batteries signal	33	88
		ON - output always active		
		LU - Setting the courtesy light switch-on extra time [s] To enable the parameter, set IO-LP-OC (courtesy light).	B	
		It is set with different intervals of sensitivity. • NO - Disabled	88.	. 5.8
		• from 01" to 59" with intervals of 1 second • from 1'0 to 2' with intervals of 10 seconds	H.B	. 2.5.
		For each interval, the display visualizes: - !! !	3 .8	. 8.8.
		$\frac{115}{100}$ \rightarrow 1 minute and 50 seconds	-0	H
		 from 2' to 4' with intervals of 1 minute ON - Permanently enabled (switched off via remote control 		
		NOTE: the courtesy light switches on at the start of each operation		

	LG - Switch-on time for independently commanded courtesy light [sec, min, hh] To enable the parameter, set I □→L P→□□ selection as the courtesy light. • NO - disabled • from 01to 59 - from 1 second to 59 seconds with intervals of 1 second		8 - 58 - 8
8.6 .	 from 1'0 to 1'5 - from 1 minute to 1 minute and 50 seconds with intervals of 10 seconds 2' - 2 minutes from 03. to 59 from 3 minutes to 59 minutes with intervals of 1 minute from 0.1. to 1.2 from 1 hour to 12 hours with intervals of 1 hour ON - Switched on and off with remote control or Wall-Station NOTE: the switching on of the light does not depend on the start of an operation but can be commanded separately using the remote-control. 	2 <u>0 3</u> 0.4	8. 8.9. 8.8.
B.B.	LR - Electric lock release time [s] If enabled, this indicates the electric lock activation time at the start of every opening operation with the automation closed.		3.0 5
8.8.	PV - Solar panel power supply (future use) • ON - Enabled • OF - Disabled	88	88
8. 5 .	ES - Energy-saving (disconnecting accessories connected to terminals 0-1) • ON - Enabled (the red point on the right of the display flashes every 5 s). • OF - Disabled Power supply disconnection mode is activated after 5' with the gate closed, or when the gate is idle and automatic closure is not enabled. • NOTE: the automation resumes its normal operation when a command is received on the radio board or following a terminals 30-5. WARNING: The installer, in the case of installing an accessory that requires power always on, can set the selection to OFF and disable the function.	<u>0N</u>	88
3 . 3 .	LB - Indication that batteries are almost flat • 00 - Visualisation on display (alarm message ♂) • 01 - Visualisation on flashing light (with the automation idle, 2 flashes are made and then repeated every hour) and on display (alarm message ♂) • 02 - Visualisation on "open gate" indicator light (with the automation closed, 2 flashes are made and then repeated every hour) and on display (alarm message ♂)	<u>88</u>	
	LL - Voltage threshold for indicating that batteries are almost flat (V) • 22 - Minimum • 28 - Maximum NOTE: it is set with an interval of sensitivity of 0.5 V shown when the decimal point on the right lights up.		2.8 2
<i>B</i> 8	BO - Battery mode O - Anti-panic (performs the opening operation following a mains supply failure. The automation opens but does not accept any other commands until the mains supply has been restored). O 1 - Continuous operation - the last operation performed before control panel switch of with flat batteries will be an appening.	88 82	84



panel switch-off with flat batteries will be an opening.

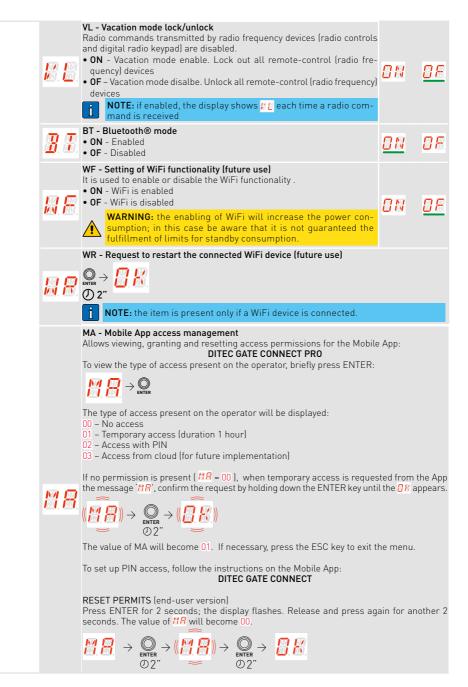
• 02 - Continuous operation - the last operation performed before control

panel switch-off will with flat batteries be an closure.

RO - Radio Operations and Connectivity

The menu is used to manage all parameters for the radio/wireless functions of the control panel

control	Janet		
Parameter	Description	Select availa	
	EP - encrypted radios for remote controls (AES 128 and PROTECTED		
B. B .	modes) If the possibility to receive coded messages is enabled, the control panel will be compatible with remote controls of the "ENCRYPTED" type.	0.80	<u>0 F</u>
	SR - Remote control storage		
	© → (5 P) → (5 P) → (5 P) → (6 P) → (6 P) → (7 P) → (x2, x3	
	By pressing with (58) starts flashing and it is possible to associate the d	esired bu	ttons.
	After Line is displayed, Light lashes again on the display and it is poss	ible to as	sociate
	the next button. To exit, press 🔘 for 2 seconds and move on to the ne		
	NOTE: if the display shows [NO] flashing, the remote control memorized.	nay alrea	dy be
	RM - Radio receiver operation This is the function associated to radio command when only one channel		
R.H.	is stored (independently which one is) • 1-5 - Step-by-step	<u>85</u>	B. B .
	• 1-3 - Opening TX - Visualization of counter showing remote control stored		
I. Z.	\bigcirc		
	MU - Setting of the maximum number of remote controls that can be stored in the memory You can store a maximum of 100 or 200 remote control codes.		
	$ \bigcirc \hspace{-0.5cm} \longrightarrow \hspace{-0.5cm} \bigcap \hspace{-0.5cm} \bigcirc \hspace{-0.5cm} \bigcirc \hspace{-0.5cm} \longrightarrow \hspace{-0.5cm} \bigcirc \hspace$		
	• 10 - 100 remote controls that can be stored • 20 - 200 remote controls that can be stored		2.0
	WARNING: selecting $\square \square \rightarrow \square \square$ (200 remote controls), the configurations $\square \square$ and $\square \square$ saved with the $\square \square \square \square \square$ command will be		
	lost. This also applies for the last configuration reloaded with RL . In		
	addition, new configurations cannot be saved on UI and UI .		
	ER - Deletion of a single remote control		
<i>E.R.</i>	EMER > F. F. > (C)		
	EA - Total memory deletion		
<i>E.B.</i>			
	It requires double confirm. Press of the property of the prop		





Diagnostic Functions

The menu allows to manage all other parameters used for additional services (diagnostic counters, FW updating, energy saving, etc.).					
Parameter	Description	Selections available			
	SP - Setting the password $ \bigcirc \rightarrow \square \square \rightarrow \square \square \rightarrow \square \square \rightarrow \square \square $ $ \square \rightarrow \square \square \square \rightarrow \square \square \square $ $ \square \rightarrow \square \square$				
3.B.	NOTE: this can only be selected when the password is not set.				
	Setting the password prevents unauthorised personnel from accessing adjustments. You can delete the set password by selecting the sequence: JR1=0N, JR1=0FF, JR1=0N	g selections and			
I P	IP - Inserimento della password $ \bigcirc \rightarrow \square \square \rightarrow \square \longrightarrow \square $ $ \bigcirc \rightarrow \square \square \rightarrow \square \longrightarrow \square $ $ \bigcirc \rightarrow \square \square \longrightarrow \square $ [esempio] $ \bigcirc \bigcirc \square \square \longrightarrow \square $				
<u> </u>	NOTE: this can only be selected when the password is set.				
	When the password is not inserted, you can access the display mode regard tion made with JR1. When the password is inserted, you can access in mai CU - Visualization of the firmware version on the control panel				
B . B .	\bigcirc \rightarrow Release 1.1 (example)				
88	UP - Firmware update Activates the card bootloader in order to update the firmware. Contact aft ment for more information [CONTROL	er-sales depart-			
Д, Щ,	AMIGO USBPROO O O O O O O O O O O O O				
8.8.	AL - Alarm counter Used to view, in sequence, the counters of alarms that have been trigger (alarm code + number of times triggered). With a buttons, you call the counters and see all the alarms recorded.	red at least once an scroll through			
	AH - Alarm log	W:+- O O			
8.8.	Used to view, in sequence, alarms that have been triggered (maximum 20), buttons, you can scroll through the entire alarm log. The display shows th and code, alternated. The highest number corresponds to the most recerlowest number (0) corresponds to the oldest alarm.	e alarm number nt alarm and the			
	AR - Alarm reset Resets all the alarms in the memory (counters and log).				
88	$ \begin{array}{c} $				

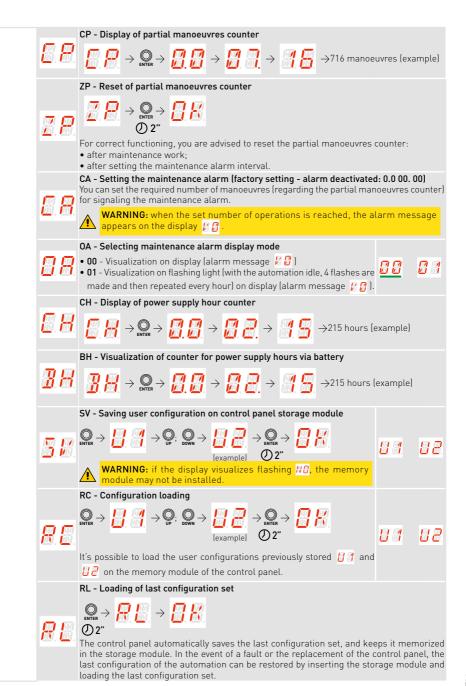


NOTE: when the installation has been completed, you are advised to delete the alarms in order to facilitate future checks.











	EU - Erasing of user configurations and last configuration set in the stora	ge modul	e		
<i>E. II.</i>	\bigcirc				
I.B.	IM - Motor current visualization				
I. II.	TB - Permanent display of the internal control panel temperature [°C] • ON - Enabled • OF - Disabled	88	<u>0</u> F		
T.T.	TT - Display min / max temperatures recorded • by pressing for 2 seconds the values are reset • minimum value with active right point				
	TF - Limit switch test Only FB / FC. are displayed when the respective limit switches are configured and active. If the limit switches are active but not configured: FA= N.O. (both active points) FC= NO (no active point)	8.8	<u>8.8</u>		
	BL - Visualization of Battery voltage level: The parameter shows the battery voltage level: • Lo - Automation stopped. Battery voltage level is low (< 22 V) • 22 - Battery voltage level > 22 V and < 23 V • 23 - Battery voltage level > 23 V and < 24 V • 24 - Battery voltage level > 24 V and < 25 V • 25 - Battery voltage level > 25 V and < 26 V • 26 - Battery voltage level > 26 V and < 27 V • 27 - Battery voltage level > 27 V and < 28 V • 28 - Battery voltage level > 28 V	2 8 2 8 2 8 2 8	28 28 28		
	NOTE: the parameter is visible in the menu if the main power su and the battery kit is connected. In battery mode, when there is n the automation speed is reduced to a maximum of 15 cm/s.				
	 EL - Efficiency level of the automation At first start-up, the automation performs an acquisition operation and ciency level. This value can be used to assess the mechanical quality of understand a suitable automation choice. In cases where the value is mechanical maintenance is recommended to restore efficiency or the automation with higher performance (e.g. motor with higher power). 	of the gate lower the e adoption	e and to an 90%, on of an		
	 During normal use, this parameter indicates the efficiency of the automation, updating its degradation status in real time: 90%-99% High efficiency level, automation in excellent condition. 50%-89% Medium efficiency level, performance starts to degrade. 10%-49% Low efficiency level, performance is degraded, and maintenance is required. 				
	NOTE: the reference level is the level set in the RF parameter.				
	RD - Resetting of factory settings				
B. I I.	$ \bigcirc \rightarrow (\nearrow $				

17. Signals visualised on the display



NOTE: depending on the type of automation and control panel, certain visualisations may not be available.

17.1 Display of automation status

• 8 8 5 3 8 8					
Display	Description				
	Automation closed				
加 , 加 <u>加</u> , <u>而</u> .	Automation closed Release door open				
	Automation open				
1771 1771 1871 - 1871	Automation open Release door open				
W W M. W.	Automation stopped in intermediate position				
W W M. M.	Automation stopped in intermediate position Release door open				
M. M.	Automation closing				
M.M.	Automation that slows down during closing				
M M M. M.	Automation opening				
	Automation that slows down during opening				



NOTE: the automation status display mode is only visible with Display visualisation mode set to @2.

• 0 $M \rightarrow 0$ $5 \rightarrow 0$ 2



Display	Description
Display	
147 144 1 <u>4</u> 1 <u>141 .</u>	Automation closed
	Automation closed Release door open
W W M M.	Automation open
W W M M.	Automation open Release door open
	Automation stopped in intermediate position
	Automation stopped in intermediate position Release door open
	Automation closing
	Automation that slows down during closing
	Automation opening
	Automation that slows down during opening

17.2 Display of safety devices and commands

Display	Description	Display	Description
8.8 .	1-2 - Automatic closing activation command	8.8	68 - Selection of the device simultaneou ly connected to terminals 1-6 and 1-
8.8 .	1-3 - Opening command	8.8	1-6 - Safety device with opening an closing stop
	1-4 - Closing command	5 . 4 .	S1 Detection of stop during closure
3. 5 .	1-5 - Step-by-step command	8.8	1-8 - Safety with closing reversal
83	P3 - Partial opening command.	8.8	1-9 - STOP command
H.P.	4P - Closing command with operator present	38	3P - Opening command with operat present
R.X.	RX - Radio reception (of any memorised key of a transmitter present in the memory)	3.2 .	S2 Detection of stop during opening
w v	NX - Radio reception (of any non-memorised key) NOTE: with the selection ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑	88.	OO Obstacle detection area reach during opening
isi. is.		8.6.	OC. Obstacle detection area reach during closure
E.B.	EX - Rolling-code radio reception out of sequence	R.H.	RV - Enabling/disabling of built-in rac receiver via RX
E.P.	EP - Radio reception not complying with the parameter configuration R□→EP		MQ - Learning operation of mechanic end stops in progress
	CX - Command received from AUX board	H.T.	HT - Heating of the motors (NIO function in progress
	JR1 - Variation of the JR1 jumper status	H. 5.	HS - Sharp NIO start-up
	VL - radio controls disabled ('Vacation Mode' parameter active)	8.8.	FC Closure limit switch
	SW - Release door open When the release door is closed, the control panel performs a RESET (allarme	8.8 .	FA Opening limit switch
<u>, </u>	It is possible to ignore the reset by holding down the set + bowk keys for 3 seconds until the (5 k) tops flashing.		FE: if you return to the menu, the reset eactivated.

P2437EN

17.3 Visualisation of alarms and faults

Type of	Display	Description	Operation
alarm	. ,		
		M0 - Automation not configured	Check the configuration of the parameter
	M. 3 .	M3 - Automation blocked	Check the mechanical parts
	M.H.	M4 - Motor short circuit	Check connection of motor
	M.B.	M8 - Stroke too long	Check the rack / chain belt
	M B.	M9 - Stroke too short	Manually check that the gate moves freely
	MB.	MB - Absence of motor during an operation	Check connection of motor
			Check connection of the opening limit switch
larm	M. II.	limit switch If the limit switch is configured but can't be found, each stop (from the 3 3 deceleration start point) is seen as an obstacle and indicated with 3 2.	
Mechanical alarm	M.E.	ME - Irregular operation of the closure limit switch If the limit switch is configured but can't be found, each stop (from the 8 deceleration start point) is seen as an obstacle and indicated with ME.	Check connection of the closure limit switch.
	M.I.	MI - Detection of fifth consecutive obstacle	Check for the presence of permanent obstacles along the stroke of the automation
		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
	B.E.	OE - Obstacle during closure	Check for the presence of obstacles along the automation stroke
	B.B.	OF - Automation blocked on opening	Check the mechanical parts and make sure there are no obstacles along the automation stroke
	8.5	OG - Automation blocked on closure	Check the mechanical parts and make sure there are no obstacles along the automation stroke
Power supply Settings	5.5.	S6 - Incorrect setting of safety device test	Check the configuration of parameters $38, 38, 68$. If $88 \rightarrow 5$ $\%$, 36 and 38 cannot be 9 $\%$ or 5 $\%$.

	IE Navaltana 0 1 (faultuvaltana nanvilatan	Ch!, th iiit i
<i>I.</i> 5.	15 - No voltage 0-1 (faulty voltage regulator or short-circuit on accessories)	tion 0-1. If the problem persists, replace the contropanel.
I. B .	16 - Excessive voltage 0-1 (faulty voltage regulator)	
	17 - Internal parameter error - value out- side limits	Reset. If the problem persists, replace the contropanel.
I.8.	18 - Program sequence error	Reset. If the problem persists, replace the contropanel.
I.B.	IA - Internal parameter error (EEPROM/ FLASH)	Reset. If the problem persists, replace the contropanel.
I.B.	IB - Internal parameter error (RAM)	Reset. If the problem persists, replace the contropanel.
T. E.	IC - Operation time-out error (>5 min or >7 min in learning mode)	Manually check that the gate moves freely. If the problem persists, replace the contropanel.
I.B.	IE - Power supply circuit fault	Reset. If the problem persists, replace the contropanel.
Ī.M.	IM - MOSFET alarm - motor in short circuit or always ON	Reset. If the problem persists, replace the contropanel. Check the settings / operating of any lim switches.
I. II.	10 - Interrupted motor power circuit (motor MOSFET open or always OFF)	Reset. If the problem persists, replace the contropanel.
I.R.	IR - Motor relay error	Reset. If the problem persists, replace the contropanel.
I. D.	IS - Error on motor current read circuit test	Reset. If the problem persists, replace the contropanel.
I. II.	IU - Error on motor voltage read circuit test	Reset. If the problem persists, replace the contropanel.
Ŧ.H.	TH - Intervention of high temperature safety device	Do not carry out any operations. If the problem persists, contact Technica Service.
H.H.	VH - Automation blocked due to high tem- perature	Do not carry out any operations. If the problem persists, contact Technica Service.
	XX - Firmware reset commanded by the sim	nultaneous pressing of the \mathbb{Q}_{up} + \mathbb{Q}_{uv} keys
	WD - Firmware reset not commanded	

Radio operations alarm	88	R0 - Insertion of a storage module containing over 100 stored remote controls WARNING: the RO-MU-20 seting is made automatically	To save the system configurations on the storage module, delete any stored remote controls and bring the total to less than 100. Set RD > 10
	R.B.	R3 - Storage module not detected	Insert a storage module
	R.H.	R4 - Storage module not compatible with the control panel	Insert a compatible storage module
	B.B.	R5 - No serial communication with the storage module	Replace the storage module
	8.8	R6 - Insertion of a specific storage module for testing	
	8.8.	RV - Plug-in radio boards	
supply m	8.8	P0 - No mains voltage	Check the control panel is powered correctly. Check the line fuse. Check the mains power supply.
Power supply alarm	B. H.	P1 - Microswitch voltage too low	Check the control panel is powered correctly
Battery alarm	BB	B0 - Battery almost flat	Check battery voltage. Replace battery.
	8.8	AO - Failure of test of safety sensor on contact 6	Check the device SOFA1-A2 is working correctly If the supplementary SOF board is not inserted, check the safety test is disabled
Accessories alarm	B. A.	A1 - Simultaneous safety sensor test on contacts 6 and 8 failed	Check the wiring and correct operation of the safety sensor
	8.8	A3 - Failure of test of safety sensor on contact 8	Check the device SOFA1-A2 is working correctly If the supplementary SOF board is not inserted, check the safety test is disabled
	8.8.	A7 - Incorrect connection of contact 9 to terminal 41	Check that terminal 1 and 9 are correctly connected
	88	A9 - Overload on output +LP-	Check the device connected to output +LP- is working properly



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

18. Troubleshooting

	Problem	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	IS		Disconnect all accessories from terminals 0-1 (a voltage of 24 V must be present) and reconnect them one at a time. Contact Technical Service.
		Blown line fuse.			Replace fuse.
		Safety contacts are open.	I	1.8	Check that the safety contacts are closed correctly (NC).
		Safety contacts not correctly connected or self-controlled safety edge not functioning correctly.	80	1.8	Check connections to terminals 6-8 on control panel and connections
			84	18 58	to the self-controlled safety edge.
			83	0.0.	
		Photocells activated.	18	I.8	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	MB	MH	Check motor connection, if the problem persists, contact Technical Service.
		Mechanical fault	M.B.	8.8	Check the rack and transmission chain, and/or the mechanical parts.
		Release microswitch open	5.8		Check that the hatch is closed correctly and the microswitch makes contact.
		Faulty control panel	1.3	1.8.	Contact Technical Service.
			18	I.M.	
				I.O.	
			IB	IR	
		Both limit switches are active.	E.B.	<i>E.E.</i>	Check the connection of the limit switches

Problem	Possible cause	Alarm signalling	Operation
	Incorrect connections between the photocells and the control panel.		Check that F5/F8 is displayed. Connect NC safety contacts together in series and remove any jumpers on the control panel terminal board. Check the setting of F0 35 and F0 38.
The automation opens/closes briefly and then stops	There is a presence of friction.	MI MS	Manually check that the automation moves freely and check the R 1/R2 adjustment. Contact Technical Service.
	The radio transmission is impeded by metal structures and reinforced concrete walls.		Install the antenna outside.
range and does not work with the automation moving.			Replace the transmitter batteries.
	No storage module or incorrect storage module.	R.O. R.3	Switch the automation off and plug in the correct storage module.
work		<i>R</i> <u>S</u>	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.	89	Check the connections. If the problem persists, contact Technical Service.

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