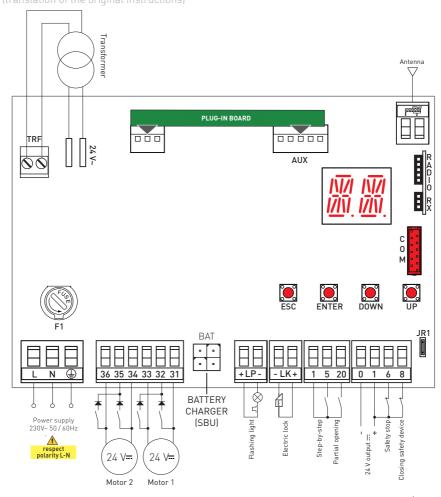






Ditec LCU30H @ HomeLink.

Installation manual for the control panel of automations with one or two 24 V == motors (translation of the original instructions)



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

i

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

Factory settings

General safety precautions for the user



ATTENTION! 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

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 be used only 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 motorized door or gate while it is moving. Do not obstruct the motion of the motorized door or gate, as this may cause a dangerous situation • Lock and release the door or gate wings only when the motor is switched off. Do not enter within the action range of the door or gate wing(s) • In case of operation in "hold-to-run" ("dead man") mode, the corresponding command devices must be located so to have direct and complete view of the door or gate during the maneuvers, away from any moving parts, at a minimum height of 1.5 m, and out of reach of the public • The motorized 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 or remain in the area of action of the motorized 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 motorized door or gate • Cleaning and maintenance work intended to be done by the end user must not be carried out by children unless they are supervised. In the event of a product fault or malfunction, turn off the power supply switch. Do not attempt to repair or intervene directly. Any repair or technical intervention must be carried out by qualified personnel. Failure to comply with the above may cause a dangerous situation. 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 motorized 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 • To correctly dispose of electrical and electronic equipment, of batteries, and of accumulators, users must take the product to special "recycling centers" provided by the municipal authorities.

General safety precautions for technical personnel



ATTENTION! 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.

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 quide 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 3mm 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 installation, 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.

EC Declaration of Conformity

EC Declaration of Incorporation

ASSA ABLOY Entrance Systems AB Lodjursgatan 10

SE-261 44 Landskrona

Sweden

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

Control units for swing gates with 1 or 2 24 V operators Ditec LCU30H

Comply with the following directives and their amendments:

2014/35/EU Low Voltage Directive (LVD)

2014/30/EU Electromagnetic Compatibility Directive (EMCD)

2014/53/EU Radio Equipment Drective (RED)

2011/65/FU Restriction of hazardous substances (RoHS 2)

2015/863/EU Restriction of hazardous substances (RoHS 2 Amendment)

Harmonized European standards that have been applied:

EN 61000-6-3:2007 + A1:2011

EN 60335-1:2012 + A11:2014 + A13:2017 + A 14:2019 EN 60529:1991 + A1:2000 + A2:2013 + AC:2016

ETSI EN 300 220-2 V3.2.1

FTSLFN 301 489-1 V2 2 3

EN 61000-6-2:2019

EN ISO 13849-1:2015

EN 62233:2008 ETSI EN 300 220-1 V3.1.1

FTSLFN 301 489-3 V2 1 1

Other standards or technical specifications that have been applied:

FN 12453-2017

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

Responsible for technical file:

Matteo Fino

Business Area PGA

Ditec S.p.A.

Largo U. Boccioni, 1

21040 Origgio (VA)

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

Place Origgio

Date 2022-03-03 Signature Matteo Fipo

Matter An

Position President B.A. PGA

1. Safety functions

The Ditec LCU30H control panel has the following safety functions:

- obstacle recognition with force limiting;

The maximum response time of the safety functions is 0.5s. The reaction time to a faulty safety function is 0.5s.

The safety functions comply with the standards and performance level indicated below:

EN ISO 13849-1:2015 Category 2 PL=c EN ISO 13849-2:2012

The safety function cannot be bypassed either temporarily or automatically. Fault exclusion has not been applied.

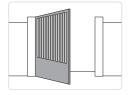
2. Technical specifications

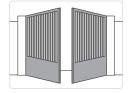
	LCU30H	LCU30HJ				
Power supply	230 V~ ±10%, 50/60 Hz 120 V~ ±10%, 50/60					
Power absorption	0,6 A	1,2 A				
Fuse	F1,6A	F3,15A				
Motor output	24 V== 6 A max (X 2)					
Power supply to accessories 0-1	24 V== 0,5 A peak / 0,3 A continuous					
Ambient temperature	-20°C - +55°C					
Storable radio codes	100 / 200 [see RO \rightarrow MU \rightarrow 10/20]					
	433.92 MHz (code ZENRS) or 868	3.35 MHz (code ZENPRS optional)				
Radio frequency	The receiver module is purchasable separately					
Degree of protection of the container	IP55					
Product size [mm]	187 x 261 x 102					
Operating cycles	Refer to the characteristics of the actuator used.					



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

2.1 Applications





3. Installation and electrical connections

- Perforate the relevant points in the bottom part of the box (Fig. 3.1).
- Fix the control panel permanently. You are advised to use round-head screws (max head Ø 10 mm) with a cross (hole centre distance indicated in Fig. 3.2).
- Insert the cable glands and corrugated tubes from the lower side of the container.
- 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 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-F 3G1.5 type electric cable. Connect it to the terminals L (brown), N (blue), ((gellow/green) inside the automation (Fig. 3.3).

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

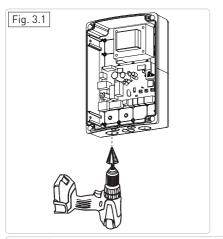
• In order to comply with the essential requisites of the Standards in force, reclose the cover once the wires have been connected to the terminal.

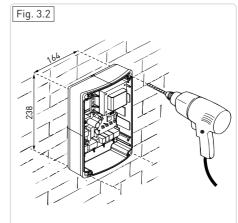


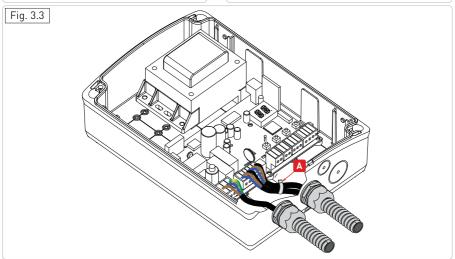
The connections to the mains power supply and to any possible low voltage wires (230 V) in the section outside the control panel must be made on an independent channel separated from the connections to the command and safety devices (SELV= Safety Extra Low Voltage). The corrugated tubes must enter the control panel by a few centimetres via the holes on the base box.

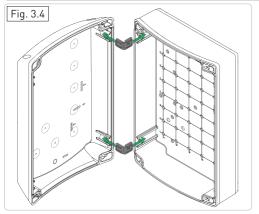
- Make sure there are no sharp edges that may damage the cables.
- Make sure the mains supply wires (230 V) and the wires of the accessories (24 V) are separated.
- The cables must have dual insulation, be sheathed near the relative connection terminals, and be held in place with ties [A] (not supplied).
- If necessary, fit the clip hinges on the bottom of the box and on the cover (left or right side, as preferred) [Fig. 3.4].

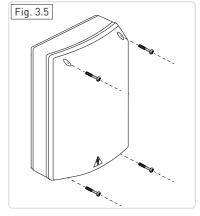
After making the adjustments and settings, fix the cover in place with the screws supplied (Fig. 3.5).









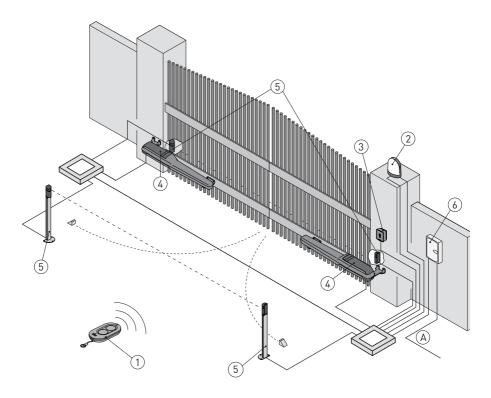


3.1 Maintenance

The control panel doesn't require any special maintenance.

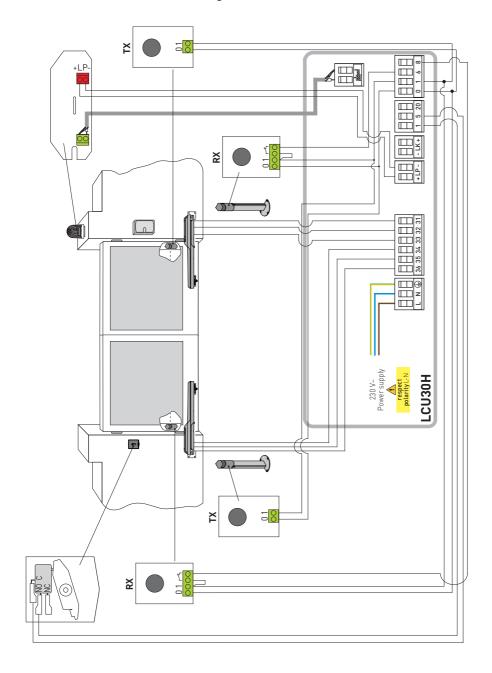
Make regular checks to ensure the seals on the box and the electrical connections are in good condition.

3.2 Standard installation



Ref.	Description	Cable
1	Transmitter	/
2	Flashing light	2 x 1 mm ²
2	Antenna (integrated in the flashing light)	coaxial 50 Ω
3	Key selector switch	4 x 0.5 mm ²
3	Digital combination wireless keypad	/
,	Actuator	2 x 1.5 mm ²
4	Actuator with limit switch	3 x 1.5 mm ²
5	Photocells	4 x 0.5 mm ²
6	Control panel	3G x 1.5 mm ²
A	Connect the power supply to a type-approved omnipolar switch (not supplied), with a contact opening distance of at least 3mm. Connection to the mains must be via an independent channel, separated from the connections to the command and safety devices.	

3.3 Standard installation diagram



4. Programming



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

4.1 Switching the display ON and OFF

The procedure to switch on the display is as follows:



- press the ENTER key
 - press the LiviLivikey
- the display functioning check starts



The procedure to switch off the display is as follows:

• press the ESC key

NOTE: the display switches off automatically after 60 s of inactivity.

4.2 Navigation keys

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



 \bullet The simultaneous pressing of the $\mathop{\textstyle \sqrt{}}\nolimits$ and ENTER keys produces a closing command.



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

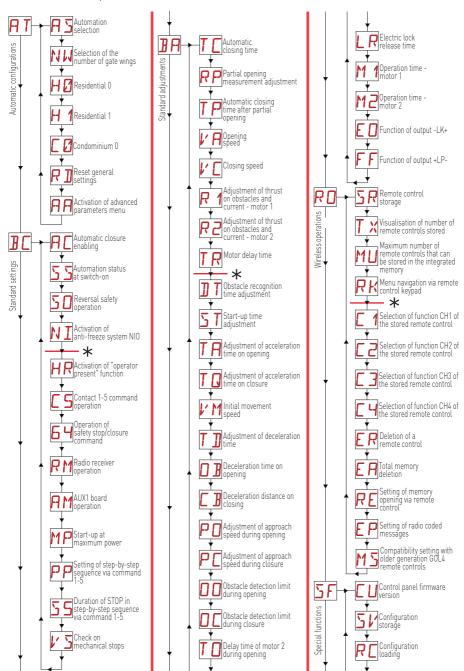


- \bullet Keep the UP \uparrow or DOWN \downarrow key pressed to begin fast menu scrolling.
- In some menus, the parameter measurement unit can be viewed by pressing the ENTER key once the value has been displayed.

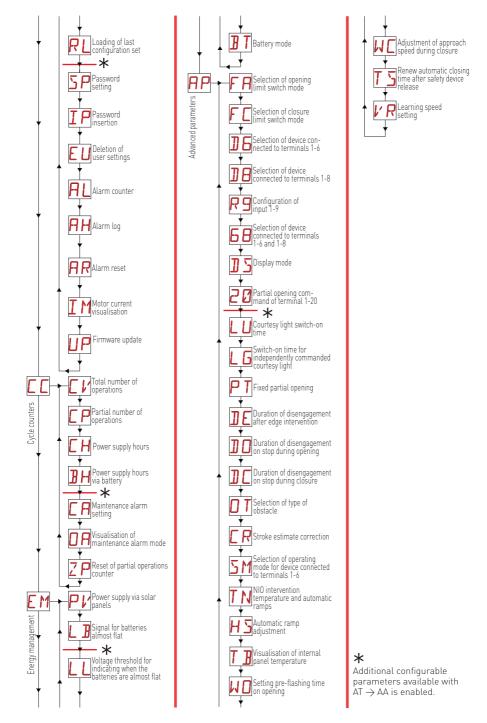
Example: setting of 10 seconds for parameter OB.



4.3 Menu map







5. Quick start-up sequences

5.1 Selection of automation type

Example of PWR25 automation selection

Set

Example of PWR35 automation selection

Set

5.2 Configuration of the number of gate wings

Configuration example for a single gate wing

Set

5.3 Enabling the configurations

Step-by-step mode without automatic closure (residential use)

Step-by-step mode with automatic closure 1 min (residential use) [standard settings]

Opening mode with automatic closure 1 min (condominium use)

5.4 Adding remote controls







5.5 Configuration of the limit switches

Example 1 - Door wing stops against mechanical end stops (standard setting)

Set

$$\overset{\mathsf{UP}}{[\![]} + \overset{\mathsf{DOWN}}{[\![]} \to \overset{\mathsf{P}}{[\![]} + \overset{\mathsf{ENTER}}{[\![]} \to \overset{\mathsf{UP}}{[\![]} + \overset{\mathsf{DOWN}}{[\![]} + \overset{\mathsf{ENTER}}{[\![]} \to \overset{\mathsf{ENTER}}{[\![$$

Example 2 - Door wing stops against limit switches

Set

$$\begin{array}{c} \mathsf{UP} + \mathsf{DOWN} \to \mathsf{PP} & \stackrel{\mathsf{ENTER}}{\bigcirc} \to \mathsf{PP} & \stackrel{\mathsf{ENTER}}{\square$$

With these settings, if an obstacle is detected while opening, the door wing stops and performs a disengagement operation whereas during a closing operation, the door wing reopens.

Example 3 - Door wing stops against mechanical end stops and reverses motion if an obstacle is detected

Set

With these settings, the gate wing stops against its respective mechanical closing end stop and the opening limit switch.

If an obstacle is detected during the opening and before the activation of the stop limit switch, the gate wing stops with a disengagement operation.

If an obstacle is detected during closure and before the activation of the proximity limit switch, the gate wing reopens; once the proximity limit switch has been activated, the gate wing stops against the obstacle.

5.6 Configuration of the safety devices

Example 1 - Configuration of the photocells connected to terminals 1-8 and 1-6 [standard settings]

Set

$$\begin{array}{c} \text{UP} + \text{DOWN} \\ \hline \bullet \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{ENTER} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{ENTER} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{ENTER} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{ENTER} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{ENTER} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{ENTER} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{ENTER} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{ENTER} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{ENTER} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{ENTER} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{ENTER} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{ENTER} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{ENTER} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{ENTER} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{ENTER} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \bullet \\ \end{array} \rightarrow \begin{array}{c} \text{P} \\ \hline \end{array} \rightarrow \begin{array}{c} \text{P} \\ \end{array} \rightarrow \begin{array}{c} \text{$$

Example 2 - Configuration of the safety edge with safety test simultaneously connected to terminals 1-6 and 1-8

Set

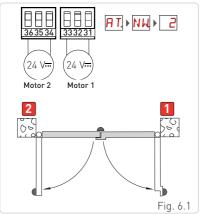
P2251EN

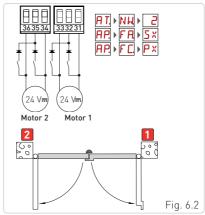
6. Application examples

6.1 Automations with two swinging gates



When the Ditec LCU30H control panel is used in applications for automations with two overlapping swinging gate wings, the following connections can be made:





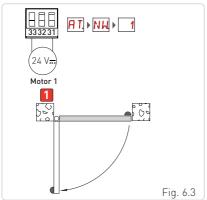
(Fig. 6.1) Installation with mechanical end stops for opening and closure, and without the use of electric limit switches.

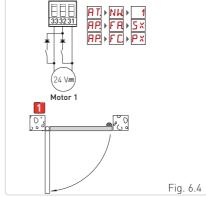
(Fig. 6.2) Installation with mechanical end stop for closure, and with the use of electric limit switches (stop during opening and proximity during closure).

6.2 Automations with one swinging gate wing



When the Ditec LCU30H control panel is used in applications for automations with one swinging gate wing, the following connections can be made:





(Fig. 6.3) Installation with mechanical end stops for opening and closure, and without the use of electric limit switches.

(Fig. 6.4) Installation with mechanical end stop for closure, and with the use of electric limit switches (stop during opening and proximity during closure).

7. Commands

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You are advised to read paragraph 11 for all the details about the possible adjustments.

Command		Function	Description	
1 5	NO	NO	STEP-BY-STEP	When selecting $\Pi \Gamma \to \Gamma S \to I - S$, 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 $\Pi \Gamma \to S S$. The "opening-stop-closing-opening" sequence can be changed to "opening-stop-closing-stop-opening" by selecting $\Pi \Gamma \to PP$.
		OPENING	When selecting]	
1 6	NO	CLOSURE	When selecting]] [\to 6 4 \to 1- 4, closing the contact activates a closing operation.	
1 6	NC	SAFETY STOP	When selecting ∄ C → G Y → I · G, opening of the safety contact stops and prevents any movement. NOTE: to set different safety contact functions, see the ↑ P → 5 M parameter settings.	
1 — 8	NC	CLOSING SAFETY DEVICE	The opening of the safety contact triggers a reversal of the movement (reopening) during the closing operation. When selecting $\mathbb{BC} \to \mathbb{SO} \to \mathbb{DN}$, the opening of the contact prevents any operation when the automation is idle. When selecting $\mathbb{BC} \to \mathbb{SO} \to \mathbb{DF}$, the opening of the contact only prevents closure when the automation is idle.	
1 6 8	NC	CLOSING/ OPENING SAFETY DEVICE	The opening of the safety contact stops and prevents any movement. NOTE: operation corresponds to that of contact 1-6 with $PP \to SM \to 0S$.	
1 —— 20	NO	PARTIAL OPENING AUTOMATIC CLOSURE	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. Selecting $\PP \rightarrow 2 ? \rightarrow 1 \cdot 2$, the permanent closure of the contact enables automatic closure if $\PC \rightarrow 1 \cdot 2$.	
1	NC	STOP	Selecting $\PP \to 20 \to 1$ - \P , the opening of the safety contact causes the movement to stop. NOTE: 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.

7.1SOFA1-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 — t 6	NC	SAFETY STOP	When selecting $\PP \to \ref{1} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
1 — t 8	NC	CLOSURE SAFE- TY DEVICE	When selecting $\PP \to JB \to S$ 41. connect the output contact of the safety device to terminals 1-8 on the control panel (in series with the photocell output contact, if installed).
1 6 8	NC	CLOSING/OPEN- ING SAFETY DEVICE	When selecting $P \to B \to S$ 41. 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 $B \to S$ 41. $B \to B$ and $B \to B$ cannot be $B \to B$ 41.

8. Outputs and accessories

Output	Value of accessories	Description
- + 0 1	24 V / 0.3 A	Power supply to accessories. Output for power supply to external accessories. NOTE: the maximum absorption of 0.3 A corresponds to the sum of all terminals 1. The gate open indicator light (1-13) is not calculated in the 0.3 A indicated above, the maximum value considered is 3 W.
	GOL148REA	If the GOL868R4 radio receiver is used (868.35 MHz), connect the supplied antenna wire (90mm).
	FL24 24 V / 25 W	Configurable 24 V= output (default: flashing) The pre-flashing settings can be selected from the third level menu 用 → W □ and/or 用 → W □. To modify the operating mode of the LP output, refer to the selection
-LK+	24 V≕ / 15 W	Electric lock It is activated when the operation begins with the automation closed. To modify the operating mode of the LK output, refer to the selection ∄ → E □. NOTE: compatible with 12/24 V- electric locks
AUX	BIXR2 BIXPR2 LAB9 LAN7S MOBCRE SOFA1 - SOFA2 GOPAVRS	The control panel has two slots for plug-in command and safety boards. The action of the control card can be defined by selecting → M. When using slot-in radio boards, remove the RDX module. The display will show V. Warning: the plug-in board must be inserted and removed with the power supply disconnected.

Output	Value of accessories	Description
RDX	ZENRS ZENPRS	The control panel is fitted with a housing for modules of the ZENRS radio receiver type (433.92 MHz). Can be replaced with a radio receiver module of the ZENPRS type (868.35 MHz). The operating mode is selected via $\mathbb{R} \longrightarrow \mathbb{R} M$. When using slot-in radio boards, remove the RDX module. The display will show $\mathbb{R} V$. WARNING : the modules must be inserted and removed with the power supply disconnected.
сом		COM - This allows the functioning configurations to be saved using the function $\mathbf{SF} \to \mathbf{SV}$. The saved configurations can be recalled using the function $\mathbf{SF} \to \mathbf{RC}$.
	BIXMR2	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 re-establish 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. NOTE: the operating temperature of the rechargeable batteries is from +5°C to +40°C. For advanced control of battery-powered operation, refer to the menu [M.

9. 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.

10. Adjustments



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

10.1 Main menu

Display	Description
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. NOTE: 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).
RP	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.).
	NOTE : 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 property and keys to select the required function
- press 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 Π function (see the following paragraph).



NOTE: 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.

10.2Second level menu - AT (Automatic Configurations)

	Display	Description Selections available
	A 2	AS - Automation selection This selection pre-sets the type of motor and a sub-set of parameters linked to the kinematic mechanism of the automation for a standard installation. See "Selection of automation type", paragraph 10.2.1. Each parameter can still be modified when necessary.
	NN	NW - Selection of the number of gate wings In the case of automations with a single gate wing, connect motor 1.
AT - Automatic configurations	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
	<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
		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
	R]	RD - Resetting of general settings (SETTINGS RESET) ENTER ENTER O 2" O 2"
	AA	AA - Activation of additional configurable parameters for each function of the main menu. ENTER → ②2" After activation you can scroll through the third level menus. The third level menus are activated for 30 min.

10.2.1 Selection of automation type $\begin{picture}(10,0) \put(0,0){\line(1,0){100}} \put(0,0){\li$

AS Type of automation	Model	R1-R2 Thrust on obsta- cles and current	VA - VC Speed during opening and closure	VR Learning speed	PO-PC Ap- proach speed	TA Acceleration time during opening	TQ Accel- eration time during closure	VM Ramp start-up speed
1	ОВВІЗВН	50	24	18	07	2	3	03
02	ARCBH	70	14	10	06	2	3	03
03	FACIL3H	50	12	10	05	2	3	03
04	LUX03BH-4BH	40	16	12	06	1	2	10
05	PWR25H	50	18	10	05	2	3	03
05	PWR35H	50	20	12	06	2	3	03
07	PWR40H	40	22	15	06	1	2	10

10.3 Second level menu - BC (Basic Configurations)

	Display	Description		tions able
ns	AC	AC - Enabling of automatic closure ON - Enabled 1-2 - Dependent on input 1-2		1-2
iguratio	55	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.	OP	
Basic configurations	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 open ations are prevented. When disabled (OF) with the automation idle, if the contact 1-8 is open operations are permitted.		<u> </u>
BC -	ΝI	NI - Enabling of NIO electronic anti-freeze system ON - Enabled OF - Disabled When enabled (ON), it maintains the efficiency of the motor even at lot temperatures. NOTE: 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 ☐P→ ▼ I	same am-	0 N 0 F

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

	Displ	.ay	Description		tions lable
	H	R	HR - Enabling of "operator present" function ON - Enabled OF - Disabled NOTE: Set HR \rightarrow ON only if $64\rightarrow$ 1- 4 and $5\rightarrow$ 1- 3 .		OF
		5	C5 - Operation of command associated with contact 1-5 1-5 - Step-by-step 1-3 - Opening	1-5	1-3
suo	6	4	64 - Functioning of safety stop/closing command. 1-4 - Closing 1-6 - Safety stop	- 	1-6
urati	RI	1	RM - Radio receiver operation 1-5 - Step-by-step 1-3 - Opening	1-5	1-3
onfig	Al	11	AM - Operation of AUX1 plug-in control board 1-5 - Step-by-step 1-3 - Opening	1-5	1-3
- Basic configurations	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 R 1-R2.	<u> </u>	0F
BC.	P	P	PP - Setting step-by-step sequence from command 1-5. ON - Opening-Stop-Closing-Stop-Opening OF - Opening-Stop-Closing-Opening		OF
	5!	5	S5 - Duration of STOP in step-by-step sequence from command 1-5. ON - Permanent OF - Temporary		OF
	l' .	5	VS - Checking the mechanical end stops When enabled (ON), every time the power supply is connected the automation automatically checks the mechanical stops and/or stop limit switches during opening and closing at the speed set with the adjustment $\mathbb{RP} \rightarrow \mathcal{VR}$. During the learning operation, the display shows the message \mathbb{MQ} and the closing operation involves one gate wing at a time (\mathbb{MQ}).		0F

10.4Second level menu - BA (Basic Adjustment)

	Display	Description	Selections available
	TE	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 '
	유무	RP - Adjustment of partial opening measurement [%] Adjusts the percentage of operation in relation to the total opening of the automation. Partial opening is performed on gate wing 1. 10 - Minimum 99 - Maximum	10,99
	T P	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	11,21 30
stmen	VΑ	VA - Opening speed [V]	5 ee paragraph 10.2.1
Basic adjustment	VE	VC - Closing speed [V]	□ 4 □ 7 See paragraph 10.2.1
BA - Basi	R 1	R1 - Adjustment of thrust on obstacles and current - motor 1 [%] The control panel is fitted with a safety device which, when it detects an obstacle: - stops the opening movement and, if outside the limit area for detecting obstacles, performs a disengagement operation whose duration can be set with $\PP \to \rrbracket E$; - 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 limit area for detecting obstacles during opening and closing is determined by the type of limit switch installed. If there is no limit switch, it is determined on the basis of the selections $\P P \to \P$ and $\P P \to \P C$. 00 - Minimum thrust	See paragraph 10.2.1
	R 2	R2 - Adjustment of thrust on obstacles and current - motor 2 [%] The control panel is fitted with a safety device which, when it detects an obstacle: - stops the opening movement and, if outside the limit area for detecting obstacles, performs a disengagement operation whose duration can be set with PP JE: - 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 limit area for detecting obstacles during opening and closing is determined by the type of limit switch installed. If there is no limit switch, it is determined on the basis of the selections PP DD and PP DD. OD - Minimum thrust	See paragraph 10.2.1

BA	Display	Description	Selections available
	TR	TR - Motor delay time [s] Delay time for closure of gate wing 1 in relation to gate wing 2. 00-30 s	00,30

NOTE: 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.

10.4.1 Additional BA level parameters that can be configured (available with $\Pi \rightarrow \Pi \Pi$ enabled)

	DIC VVI	(II L 1 -> LL enapted)	
	Display	Description	Selections available
	IJΤ	DT - Adjustment of obstacle recognition time [s/100] 10 - Minimum 60 - Maximum NOTE: 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 ¹ 3.0 2.0
	TA	TA - Adjustment of acceleration time during opening [s] 0.5 - Minimum 9.9 - Maximum	See paragraph 10.2.1
Basic adjustment	TQ	TQ - Adjustment of acceleration time during closure [s] 0.5 - Minimum 9.9 - Maximum	5 9 9 9 9 9 9 9 9 9 9
adius	111	VM - Initial movement speed [V] 00 - Minimum 15 - Maximum (See paragraph 10.2.1)	00.15
- Basic	TIJ	TD - Adjustment of deceleration time [%] Adjusts the deceleration ramp slope 10 - Minimum 99 - Maximum	10,99
- BA		OB - Setting of deceleration time during opening [s] Indicates the time between the start of the deceleration ramp and the end of the opening stroke 00 - Minimum 30 - Maximum	
		CB - Setting of deceleration time during closing [s] Indicates the time between the start of the deceleration ramp and the end of the opening stroke 00 - Minimum 30 - Maximum	
	PO	PO - Adjustment of approach speed during opening [V] Indicates the speed from the end of the deceleration ramp to the end of the opening stroke 03 - Minimum 10 - Maximum NOTE: gradually increase the approach speed if there is a series of quick vibrations (chattering) in heavy gates installed with a slight incline.	3 1 3 See paragraph 10.2.1



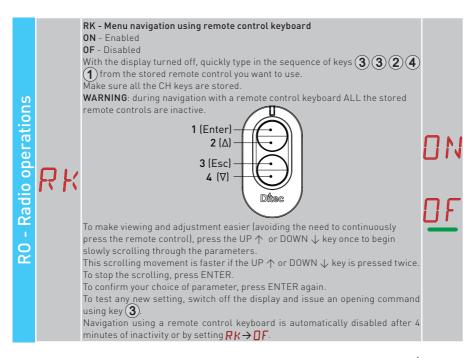
NOTE: make adjustments gradually and only after performing at least three complete operations to allow the control panel to be set correctly and detect any friction during operations.

10.5 Second level menu - RO (Radio Operations)

	Display	Description
adio operations	SR	SR - Remote control storage You can directly access the Remote control storage menu even with the display turned off, but only with the Display visualisation mode option set to 00 or 03: for transmitting a remote control not present in the memory; for transmitting an unstored channel of a remote control already present in the memory. ENTER O 2" WARNING: if the display shows ND flashing, the remote control may already be stored.
- Radi	TX	TX - Visualisation of counter showing remote controls stored TX - Visualisation of counter showing remote controls (example)
- RO	МЦ	MU - Indication of maximum number of remote controls that can be stored in the integrated memory You can store a maximum of 100 or 200 remote control codes. ENTER Or O2" O2" O2" O1

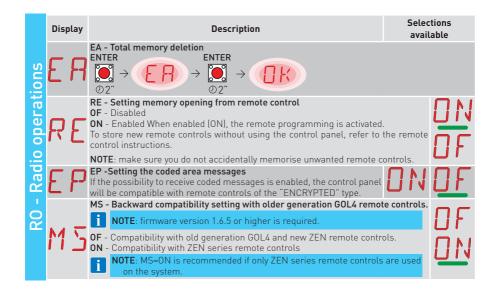


WARNING: selecting $M \sqcup \rightarrow 2 \ \square$ (200 remote controls), the configurations $\sqcup 1$ and $\sqcup 2$ saved with the $5F \rightarrow 5V$ command will be lost. This also applies for the last configuration reloaded with RL. In addition, new configurations cannot be saved on $\sqcup 1$ and $\sqcup 2$.



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

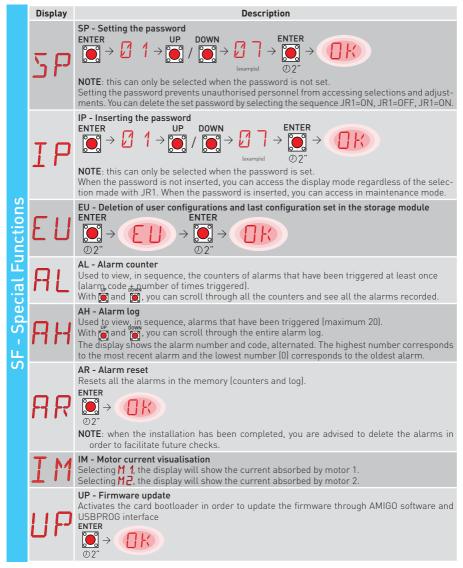
	Display	Description	Selection available	
RO - Radio operations	C 1 C 2 C 3 C 4	C1, C2, C3, C4 - Selection of CH1, CH2, CH3, CH4 function of stored remon No - No setting selected 1-3 - Opening command 1-4 - Closing command 1-5 - Step-by-step command P3 - Partial opening command LG - Command to switch the courtesy light on/off 1-9 - STOP command If even just one (any) CH key of the remote control is stored, the opening step command is implemented. NOTE: the -	or step-by- as alterna-	
	ER	ER - Deletion of a single remote control ENTER 02"		



10.6 Second level menu - SF (Special Functions)

		(eposiar another)	
	Display	Description	
		CU - Visualisation of the firmware version on the control panel	
	LU	\rightarrow Release 1.1 (example)	
			Selections available
ns	.	[example] ① 2"	11 1
ctio	ンド	By selecting ♠ ① → M U → 1② you can save up to 2 personalised configurations in memory positions U 1 and U 2 only with the storage module present on the control panel.	٠.
SF - Special Functions		WARNING: if R□→MU→20 is selected, no user configuration can be saved on U 1 and U2. WARNING: if the display visualises N□ flashing, the memory module may not be installed.	N 2
<u>.</u>		RC - Configuration loading	
Spe	RL		LI 1
SF.		It's possible to load the user configurations previously stored U 1 and U 2 on the memory module of the control panel.	112
		RL - Loading of last configuration set	
	Ω!	ENTER O2" D2"	
	'\ _	The control panel automatically saves the last configuration set, and keeps it me	emorised in
		the storage module. In the event of a fault or the replacement of the control panel, the last configuration mation can be restored by inserting the storage module and loading the last configuration.	

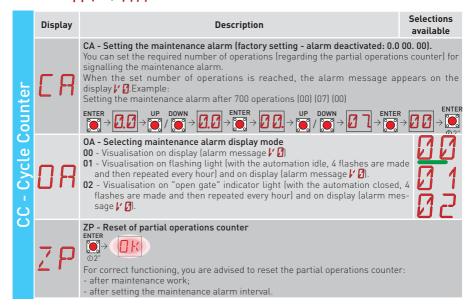
10.6.1 Additional SF level parameters that can be configured (available with $\Pi \to \Pi \Pi$ enabled)



10.7 Second level menu - CC (Cycles Counter)

20	Display	Description
		CV - Display of total operations counter
	LV	

10.7.1 Additional CC level parameters that can be configured (available with $\overrightarrow{A} \overrightarrow{I} \rightarrow \overrightarrow{A} \overrightarrow{A}$ enabled)



10.8Second level menu - EM (Energy Management)

	Display	Description	Selections available
Ш	P\'	PV - Solar panel power supply (panels not supplied) ON - Enabled OF - Disabled	

	Display	Description	Selections available
Ш	LB	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)	

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

ent	Display	Description	Selections available
lanagem	LL	LL - Voltage threshold for indicating that batteries are almost flat (V) 17 - Minimum 24 - Maximum NOTE: it is set with an interval of sensitivity of 0.5V shown when the decimal point on the right lights up.	17,24
EM - Energy Management	BT	 BT - Battery mode 00 - Anti-panic (performs the opening operation following a mains sure. The automation opens but does not accept any other command mains supply has been restored). 01 - Continuous operation - the last operation performed before conswitch-off will be an opening. 02 - Continuous operation - the last operation performed before conswitch-off will be an closure. 	s until the itrol panel

10.9 Second level menu - AP (Advanced Parameters)

		Display	Description	Selec avail	
AP - Advanced Parameters	dilletel s	FF	FA - Selection of opening limit switch mode NO -None SX - Stop limit switch (after activation, the gate wing stops its movement) PX - Proximity limit switch (after activation, the gate wing continues as far as the end stop and any obstacle is considered a stop) RA - Deceleration limit switch (after activation, the gate wing slows down its movement)		SX RA
		F[FC - Selection of closing limit switch mode NO - None SX - Stop limit switch (after activation, the gate wing stops its movement) PX - Proximity limit switch (after activation, the gate wing continues as far as the end stop and any obstacle is considered a stop) RA - Deceleration limit switch (after activation, the gate wing slows down its movement)	NO Px	S X R A
	•	D E	D6 - Selection of device connected to terminals 1-6 N0 - None 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		SE PH



NOTE: 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.

10.9.1 Additional AP level parameters that can be configured (available with $\overrightarrow{R} \overrightarrow{T} \rightarrow \overrightarrow{R} \overrightarrow{R}$ enabled)

r.S.	Display	Description	Selections available
ramete	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
AP - Advanced Parameters		LU - Setting the courtesy light switch-on time (s) To enable this parameter, set at least one of the selections	NO 159 1', 2' 2', 3'

11. Signals visualised on the display

- **NOTE:** depending on the type of automation and control panel, certain visualisations may not be available.
- 11.1 Display of automation status
- **NOTE:** the automation status display mode is only visible with Display visualisation mode set to 02.



Display	Description	Display	Description
JC	Automation closed	10	Automation opening
	Automation open] 1	Automation closing, from partial opening

Display	Description	Display	Description
1 1	Automation stopped in intermediate position	1	Automation in partial opening
1 1	Automation closing]	Automation partially open

11.2 Display of safety devices and commands

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

Display	Description	Display	Description
1-2	1-2 - Automatic closing activation command	1-5	1-6 - Safety device with opening and closing stop
1-3	1-3 - Opening command	5 1.	S1. - Detection of stop during closure - motor 1
1-4	1-4 - Closing command	5. 1.	S.1. - Detection of stop during closure - motor 2
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
3P	3P - Opening command with operator present	68	68 - Partial opening command
4P	4P - Closing command with operator present	52.	S2. - Detection of stop during opening - motor 1
RX	RX - Radio reception (of any memorised key of a transmitter present in the memory)	5.2.	S.2. - Detection of stop during opening - motor 2
NX	NX - Radio reception (of any non-memorised key) NOTE: with the selection		00. - Reaching of obstacle detection limit during opening - motor 1
IVA	, it is also visualised when a command is received from a non-stored transmitter.	0.0.	0.0. - Reaching of obstacle detection limit during opening - motor 2
EX	EX - Rolling-code radio reception out of sequence		OC Reaching of obstacle detection limit during closing - motor 1
EP	EP - Radio reception not complying with the parameter configuration $\square \rightarrow \square \rightarrow \square \rightarrow \square$	O.C.	O.C Reaching of obstacle detection limit during closing - motor 2
ΕX	CX - Command received from AUX1 board	RV	RV - Enabling/disabling of built-in radio receiver via RDX
F C.	FC Closure limit switch - motor 1	MQ	MQ - Learning operation of mechanical end stops in progress
F.E.	F.C Closure limit switch - motor 2	HT	HT - Heating of the motors (NIO function) in progress
FA.	FA Opening limit switch - motor 1	J 1	JR1 - Variation of the JR1 jumper status
F.A.	F.A Opening limit switch - motor 2	1[1C - Closing operation (1 gate wing at a time)

11.3 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
	MO	M0 - Automation type not selected	Select a type of automation from the $\overrightarrow{\textbf{AT}}$ \rightarrow $\overrightarrow{\textbf{AS}}$ menu
	MH	M4 - Short circuit - motor 1	Check the connection of motor 1. Check that the wing is not locked. Check the operation of the electric lock
	M5	M5 - Short circuit - motor 2	Check the connection of motor 2. Check that the wing is not locked. Check the operation of the electric lock
	MB	MB - Absence of motor 1 during an operation	Check the connection of motor 1.
	ME	MC - Absence of motor 2 during an oper- ation (if 2-motor functioning has been set)	Check the connection of motor 2.
	MII	MD - Irregular functioning of motor 1 opening limit switch	Check the connection of the motor 1 opening limit switch.
alarm	ME	ME - Irregular functioning of motor 1 closing limit switch	Check the connection of the motor 1 closing limit switch.
Mechanical alarm	MF	MF - Irregular functioning of motor 2 opening limit switch	Check the connection of the motor 2 opening limit switch.
Mech	MG	MG - Irregular functioning of motor 2 closing limit switch	Check the connection of the motor 2 closing limit switch.
	MH	MH - Door wing overlap not correct	Check that the motor which is the first to make the opening [M1] is connected as shown in fig. 1.
	MI	MI - Detection of third consecutive obsta- cle	Check for the presence of permanent obstacles along the stroke of the automation.
		OD - Obstacle during opening - gate wing 1	Check for the presence of obstacles along the automation stroke.
	OE	OE - Obstacle during closure - gate wing 1	Check for the presence of obstacles along the automation stroke.
	OF	OF - Obstacle during opening - gate wing 2	Check for the presence of obstacles along the automation stroke.
	06	OG - Obstacle during closure - gate wing 2	Check for the presence of obstacles along the automation stroke.
Set- tings alarm	56	S6 - Incorrect setting of safety device test	Check the configuration of parameters $16.19.69$. If 69.541 , 16.69 and 19.69 cannot be 94.07 or 541 .
Service	110	V0 - Request for maintenance intervention	Proceed with the scheduled maintenance intervention.
ontrol	I5	or short-circuit on accessories)	Check there is no short circuit in connection 0-1. If the problem persists, replace the control panel.
Internal control panel alarm	I 6	16 - Excessive voltage 0-1 (faulty voltage regulator)	Replace the control panel.
Inter	I7	17 - Internal parameter error - value outside limits	Reset. If the problem persists, replace the control panel.

Type of alarm	Display	Description	Operation
	TA	18 - Program sequence error	Reset. If the problem persists, replace the control panel.
	ĪĀ	IA - Internal parameter error (EEPROM/ FLASH)	Reset. If the problem persists, replace the control panel.
	ĪB	IB - Internal parameter error (RAM)	Reset. If the problem persists, replace the control panel.
	ĪĒ	IC - Operation time-out error (>5 min or >7 min in learning mode)	Manually check that the gate wing moves freely. If the problem persists, replace the control panel.
	IE	IE - Power supply circuit fault	Reset. If the problem persists, replace the control panel.
	IM	IM - MOSFET alarm - motor 1 in short circuit or always ON	Reset. If the problem persists, replace the control panel.
alarm	IN	IN - MOSFET alarm - motor 2 in short circuit or always ON	Reset. If the problem persists, replace the control panel.
l panel	$I \square$	10 - Interrupted power circuit - motor 1 (motor MOSFET open or always OFF)	Reset. If the problem persists, replace the control panel.
control	IP	IP - Interrupted power circuit - motor 2 (motor MOSFET open or always OFF)	Reset. If the problem persists, replace the control panel.
Internal control panel alarm	IR	IR - Relay stuck or faulty	Cut power to the electronic control panel. Strike the relay lightly with a screwdriver. Switch on the control panel. If the problem persists, replace the control panel.
	I5	IS - Error on current read circuit test - motor 1	Reset. If the problem persists, replace the control panel.
	IT	IT - Error on current read circuit test - motor 2	Reset. If the problem persists, replace the control panel.
	IU	IU - Error on voltage read circuit test - motor 1	Reset. If the problem persists, replace the control panel.
	IV	IV - Error on voltage read circuit test - motor 2	Reset. If the problem persists, replace the control panel.
	XX	XX - Firmware reset commanded by the sir	nultaneous pressing of the 🚾 + 💆 keys.
	NI	WD - Firmware reset not commanded	
ırm	RØ	ing over 100 stored remote controls	To save the system configurations on the storage module, delete any stored remote controls and bring the total to less than 100. Set $\mathbb{R}^{\square} \to \mathbb{M} \sqcup \to \mathbb{I}^{\square}$.
Radio operations alarm	R3	R3 - Storage module not detected	Insert a storage module.
operati	RH	R4 - Storage module not compatible with the control panel	Insert a compatible storage module.
Radio	RS	R5 - No serial communication with the storage module	Replace the storage module.
	R ₅	R6 - Insertion of a specific storage module for testing	
Power supply alarm	PØ	PO - No mains voltage	Check the control panel is powered correctly. Check the line fuse. Check the mains power supply.
Power	P 1	P1 - Microswitch voltage too low	Check the control panel is powered correctly.

12. Troubleshooting

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
	Overload on output 0-1		Disconnect any loads connected to terminal 1
The automation does not open or	No power.		Check power supply cable.
close.	Short circuited accessories	I5	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.	1-6 68 1-8	Check that the safety contacts are closed correctly (NC).
	Safety contacts not correctly con- nected or self-controlled safety edge not functioning correctly.	H368	sett-controlled safety edge.
	Photocells activated.	1-61-8	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	MBMC	Check motor connection, if the problem persists, contact Technical Service.
The external safety devices are not activated.	Incorrect connections between the photocells and the control panel.		Check that I - 6 / I - 6 is displayed Connect NC safety contacts together in series and remove any jumpers on the control panel terminal board
			Check the $\ensuremath{HP} \to \ensuremath{\mathbf{J6}}$ and $\ensuremath{HP} \to \ensuremath{\mathbf{J8}}$ setting
The automation opens/closes briefly and then stops	There is a presence of friction.	MI	Manually check that the automation moves freely and check the 1/P adjustment. Contact Technical Service

Problem	Possible cause	Alarm signalling	Operation
has limited range and	The radio transmission is impeded by metal structures and reinforced concrete walls.		Install the antenna outside. Replace the transmitter batteries.
The remote control does not work	No storage module or incorrect storage module.		Switch the automation off and plug in the correct storage module.
	RO 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

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