

# Dítec 



## Ditec ION4-ION6

Sliding gates
Technical manual
(translation of the original instructions)

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## General safety precautions <br> 

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 $\bullet$ 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 $\bullet$ 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 $\bullet$ 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 ION4-6 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 61000-6-3:2007 + A1:2011 + AC:2012 EN 61000-6-2:2019
EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021
EN 60335-2-103:2015
EN 62233:2008 + AC:2008 EN ISO 13849-1:2015
ETSI EN 300 220-2 V3.2.1 ETSI EN 300 220-1 V3.1.1
ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-3 V2.1.1
Other standards or technical specifications which have been applied:
IEC 60335-1:2010 + C1:2010 + C2:2011 + A2:2013 + C1:2014 + A2:2016 + C1:2016
IEC 60335-2-103:2006 + A1:2010 EN 12453:2017
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 2023-09-07


CEO Ditec

## 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 ION4-6 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 (RoWS)

Harmonized European standards that have been applied:
EN 61000-6-3:2007 + A1:2011 + AC:2012 EN 61000-6-2:2019
EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021
EN 60335-2-103:2015
EN 62233:2008 + AC:2008 EN ISO 13849-1:2015
ETSI EN 300 220-2 V3.2.1 ETSI EN 300 220-1 V3.1.1
ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-3 V2.1.1
Other standards or technical specifications that have been applied:
IEC 60335-1:2010 + C1:2010 + C2:2011 + A2:2013 + C1:2014 + A2:2016 + C1:2016
IEC 60335-2-103:2006 + A1:2010 EN 12453:2017
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
Origgio 2023-09-07

Position
CEO Ditec

Signature


## 1. Caractéristiques techniques

|  | Ditec ION4 | Ditec ION4J | Ditec ION6 | Ditec ION6J |
| :---: | :---: | :---: | :---: | :---: |
| Maximum stroke | 12 m |  |  |  |
| Maximum gate weight | 400 kg |  | 600 kg |  |
| Gate speed | 0,1 $\div 0,3 \mathrm{~m} / \mathrm{s}$ |  |  |  |
| Thrust | 200 N nominaux, 600 N de démarrage |  | 300 N nominaux, 800 N de démarrage |  |
| Power supply | $230 \mathrm{~V} \sim 50 / 60 \mathrm{~Hz}$ | $120 \mathrm{~V} \sim 50 / 60 \mathrm{~Hz}$ | $230 \mathrm{~V} \sim 50 / 60 \mathrm{~Hz}$ | $120 \mathrm{~V} \sim 50 / 60 \mathrm{~Hz}$ |
| Power absorption | 0,45 A | 0,9 A | 0,6 A | 1,2 A |
| Fuse | T1A | F2A | F1,6A | F3,15A |
| Power | 100 W |  | 130 W |  |
| Service class | FRÉQUENT (testé jusqu'à 150.000 cycles) |  |  |  |
| Intermittence | $\begin{gathered} \mathrm{S} 2=30 \mathrm{~min}\left(\mathrm{~T}=25^{\circ} \mathrm{C}\right) \\ \mathrm{S} 3=60 \%\left(\mathrm{~T}=25^{\circ} \mathrm{C}\right) \end{gathered}$ |  |  |  |
| Cycles / day * | $800\left(\mathrm{~T}=25^{\circ} \mathrm{C}\right)$ |  |  |  |
| Continuous cycles * | $30\left(\mathrm{~T}=25^{\circ} \mathrm{C}\right)$ |  |  |  |
| Lifespan | De 50000 à 150000 cycles en fonction des conditions reportées dans le tableau lvoir instructions complètes). |  |  |  |
| Usage temperature ( $T$ ) | (20 |  |  |  |
| Degré de protection | IP44 |  |  |  |
| Motor output | 24V-:-10A max |  |  |  |
| Power supply to accessories | 24V =. 0,3A max |  |  |  |
| Control panel | LCU48 |  |  |  |
| Radio frequency | $\begin{aligned} & 433,92 \mathrm{MHz} \\ & \text { (cod. ZENRS) } \\ & 868,35 \mathrm{MHz} \\ & \text { (cod. ZENPRS) } \end{aligned}$ | i <br> ZENRS receiver module included, ZENPRS optional |  |  |
| Storable radio codes |  |  |  |  |
| Noise level $\mathrm{L}_{\text {PA }}$ | $\leqslant 70 \mathrm{~dB}(\mathrm{~A})$ |  |  |  |
| * Indicative cycles considering a 6 m wing and factory settings (default speed of $20 \mathrm{~cm} / \mathrm{s}$ ). ION4 / ION6 allows a maximum speed of $30 \mathrm{~cm} / \mathrm{s}$ (configurable). A cycle is considered an opening followed by a closing. |  |  |  |  |


| Index of conditioning factors |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  | ION4 | ION6 |
| Gate wing weight | > 150 Kg | 10 | - |
|  | >200Kg | 20 | 10 |
|  | >300Kg | 30 | 20 |
|  | >400Kg | - | 30 |
| Gate wing width | >4m | 20 | 10 |
|  | >8m | - | 20 |
| Wheel diameter $<100 \mathrm{~mm}$ |  |  | 10 |
| Saline environment |  |  | 10 |
| Safety edge installed |  |  | 10 |
| R1/R2 > default |  |  | 10 |
| VA/VC > default OC/CB < default |  |  | 10 |


| Example of lifespan calculation for ION4 |  |
| :--- | :---: |
| Gate wing weight $>\mathbf{1 5 0 K g}$ | 10 |
| Gate wing width $\mathbf{4 . 5 m}$ | 10 |
| Dust | 10 |
| Safety edges installed | 10 |
| VA/VC $>$ default | 10 |
| Total stress index | 50 |
| Estimated lifespan $\mathbf{- 8 0 , 0 0 0}$ cycles |  |
| Estimated daily cycles $\mathbf{2 2}$ (for $\mathbf{1 0}$ years) |  |




### 1.1 Operating instructions

Use: FREQUENT for condominium, industrial and commercial, car park 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.


### 1.2 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.


## 2. Standard installation



| Ref. | Code | Description | Cable |
| :---: | :---: | :---: | :---: |
| 1 | Ditec ION4-ION6 | Actuator ION with control panel | $3 \mathrm{G} \times 1.5 \mathrm{~mm}^{2}$ |
| A |  | Connect the power supply to a type-approved omnipolar switch, with a contact opening distance of at least 3 mm (not supplied). See chapter 6 . <br> The connection to the mains must follow an independent path, separate from the connections to the control and safety devices. |  |
| 2 | ZEN | Transmitter | 1 |
|  | FLM | Flashing light | $2 \times 1 \mathrm{~mm}^{2}$ |
| 3 | FL24 | Antenna (integrated in the flashing light) | RG-58 coax cable ( 50 ) |
|  | AXK4 | Digital combination wireless keypad | I |
| 4 | AXK5M <br> AXK5N <br> AXK5NM <br> 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 | $4 \times 0.5 \mathrm{~mm}^{2}$ |
|  | AXR7 | RFID reader unit | $5 \times 0.5 \mathrm{~mm}^{2}$ |
| 5 | LIN2 <br> LIN2B <br> AXP2 <br> LAB4 | Photocells | $4 \times 0.5 \mathrm{~mm}^{2}$ |
| 6 | $\begin{aligned} & \text { SOFAP20 } \\ & \text { SOF2M20-SOF3M20 } \\ & \text { SOFA15-SOFA20- } \\ & \text { SOFA25 } \end{aligned}$ | Safety edge | $2 \times 0,5 \mathrm{~mm}^{2} \mathrm{~min}$ |
| 7 | GOPAV | Radio system for sensitive edges | 1 |
| 8 | LAB9 | Magnetic loop | $2 \times 1,5 \mathrm{~mm}^{2}$ |

## 3. Dimensions



## 4. Main components



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| Ref. |  |
| :---: | :--- |
| $\mathbf{1}$ | Motor |
| 2 | Control panel |
| 3 | Key release |
| $\mathbf{4}$ | Pinion |
| 5 | Cable inlet |
| 6 | Power supply terminal and fuse |

## 5. 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.

### 5.1 Preliminary checks

Check the stability of the wing (derailing and lateral falls) and the sliding wheels and that the upper guides do not cause any friction.
The sliding guide must be securely fixed to the ground for the full length within doorway and must have no irregularities that could hinder the movement of the wing.
The opening and closing stops must be fitted.
If the gate has slits, make sure they are covered to prevent shearing points or install active safety edges on the columns.
Safety device should be installed at the end of the wing to reduce the collision force.

## 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.


### 5.2 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).


### 5.3 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].
NOTE: during the vertical adjustment, keep the gearmotor slightly raised from the base plate so that the rack can be fixed and subsequent adjustments are possible.
- After adjusting, fix the gearmotor using screws [B].

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

### 5.4 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.


### 5.5 Operation with virtual encoder

ION4-ION6 gearmotors do not require limit switches because they have a virtual encoder.
Mechanical opening and closing end stops must be installed.
The gate automatically slows when approaching the end stops.
WARNING: when the gate reaches the opening or closing limit stop, it reverses briefly to facilitate manual release of the gearmotor.

### 5.6 Installation of optional accessories

### 5.6.1 Magnetic limit switches

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

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

For the installation of the limit switch kit, refer to the NES100FCM manual.
To position the limit switches, you can use the menu $\bar{\zeta} F \rightarrow T F$ (visible by activating the additional configurations AT $\rightarrow$ RR).
The display shows the status of the limit switches:

- FR: opening limit switch configured and activated;
- F [: closing limit switch configured and activated;
- N.L. (both parts of display active): opening limit switch not configured and activated;
- $N \square$ (no part of display active): closing limit switch not configured and activated;
- ■ (central part of display active): no limit switch activated.

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

### 5.6.2 Battery kit

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


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

### 5.6.3 Remote release handle

For installation of the remote release handle, refer to the IONSBM and ASR2 manual.
The kit can be used to remotely release the gearmotor.
i A microswitch guarantees safety.
When the handle is released, the control panel performs a reset

## 6. Electrical connections



$\triangle$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 $\Theta$ ( (yellow/green) to the earth 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 and only unsheathe it at the terminal.
Connections to the electrical distribution network and any other low-voltage conductors (230 V ), 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.

Ensure that the mains connection cables, any other low-voltage cables ( 230 V ), 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.
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7.1 ION4-6 parallel installation layout


## 8. Using of the menus

### 8.1 Switching the display ON and OFF

The procedure to switch on the display is as follows: $\square$

- press the ENTER key ENTER
- the display functioning check starts
四

The procedure to switch off the display is as follows:
- press the ESC key

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

### 8.2 Navigation keys

- The simultaneous pressing of the $\uparrow$ and ENTER keys produces an opening command.

- The simultaneous pressing of the $\downarrow$ and ENTER keys produces a closing command.

- The simultaneous pressing of the $\uparrow$ and $\downarrow$ keys produces a POWER RESET command lpower supply interruption and automation restart).

- Keep the UP $\uparrow$ or DOWN $\downarrow$ key pressed to begin fast menu scrolling.

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


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




## 9. Product start-up

For rapid configuration of the product, use the WIZARD (WZ) menu or the second level AT (Automatic Configurations) menu [See par. 13.2].
For detailed, customised configuration, use the main menus BC, BA, RO, SF, CC, EM, AP.

### 9.1 WZ configuration wizard menu

To access the WZ configuration wizard menu:
Hold down the ENTER button for 2 seconds.
When OK has stopped flashing, DM, the first menu parameter, is displayed.
W! ( WHER for 2 sec . DK II

## To set a parameter:

1. Press ENTER to access the configuration items.
2. Scroll UP/DOWN the possible options.
3. To confirm, press the ENTER button for 2 seconds. The selected value flashes and when it has finished, the next parameter appears.
IMM 只T [5] for 2 sec. (RT) [5
Disper
(default)

- ME: $20 \mathrm{~cm} / \mathrm{s}$
- NO: $25 \mathrm{~cm} / \mathrm{s}$


## To save the configuration:

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


## To quit without saving changes:

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

## CD (

Or: from any main parameter, press the ESC button for 2 seconds.
Example
IIM IMEC for 2 sec


## NOTES:

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


## 10．Commands

You are advised to read paragraph 13 for all the details about the possible adjust－ ments．

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

| Command |  | Function | Description |
| :---: | :---: | :---: | :---: |
| $30-5$ | NO | STEP－BY－STEP | When selecting $B[\rightarrow[5 \rightarrow 1-5$ ，the closure of the contact activates a sequential opening or closing operation：opening－stop－ closing－opening． <br> WARNING：if automatic closure is enabled，the duration of the stop can be defined by selecting $B[\rightarrow 55$ ． <br> The＂opening－stop－closing－opening＂sequence can be changed to＂opening－stop－closing－stop－opening＂by selecting $B[\rightarrow P P$ ． |
|  |  | OPENING | When selecting $B[\rightarrow[5 \rightarrow 1-]$ ，the closure of the contact activates an opening operation． |
| 1 － 6 | NO | CLOSURE | When selecting $刀[\rightarrow 54 \rightarrow \mid-4$ ，closing the contact activates a closing operation． |
| $1 \longrightarrow 6$ | NC | SAFETY STOP | When selecting $B[\rightarrow 54 \rightarrow 1-5$ ．opening of the safety contact stops and prevents any movement． <br> NOTE：to set different safety contact functions，see the RP $\rightarrow$ 丂M parameter settings． |
| $1 \longrightarrow 8$ | NC | CLOSING SAFETY DEVICE | The opening of the safety contact triggers a reversal of the movement （reopening）during the closing operation． <br> When selecting $B[\rightarrow \bar{J} \square \rightarrow \square N$ ，the opening of the contact prevents any operation when the automation is idle． <br> When selecting $B[\rightarrow \bar{\square} \square \rightarrow \square F$ ，the opening of the contact only prevents closure when the automation is idle． |
|  | 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 $A P \rightarrow$ ラM $\rightarrow$ ロ 5. |
| －－ 20 | NO | PARTIAL OPENING | The closure of the contact activates a partial opening operation． Once the automation stops，the partial opening control performs the opposite operation to the one performed before the stop． |
| $1 \longrightarrow 20$ | NC | AUTOMATIC CLOSURE OR STOP | Selecting $A P \rightarrow \sum \Omega \rightarrow 1-己$ ，the permanent closure of the contact enables automatic closure if $A[\rightarrow 1-己$ ． <br> Selecting $A P \rightarrow$ 目 $\rightarrow$－ 9 ，the opening of the safety contact causes the movement to stop． <br> 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．

## 10．1 SOFA1－SOFA2 or GOPAVRS self－controlled safety edge

| Command |  | Function | Description |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { SOFA1-SOFA2 } \\ & \text { GOPAV } \\ & \hline \end{aligned}$ |  | SAFETY TEST | Insert the SOFA1－SOFA2 or GOPAVRS device in the slot for plug－in boards AUX1 or AUX2． <br> If the test fails，an alarm message appears on the display． |
| $00000$ |  |  |  |
| $1-6$ | NC | SAFETY STOP | When selecting RP $\rightarrow$ ID $\rightarrow$ 「 41 ，connect the output contact of the safety device to terminals 1－6 on the con－ trol panel lin series with the photocell output contact，if installed）． |
| $1 \longrightarrow 8$ | NC | CLOSURE SAFETY DEVICE | When selecting AP $\rightarrow 7 B \rightarrow \overline{5} 4$ ，connect the output contact of the safety device to terminals 1－8 on the con－ trol panel lin series with the photocell output contact，if installed）． |
|  | NC | CLOSING／OPEN－ <br> ING SAFETY <br> DEVICE | When selecting RP $\rightarrow 5 \mathrm{~B} \rightarrow \overline{5} 4 \mathrm{l}$ ，connect the output contact of the safety device to terminals 1－6－8 on the control panel lin series with the photocell output contact， if installed）． <br>  |

## 11．Outputs and accessories

| Output | Value of accessories | Description |
| :---: | :---: | :---: |
|  | 24V…／0．3A | Power supply to accessories <br> Output for power supply to external accessories． <br> NOTE：the maximum absorption of 0.3 A corresponds to the sum of all terminals 1. |
| 日同 | ANTENNA | Input for external antenna GOL148REA or hard－wire antenna，set according to the operating frequency of the receiver module used． |
|  | 24 V －／／ 25 W Max． | Configurable 24 V configurable（default：flashing light） <br> The pre－flashing settings can be selected from the third level menu $A P \rightarrow W D$ and／or AP $\rightarrow W[$ ． <br> To modify the operating mode of the LP output，refer to the selection $B A \rightarrow F F$ ． |
| AUX | $\begin{gathered} \text { BIXR2 } \\ \text { BIXPR2 } \\ \text { LAB9 } \\ \text { LAN7S } \\ \text { SOFA1 - SOFA2 } \\ \text { GOPAVRS } \end{gathered}$ | The control panel has a slot for plug－in command and safety cards． The action of the control card can be defined by selecting $B[\rightarrow R M$ ． When using slot－in radio boards，remove the RX module．The display will show Rl＇． <br> WARNING：the plug－in board must be inserted and removed with the power supply disconnected． <br> WARNING：BIXLR42 not compatible with AUX slot． |
|  | ZENRS ZENPRS | The control panel is fitted with a housing for modules of the ZENRS radio receiver type（ 433.92 MHz ）． <br> Can be replaced with a module of the ZENPRS radio receiver type （ 868.35 MHz ）． <br> When using slot－in radio boards，remove the RX module．The display will show Rl． <br> WARNING：the modules must be inserted and removed with the power supply disconnected． |


| Output | Value of accessories | Description |
| :---: | :---: | :---: |
| COM |  | COM - This allows the functioning configurations to be saved using the <br>  <br> The saved configurations can be recalled using the function $\bar{\zeta} F \rightarrow R[$. |
|  | 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. <br> WARNING: the storage module must be inserted and removed with the power supply disconnected, and paying attention to the positioning direction. |
| $\begin{aligned} & \text { BAT } \\ & \begin{array}{\|l\|l\|} \hline \because & \cdot \\ \hline: & \cdot \\ \hline \end{array} \end{aligned}$ | SBU | BAT - Battery-powered operation <br> The batteries are kept charged when the power supply is on. If the power supply is off, the panel is powered by the batteries until the power is reestablish or until the battery voltage drops below the safety threshold. The control panel turns off in the last case. <br> WARNING: the batteries must always be connected to the control panel for charging. Periodically check the efficiency of the batteries. <br> NOTE: the operating temperature of the rechargeable batteries is from $+5^{\circ} \mathrm{C}$ to $+40^{\circ} \mathrm{C}$. <br> For advanced control of battery-powered operation, refer to the menu EM. |

## 12. Jumper setting

| Jumper | Description | OFF | ON |
| :---: | :--- | :--- | :--- |
| JR1 | Display mode selection. | Display mode. <br> Only the values and pa- <br> rameters present can be <br> displayed. | Maintenance mode. <br> Only the values and pa- <br> rameters present can be <br> displayed and modified. <br> Activated maintenance <br> mode is indicated by the |
| permanent switching on of |  |  |  |
| the right-hand point on the |  |  |  |
| display. |  |  |  |


| Jumper | Description | 30 | 1 |
| :---: | :--- | :--- | :--- |
| JR5 | Selection of power supply - auxil- <br> iary board. | AUX1 powered from 0-1. <br> (default) | AUX1 powered from 0-30. |

## 13. Adjustments

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

### 13.1 Main menu

| Display | Description |
| :---: | :---: |
| $\begin{array}{lll} 1 & 1 \\ V N \end{array}$ | WZ - Wizard <br> Quick configuration menu |
|  | AT - Automatic Configurations <br> The menu allows you to manage the automatic configurations of the control panel. |
|  | BC - Basic Configurations <br> The menu allows you to display and modify the main settings of the control panel. |
| $\pi, \infty$ | BA - Basic Adjustments <br> 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. |
| $\square 10$ | RO - Radio Operations <br> The menu is used to manage the radio functions of the control panel (alarm management, diagnostics enabling, FW updating). |
|  | SF - Special Functions <br> The menu allows you to set the password and manage the special functions in the control panel. |
|  | CC - Cycles Counter <br> The menu allows you to display the number of operations carried out by the automation and manage the maintenance interventions. |
| $E M 1$ | EM - Energy Management <br> The menu allows you to display and modify the energy saving settings and adjustments (Green Mode and battery management). |
|  | AP - Advanced Parameters <br> 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.). <br> 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 $\sqrt{\triangle}$ and $\sqrt{\boxed{\nabla}}$ keys to select the required function
- press $\sqrt{\boxed{E N T E R}}$ 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 $\square$ 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.

### 13.2 Second level menu - AT (Automatic Configurations)

DM - Direction mode
RT-opens to the right
LF-open to the left
H0 - Predefined setting, residential use 0
This selection loads predefined values for certain standard parameters:
AC - enabling of automatic closing
C5 - step-by-step/opening command operation
RM - remote control operation
AM - AUX plug-in board operation
SS - Selection of automation status at start-up

### 13.3Second level menu - BC (Basic Configurations)

Display | Description |
| :--- |

13.3.1 Additional BC level parameters that can be configured lavailable with ค $T \rightarrow$ ค月 enabled)


### 13.4 Second level menu - BA (Basic Adjustment)



### 13.4.1 Additional BA level parameters that can be configured lavailable with $\cap T \rightarrow$ ค $\boldsymbol{\square}$ enabled)

Description
DT - Adjustment of obstacle recognition time [s/100]
$10-$ Minimum
n0-Maximum
NOTE: the parameter is adjusted in hundredths of a second.
ST - Adjustment of start time [s]
$0.5-$ - Minimum
3.0-Maximum

[^0]Description
Display operations to allow the control panel to be set correctly and detect any friction during operations.

### 13.5Second level menu - RO (Radio Operations)



WARNING: selecting MU $\rightarrow$ 驹 (200 remote controls), the configurations $U 1$ and $U 己$ saved with the $\bar{\zeta} \rightarrow \bar{J} b^{\prime}$ command will be lost. This also applies for the last configuration reloaded with RL. In addition, new configurations cannot be saved on $\cup 1$ and $\cup$ ?

|  | Display | Description | Selections available |
| :---: | :---: | :---: | :---: |
|  | Ei | RK - Menu navigation using remote control keyboard <br> ON - Enabled <br> OF - Disabled <br> With the display turned off, quickly type in the sequence of keys <br> (2) (4) from the stored remote control you want to use. <br> Make sure all the CH keys are stored. <br> WARNING: during navigation with a remote control keyboard ALL the stored remote controls are inactive. <br> To make viewing and adjustment easier lavoiding the need to continuously press the remote control), press the UP $\uparrow$ or DOWN $\downarrow$ key once to begin slowly scrolling through the parameters. <br> This scrolling movement is faster if the UP $\uparrow$ or DOWN $\downarrow$ key is pressed twice. <br> To stop the scrolling, press ENTER. <br> To confirm your choice of parameter, press ENTER again. <br> To test any new setting, switch off the display and issue an opening command using key (3). <br> Navigation using a remote control keyboard is automatically disabled after 4 minutes of inactivity or by setting $R K \rightarrow \square F$. | Fing Fivic |

### 13.5.1 Additional RO level parameters that can be configured (available with ค T $\rightarrow$ ค口 enabled)


Selections
available

### 13.6 Second level menu - SF (Special Functions)

Display
SR

## 13．6．1 Additional SF level parameters that can be configured lavailable with $\boldsymbol{\text { 月 }} \rightarrow$ 月月 enabled）

ENE

| Display | Description |
| :---: | :---: |
|  | UP - Firmware update <br> Activates the card bootloader in order to update the firmware. Use USBPROG and AMIGO software, following the procedure: |

### 13.7 Second level menu - CC (Cycles Counter)

Display

### 13.7.1 Additional CC level parameters that can be configured lavailable with $T \rightarrow$ Я $T$ enabled)



### 13.8 Second level menu - EM (Energy Management)



### 13.8.1 Additional EM level parameters that can be configured lavailable with คT $\rightarrow$ ЯЯ enabled)

Display

### 13.9 Second level menu - AP (Advanced Parameters)

Description
Display

[^1] operations to allow the control panel to be set correctly and detect any friction during operations.

### 13.9.1 Additional AP level parameters that can be configured lavailable with คT $\rightarrow$ ЯЯ enabled)

|  | Display | Description | Selections available |
| :---: | :---: | :---: | :---: |
|  | $\left[\begin{array}{l} \square \\ \square \end{array}\right.$ | 20 - Partial opening command of terminal 1-20 <br> P3 - Partial opening command <br> 1-2 - Enabling of automatic closure <br> 1-9-Stop input | $\square \rightarrow 1:-\square$ |
|  |  | LU - Setting the courtesy light switch-on time (s) <br> To enable the parameter, set the selection $B \cap \rightarrow F F$ as "courtesy light". It is set with different intervals of sensitivity. <br> NO - Disabled <br> - from $01^{\prime \prime}$ to $59^{\prime \prime}$ with intervals of 1 second <br> - from $1^{\prime}$ to $2^{\prime}$ with intervals of 10 seconds <br> - from 2' to $3^{\prime}$ with intervals of 1 minute <br> ON - Permanently enabled (switched off via remote control) <br> NOTE: the courtesy light switches on at the start of each operation. |  |
|  |  | LG - Switch-on time for independently commanded courtesy light [s] To enable the parameter, set the selection BA $\rightarrow$ F F as "courtesy light" It is set with different intervals of sensitivity. <br> NO - Disabled <br> - from $01^{\prime \prime}$ to $59^{\prime \prime}$ with intervals of 1 second <br> - from $1^{\prime}$ to $2^{\prime}$ with intervals of 10 seconds <br> - from 2' to $3^{\prime}$ with intervals of 1 minute <br> ON - Switched on and off with remote control |  |
|  |  | NOTE: the switching on of the light does not depend on the start of an operation, but can be commanded separately using the special remote control key. |  |
|  | $1$ | PT - Fixed partial opening <br> ON - Enabled <br> OF - Disabled <br> If ON , a partial opening command given on the partial opening position is ignored. With contact 1-20 closed (for example with the timer or manual selector), the gate will partially open. If it is then fully opened (command 1-3) and reclosed (even with automatic closure), it will stop at the partial opening position. | Finc Fi F |
|  |  | DE - Disengagement setting if an edge is triggered [cm] <br> Regulates the disengagement distance when an edge (active or passive) is triggered during opening or closure. <br> 00 - Deactivated <br> 20 - Maximum |  |
|  |  | DO - Setting of disengagement on stop during opening [mm] Regulates the distance of the disengagement on the mechanical opening stop. 00 - Disabled <br> 15 - Maximum <br> NOTE: not active if $F$ R $\rightarrow 5 \%$ |  |
|  |  | DC - Setting of disengagement on stop during closure [mm] Regulates the distance of the disengagement on the mechanical opening stop. 00 - Disabled <br> 99 - Maximum <br> NOTE: not active if $F[\rightarrow \bar{\zeta} \%$ |  |

[^2]
Display
WC - Setting of pre-flashing time on closing [s]
Adjustment of the lead time for the switch-on of the flashing light, in
relation to the start of the closing operation from a voluntary command.
00 - Minimum
05 - Maximum

## 14. Signals visualised on the display

 may not be available.
### 14.1 Display of automation status

 set to 02 .

|  | Automation closed |
| :--- | :--- |


| Display | Description |
| :---: | :---: |
|  | IIN M I E |
| $-7$ | Automation closed |
| $\begin{aligned} & -7 \\ & -\cdots \end{aligned}$ | Automation closed Release door open |
| 1 | Automation open |
| 11. | Automation open Release door open |
| 7 | Automation stopped in intermediate position |
| 7 | Automation stopped in intermediate position Release door open |
| $\begin{array}{ll} N \\ V \end{array}$ | Automation closing |
| N | Automation that slows down during closing. |
| $\hat{y} \hat{y}$ | Automation opening |
| V | Automation that slows down during opening. |

### 14.2 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 .

Description
R

### 14.3Visualisation 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 |
| :---: | :---: | :---: | :---: |
|  | $1[$ | 15-No voltage 0-1 (faulty voltage regulator or short-circuit on accessories) | Check there is no short circuit in connection 0-1. <br> If the problem persists, replace the control panel. |
|  | $1$ | 16 - Excessive voltage 0-1 (faulty voltage regulator) | Replace the control panel. |
|  | $17$ | I7 - Internal parameter error - value outside limits | Reset. <br> If the problem persists, replace the control panel. |
|  | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | 18 - Program sequence error | Reset. <br> If the problem persists, replace the control panel. |
|  | $11$ | IA - Internal parameter error (EEPROM/ FLASH) | Reset. <br> If the problem persists, replace the control panel. |
|  | $17$ | IB - Internal parameter error (RAM) | Reset. <br> If the problem persists, replace the control panel. |
|  | $15$ | IC - Operation time-out error ( $>5 \mathrm{~min}$ or $>7$ min in learning mode) | Manually check that the gate moves freely. If the problem persists, replace the control panel. |
|  |  | IE - Power supply circuit fault | Reset. <br> If the problem persists, replace the control panel. |
|  | $\begin{aligned} & T M 1 \\ & 111 \end{aligned}$ | IM - MOSFET alarm - motor in short circuit or always ON | Reset. <br> If the problem persists, replace the control panel. <br> Check the settings / operating of any limit switches. |
|  | $10$ | IO - Interrupted motor power circuit (motor MOSFET open or always OFF) | Reset. <br> If the problem persists, replace the control panel. |
|  | $10$ | IR - Motor relay error | Reset. <br> If the problem persists, replace the control panel. |
|  | $1]$ | IS - Error on motor current read circuit test | Reset. <br> If the problem persists, replace the control panel. |
|  | $111$ | IU - Error on motor voltage read circuit test | Reset. <br> If the problem persists, replace the control panel. |
|  | 15 | TH - Intervention of high temperature safety device | Do not carry out any operations. If the problem persists, contact Technical Service. |
|  | 1/ 1\% | VH - Automation blocked due to high temperature | Do not carry out any operations. If the problem persists, contact Technical Service. |
|  | $\begin{array}{ll} 11 \\ 11 \end{array}$ | XX - Firmware reset commanded by the sim keys | ultaneous pressing of the $\square$ $\triangle$ $+$ $\square$ $\nabla$ <br>  |
|  | 111 | WD - Firmware reset not commanded |  |


| Type of alarm | Display | Description | Operation |
| :---: | :---: | :---: | :---: |
| $\varepsilon$ <br> $\frac{1}{0}$ <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 |  | RO - Insertion of a storage module containing over 100 stored remote controls WARNING: the R口 $\rightarrow M \cup \rightarrow$ 己 $\square$ setting 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 R $\square \rightarrow$ M $U \rightarrow 10$. |
|  |  | R3-Storage module not detected | Insert a storage module. |
|  |  | R4 - Storage module not compatible with the control panel | Insert a compatible storage module. |
|  | $10$ | R5 - No serial communication with the storage module | Replace the storage module. |
|  |  | R6 - Insertion of a specific storage module for testing |  |
|  |  | PO - No mains voltage | Check the control panel is powered correctly. Check the line fuse. Check the mains power supply. |
|  |  | P1 - Microswitch voltage too low | Check the control panel is powered correctly. |
| $\begin{aligned} & \lambda \frac{\pi}{z} \\ & \stackrel{y}{ \pm} \\ & \stackrel{y}{0} \\ & \frac{\pi}{0} \end{aligned}$ |  | B0-Battery almost flat | Check battery voltage. Replace battery. |
| $\varepsilon$ <br> $\frac{\varepsilon}{0}$ <br> $\frac{0}{0}$ <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> $U$ <br> $U$ |  | AO - Failure of test of safety sensor on contact 6 <br> A1 - Simultaneous safety sensor test on contacts 6 and 8 failed | Check the device SOFA1-A2 is working correctly. <br> If the supplementary SOF board is not inserted, check the safety test is disabled. |
|  |  |  | Check the wiring and correct operation of the safety sensor. |
|  |  | A3 - Failure of test of safety sensor on contact 8 | Check the device SOFA1-A2 is working correctly. <br> If the supplementary SOF board is not inserted, check the safety test is disabled. |
|  |  | A7 - Incorrect connection of contact 9 to terminal 41 | Check that terminal 1 and 9 are correctly connected. |
|  |  | A9 - Overload on output +LP- | Check the device connected to output +LP- is working properly. |

## 15．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 |
| The automation does not open or close． | No power． |  | Check power supply cable． |
|  | Short circuited accessories | 15 | Disconnect all accessories from termi－ nals 0－1 la voltage of $24 \mathrm{~V}=$ must be pre－ sent）and reconnect them one at a time． Contact Technical Service |
|  | Blown line fuse． |  | Replace fuse． |
|  | Safety contacts are open． | $\begin{array}{ll} 1-6 & 1-8 \\ 68 & \end{array}$ | Check that the safety contacts are closed correctly（NC）． |
|  | Safety contacts not correctly connected or self－controlled safety edge not functioning correctly． | R日 $1-6$ <br> $R 1$ $1-8$ <br> $R 3$ $6 日$ | Check connections to terminals 6－8 on control panel and connections to the self－controlled safety edge． |
|  | Photocells activated． | 1－6 1－6 | Check that the photocells are clean and operating correctly． |
|  | The automatic closure does not work． |  | Issue any command．If the problem per－ sists，contact Technical Service |
|  | Motor fault | MB <br> M4 | Check motor connection，if the problem persists，contact Technical Service． |
|  | Mechanical fault | $\begin{aligned} & \mid M 13 \\ & \|M G\| \end{aligned}$ | Check the rack and transmission chain， and／or the mechanical parts． |
|  | Release microswitch open | らW | Check that the hatch is closed correctly and the microswitch makes contact． |
|  | Faulty control panel | $I$ $T$ $I$ $E$ <br> $I$ $I$   <br> $I$ $I$ $M$  <br> $I$ $\cap$ $I$ $\square$ <br> $I B$ $I$ $R$  | Contact Technical Service |
|  | Both limit switches are active． | $\begin{aligned} & F R . \\ & F[. \end{aligned}$ | Check the connection of the limit switches． |
| The external safety devices are not ac－ tivated． | Incorrect connections be－ tween the photocells and the control panel． |  | Check that $1-6 / 1-\theta$ is displayed Connect NC safety contacts together in series and remove any jumpers on the control panel terminal board． |
|  |  |  | Check the setting of RP $\rightarrow$ DG and月Р $\rightarrow$ 卫日． |
| The automation opens／closes briefly and then stops． | There is a presence of friction． | $\begin{aligned} & M I \\ & M I G \\ & I L \end{aligned}$ | Manually check that the automation moves freely and check the $尺$ 伿 adjustment <br> Contact Technical Service |


| Problem | Possible cause | Alarm signalling | Operation |
| :---: | :---: | :---: | :---: |
| The remote control has limited range and does not work with the automation moving. | The radio transmission is impeded by metal structures and reinforced concrete walls. |  | Install the antenna outside. <br> Replace the transmitter batteries. |
| The remote control does not work | No storage module or incorrect storage module. | $\begin{aligned} & R \square \\ & R \exists \\ & R G \end{aligned}$ | Switch the automation off and plug in the correct storage module. <br> 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. | ค马 | Check the connections. If the problem persists, contact Technical Service. |

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