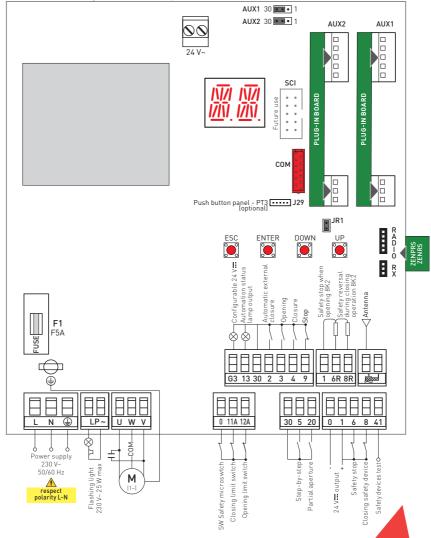




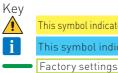
Ditec LCA85

Control panel installation manual for automations with one 230 V~ motor (translation of the original instructions)



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This symbol indicates instructions or notes regarding safety, to which special attention must be paid. This symbol indicates useful information for the correct operation of the product.

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.

EU 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 LCA85 | Control unit for 230 V~ sliding gate and barrier operators |
|--------------|---|
| Ditec LCA85B | Control unit for 230 V~ industrial sectional door operators |

Comply with the following directives and their amendments:

| 2014/35/EU | Low Voltage Directive (LDV) |
|-------------|--|
| 2014/30/EU | Electromagnetic Compatibility Directive (EMCD) |
| 2011/65/EU | 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 + AC:2012 EN 61000-6-2:2019 EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 EN 60529:1991 + A1:2000 + A2:2013 + AC:2016 EN 62233:2008 + AC:2008 EN ISO 13849-1:2015

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 EN 12453:2017

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

Responsible for technical file:

Matteo Fino BSP Ind channel & Gate Automation 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 2022-10-27 Signature Matteo Fin**g**

Position Head of Ind channel & Gate Automation

Talks An

1. Safety functions

The Ditec LCA85 control panel has the following safety functions:

- obstacle recognition with force limiting.

The maximum response time of the safety functions is 0.5 s. The reaction time to a faulty safety function is 0.5 s. The safety functions comply with the standards and performance level indicated below:

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

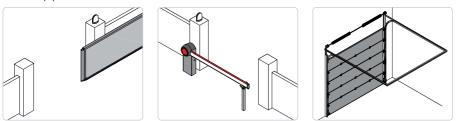
The safety function cannot be bypassed either temporarily or automatically. Fault exclusion has not been applied.

2. Technical specifications

| Power supply | 230 V~, -10% / +10%, 50/60 Hz | | |
|--|--|--|--|
| Power absorption | 4.2 A max | | |
| Fuses | F1= F5A (Motor driver circuits) | | |
| Motor output | 230 V~ 50/60 Hz; 1 x 4 A max | | |
| Permanent power supply to accessories 0-30 | 24 V= 0.3 A max WARNING: the total sum of the | | |
| Power supply to accessories 0-1 | 24 V= 0.3 A max 24 V= 0.3 A max and 24 V- outputs must never | | |
| 24 V~ accessory power supply | 24 V~ 0.3 A max exceed 0.5 A | | |
| 230 V~ flashing light output | 25 W max | | |
| Ambient temperature | , , , , , , , , , , , , , , , , , , , | | |
| Remote controls | 100/200 [see RO \rightarrow MU \rightarrow 10/20] | | |
| Radio frequency | 433.92 MHz (prod. code ZENRS) or 868.35 MHz (prod. code ZENPRS) | | |
| | The receiver module is purchasable separately. | | |
| Degree of protection of the housing | IP55 | | |
| Product size | LCA85: 187x261x103 mm LCA85B: 238x357x120 mm | | |

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

- For wall-mounted control unit:
- Perforate the relevant points in the bottom part of the box (Fig. 3.1 only for wall installation).
- Fix the control panel firmly in place. You are advised to use convex head screws (max head \emptyset 10 mm) with a cross imprint (the centre distance for the holes is shown in Fig. 3.2 only for wall installation).
- Insert the cable glands and corrugated tubes from the lower side of the box.
- 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.
- For connection to the mains supply use type H05VV-F cable if routed through conduit, or type H05RN-F if exposed or for outdoors installation.



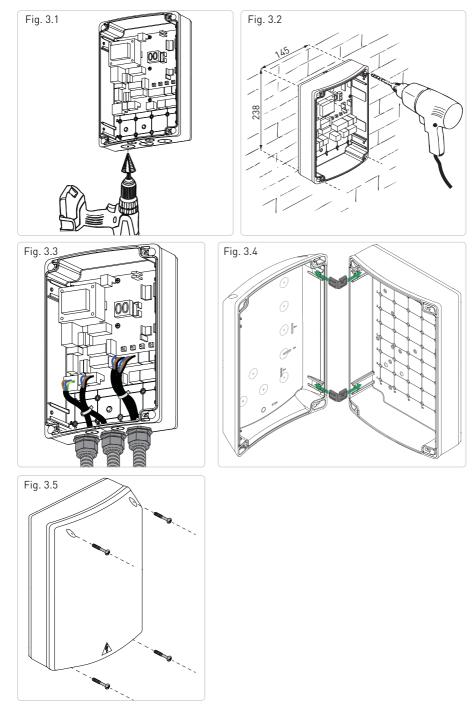
Make sure to respect the L-N polarity indicated in the mains connection terminal block.

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



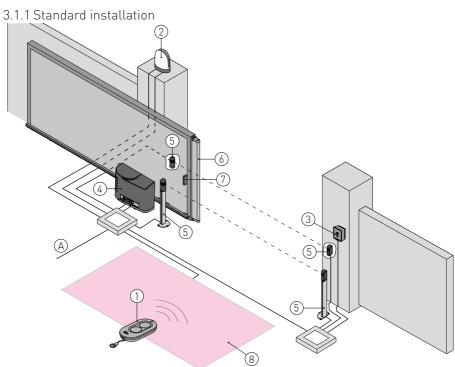
The connections to the mains power supply and to any possible low voltage wires (230 V) in the section outside the control panel must be made on an independent channel separated from the connections to the command and safety devices (SELV= Safety Extra Low Voltage). The corrugated tubes must enter the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

- In order to comply with the essential requisites of the Standards in force, reclose the cover once the wires have been connected to the terminals.
- Make sure there are no sharp edges that may damage the cables.
- Make sure the mains power wires (mains, motor, flashing light 230 V) and the accessory wires (24 V) are separated (Fig. 3.3).
- All the cables must have dual insulation, be sheathed near the relative connection terminals, and be held in place with ties [B] (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).



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3.1 CROSS installation

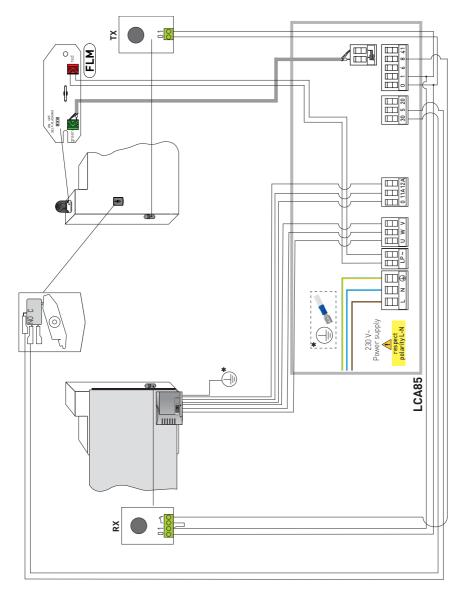


| Rif. | Codice | Descrizione | Cavo |
|------|--|--|----------------------------|
| 1 | ZEN | Transmitter | / |
| | FLM FL24 | Flashing light 230 V Flashing light 24 V | 2 x 1 mm² |
| 2 | | Antenna (integrated in the flashing light) | RG-58 coax cable (50 Ω) |
| | AXK4 | Digital combination wireless keypad | Ĺ |
| 3 | AXK5M AXR5I AXK5NM AXK5NI | Key metal burglar-proof semi-recessed selector switch Key metal burglar-proof wall-mounted selector switch Key metal burglar-proof wall-mounted selector switch Key metal burglar-proof semi-recessed selector switch | 4 x 0.5 mm² |
| | AXR7 | Transponder | 5 x 0.5 mm² |
| 4 | CROSS18EP CROSS18VEP | Actuator (motor) 230 V with mechanical limit switch Actuator (motor) 230 V with magnetic limit switch | 3G x 1.5 mm² |
| А | | Connect the power supply to a certified-compliant omnipo included) with a contact opening distance of at least 3mm. Co mains must be via an independent conduit, separated from th to the command and safety devices. | nnection to the |
| 5 | LIN2 LIN2B AXP2 LAB4 | Photocells Photocells Photocells Photocells IP55 | 4 x 0.5 mm² |
| 6 | S0FAP20 S0F2M20-S0F3M20 S0FA15-S0FA20-S0FA25 | Safety edge Safety edge Safety edge | 2 x 0,5 mm² mini |
| 7 | GOPAV | Radio system for sensitive edges | / |
| 8 | LAB9 | Magnetic loop detector | 2 x 1.5 mm ² |

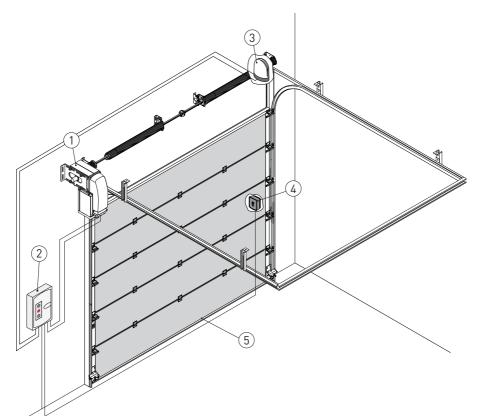
IP2371EN

11

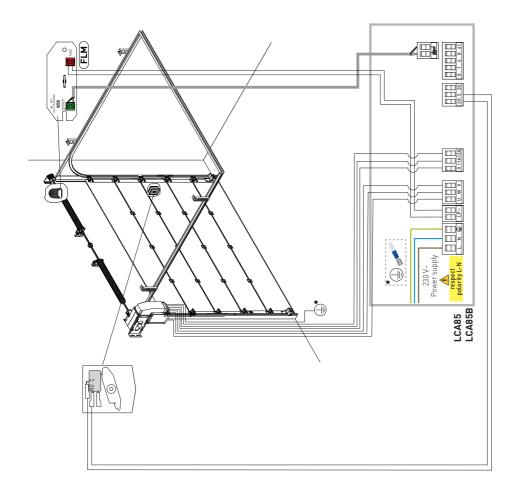
3.1.2 Wiring diagram



- 3.2 DOD14 installation or sectional door automations 230 V~
- 3.2.1 Standard installation

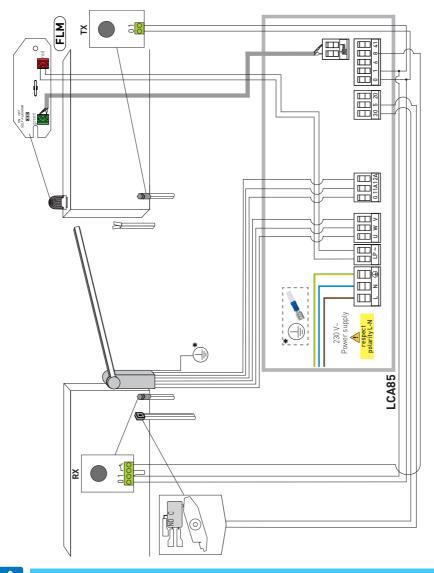


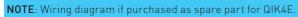
| Ref. | Code | Description | Cable |
|------|--|--|----------------------------|
| 1 | DOD14 | Actuator (motor) | 4 x 1.5 mm ² |
| 1 | 00014 | Extra low voltage limit switch unit | 3 x 0.5 mm ² |
| 2 | LCA85/LCA85B | Control panel | 3G x 1.5 mm ² |
| 3 | FLM FL24 | Flashing light 230 V Flashing light 24 V | 2 x 1mm² |
| 3 | | Antenna (integrated in the flashing light) | RG-58 coax cable (50 Ω) |
| | AXK4 | Digital combination wireless keypad | / |
| 4 | AXK5M AXR5I AXK5NM AXK5NI | Key metal burglar-proof semi-recessed selector switch Key metal burglar-proof wall-mounted selector switch Key metal burglar-proof wall-mounted selector switch Key metal burglar-proof semi-recessed selector switch | 4 x 0.5 mm² |
| | AXR7 | Transponder | 5 x 0.5 mm² |
| 5 | S0FAP20 S0F2M20-S0F3M20 S0FA15-S0FA20-S0FA25 | Safety edge Safety edge Safety edge | 2 x 0,5 mm2 mini |
| | GOPAV | Safety signal's radio transmission system | / |



3.3 Standard installation 230 V~ barrier

3.3.1 Ditec QIK4E standard installation wiring diagram





Commands and safety devices



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



WARNING: terminal 30 (common positive for commands) has the same functions as terminal 1 and for this reason, the commands visible on the display are indicated with 1-5, 1-3, 1-4, etc. However, unlike terminal 1, it is also active when the control panel is in stand by $E \ S \rightarrow O N$.



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.

4.1 Command inputs

| Command | | Function | Description | | |
|---------------|----|--------------------------------|---|--------------|---|
| 30 2 | NO | AUTOMATIC CLOSURE | Selecting $\Pi \Box \rightarrow I \cdot Z$, the permanent closed state of the contact enables automatic closing. | | |
| | | OPENING | When selecting $\mathcal{C} \to \mathcal{C} \to \mathcal{C}$, the closure of the contact activates an opening operation. | | |
| 30 3 | NO | STEP-BY-STEP | When selecting $\mathbb{C} \to \mathbb{C} \to \mathbb{C}$, the closure of the contact activates a sequential opening or closing operation: opening-stop-closing-open- ing. The "opening-stop-closing-opening" sequence can be changed to "opening-stop-closing-stop-opening" by selecting $\mathbb{C} \to \mathbb{P}\mathbb{P}$. | | |
| 30 4 | NO | CLOSURE | Closing of the contact activates a closing operation. | | |
| 30 — 5 | NO | NO | NO | STEP-BY-STEP | When selecting $\mathbb{B}[\rightarrow [\mathbb{S} \rightarrow] \cdot \mathbb{S}$, closing the contact starts 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 $\mathbb{B}[\rightarrow \mathbb{S} \mathbb{S}]$. The "opening-stop-closing-opening" sequence can be changed to "opening-stop-closing-stop-opening" by selecting $\mathbb{B}[\rightarrow \mathbb{P} \mathbb{P}]$. |
| | | OPENING | When selecting $\mathbb{B} \subset \mathcal{F} \to \mathcal{F}$, the closure of the contact activates an opening operation. | | |
| 30 <u>t</u> 9 | NC | STOP | The opening of the safety contact causes the current operation to stop. If $\mathbf{PP} - \mathbf{R9} = \mathbf{9P}$, automatic closure is disabled when contact 30-9 recloses. If $\mathbf{PP} - \mathbf{R9} = \mathbf{9T}$, automatic closure remains enabled when contact 30-9 recloses. | | |
| 30 9 | NO | "HOLD-TO- RUN" OPERATION | When selecting AP → R9 → HR, the opening of contact 30-9 enables the "operator present" function: opening with operator present 30-3 closure with operator present 30-4 NOTE: any safety devices, automatic closure and plug-in board in the AUX slot are all disabled. | | |
| 30 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. | | |

4.2 Safety inputs

| Command | | Function | Description | |
|---------|-----------------|----------|---------------------------------------|--|
| 1 — | -t 6 | NC | SAFETY STOP | For safety devices with self-test input: When selecting $\mathbb{PP} \rightarrow \mathbb{JG} \rightarrow \mathbb{SH}$, connect the output contact of the safety device to terminals 1-6 on the control panel (in series with the photocell output contact, if installed). |
| 1 — | - t 8 | NC | REVERSAL SAFE- TY DEVICE | For safety devices with self-test input: When selecting $\mathbb{PP} \rightarrow \mathbb{PP} \rightarrow PP$ |
| 1 — | 4 6 8 | NC | CLOSING/OPEN- ING SAFETY DEVICE | For safety devices with self-test input: When selecting $P \rightarrow 5B \rightarrow 5$ 4, 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 $B \rightarrow 5$ 4, B and B cannot be P 4 or 5 4. |

| Command | Function | Description |
|---------------|-------------------------------------|--|
| 1 6R R= 8.2kΩ | | With $\mathbb{RP} \rightarrow \mathbb{SR}$ selected, confirmed by the message \mathbb{NO} on the display, a short circuit or open circuit state of the resistance triggers arrest with disengagement and reverses the direction of the automation in accordance with the value set for the parameter \mathbb{SR} . |
| 1 | CLOSING RESISTIVE SAFETY EDGE | With $\Pi P \rightarrow \Theta R$ selected, confirmed by the message ND on the display, a short circuit or open circuit state of the resistance triggers arrest with disengagement and reverses the direction of the automation in accordance with the value set for the parameter ΘR . |

4.3 Limit switch inputs

| Command | | Function | Description |
|--|----|-------------------------|---|
| 0 <u>t</u> 11A | NC | CLOSING LIMIT SWITCH | Logic limit switch contact for closing with very low voltage, activated only with F (parameter set to S X. Opening of the contact stops the motor during the closing operation. |
| 0 <u> t </u> | NC | OPENING LIMIT SWITCH | Logic limit switch contact for opening with very low voltage, activated only with \mathbf{FA} parameter set to \mathbf{SX} . Opening of the contact stops the motor during the opening operation. |



NOTA: the opening of both limit switches immediately stops any operation in progress and prevents any operation from starting. While this condition persists, the \mathbf{SH} alarm appears on the display. The reclosing of at least one of the two limit switches causes a RESET of the control panel.

5. Outputs and accessories

| Output | Value of accessories | Description | |
|------------------|---|--|---|
| <u>8</u> 24V- | 24 V~ 0.3 A max | AC power supply to accessories Output for power supply to external accessories. | |
| | 24 V 0.3 A max | Accessories power supply Output for DC power supply to external accessories. | |
| 3W max | 24 V 0.3 A max | Automation status lamp (configurable) For the operating mode of output 30-13, refer to the selection 1 [see paragraph 9.4.1]. | Â |
| 3W max | 24 V 0.3 A max | For the operating mode of output 30-G3, refer to the selection $\mathbb{R} \to \mathbb{C}$ (see paragraph 9.4.1). | The total sum of the current values deliv- ered by 30,1 and 24 V~ |
| AUX 1 AUX 2 | GOPAVRS LAB9 BIXR2 BIXPR2 MOBCRE LAN7S | safety boards. The action of the control board can be selected | outputs must never exceed 0.5 A. |

| Output | Value of accessories | Description | | |
|-------------------|---|---|--|--|
| | ANTENNA | Input for GOL148REA external antenna or rigid wire antenna supplied according to the operating frequency of the receiver module used. | | |
| ₽~ LP~ | 230 V~ 25 W max | 230 V flashing light For connection of a 230 V~ flashing light with auto-flashing function. WARNING: if you want to use the FL24 flashing light (24V=), connect it to output 30-63 and set parameter []]= [] 1. | | |
| RDX | ZENRS ZENPRS (optional) | For installation of a ZENRS (433.92 MHz) or ZENPRS (868.35 MHz) type radio receiver module. Operation is enabled by selecting $\mathbb{B} \square \to \mathbb{R} M$. 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 | BIXMR2 | $\begin{array}{l} \textbf{COM} \mbox{ - Enables saving of operating configurations with function $$ $\mathbf{F} \rightarrow $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$ | | |
| J29 | PT3 (optional for LCA85 - included in LCA85B) | Membrane push-button panel (PT3). Starts the opening operation. NOTE: to activate the closing operation, connect the connector of the push-button panel to J29 (rotated by 180°). Membrane push-button panel (PT3). Causes the blocking of the movement. See parameter AP → K S Membrane push-button panel (PT3). Starts the closing operation. NOTE: to activate the opening operation, connect the connector of the push-button panel to J12 (rotated by 180°). | | |
| SCI ··· ··· | FUTURE USE | | | |

6. Jumper setting

| Jumper | Description | OFF | ON 💌 |
|--------|--|---|--|
| JR1 | Display mode selection | Display mode The values and parameters present can be only displayed. | Maintenance mode Maintenance mode. The values and parameters present can be displayed and modified. Activated maintenance mode is indicated by the permanent lit on of the right- hand point on the display. |
| Jumper | Description | 30 1 | 30 1 •••• |
| AUX1 | Selection of power supply - auxiliary board 1 | AUX1 powered from 0-1 | AUX1 powered from 0-30 (default setting) |
| AUX2 | Selection of power supply - auxiliary board 2 | AUX2 powered from 0-1 | AUX2 powered from 0-30 (default setting) |

7. Using menus



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.

7.1 Switching the display ON and OFF

The procedure to switch on the display is as follows:

- press the key
- the display functioning check starts
- **3. X.**
- the first level menu is displayed

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

• press the key

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

7.2 Navigation keys

- UP and DOWN keys: for scrolling through level one or two menus and through the list of possible values for a specific parameter.
- ENTER key: accesses the next menu level or the list of possible values for a menu parameter. Press and hold to confirm selection of the currently displayed parameter value.
- ESC key: go back to previous step in navigation.
- <u>Simultaneous</u> pressing of the keys **UP** and **ENTER** performs an opening command.



• <u>Simultaneous</u> pressing of the keys **DOWN** and **ENTER** performs a closing command.

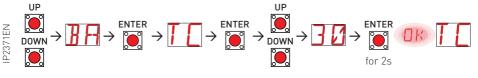


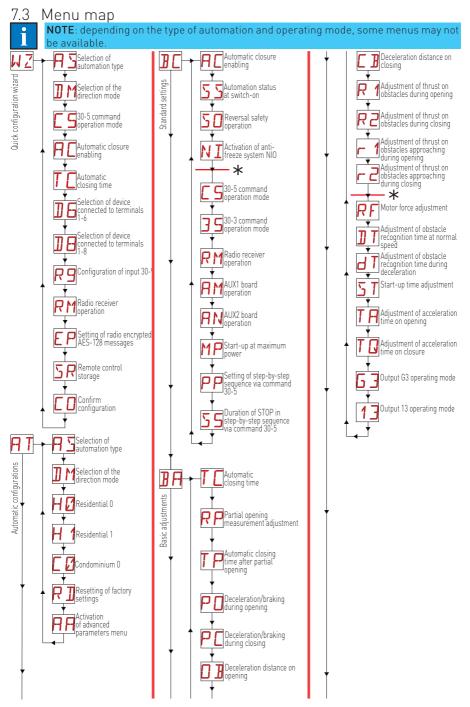
• <u>Simultaneous</u> pressing of the keys **UP** and **DOWN** performs a POWER RESET command. (interruption of the power supply and restart of the automation).

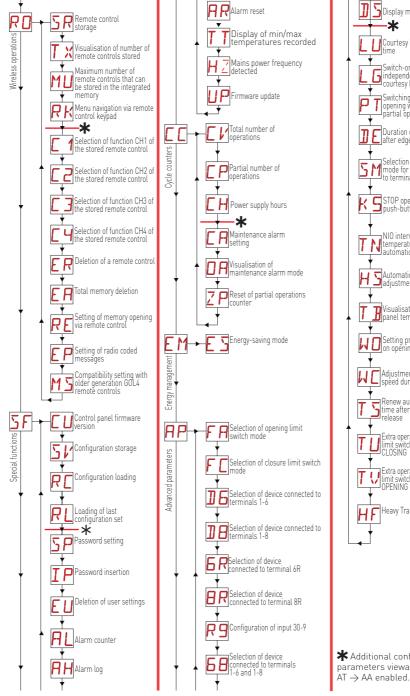


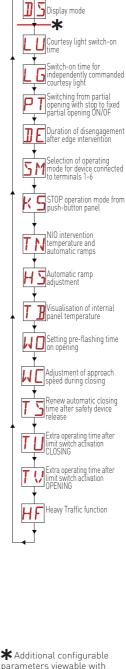
- Hold down the UP or DOWN key to begin fast menu scrolling.
- In some menus, the parameter measurement unit can be viewed by pressing the ENTER key once the value has been displayed.

Example: setting of 30 seconds for TC parameter.









8. Setting up product for first use

Use the WIZARD (WZ) wizard or the level two AT menu (automatic configuration) to set the product up rapidly with a quick configuration procedure [see parag. 9.2]. For detailed, customised configuration, use the main menus **BC BA RD SF CC EM AP**

8.1 Wizard configuration menu (WZ)

To access the WZ quick configuration wizard menu:

Hold down the ENTER button for 2 seconds. Once the message OK stops flashing, the first menu parameter:



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.



List of parameters in WIZARD menu:

| | Display | Description |
|-------------------------|---------|--|
| ird | 8 S | AS - Motor operating mode • 01. Generic automation without deceleration (default) • 02. Sliding gate with deceleration • 03. Barrier with deceleration |
| 128 | | 04. Sectional door with deceleration |
| ion wiza |]] M | DM - Selection of the direction mode LF: opening towards left direction (output axis turns clockwise during opening) RT: opening towards right direction (output axis turns counterclockwise during opening) |
| nfigurat | ٢ ٢ | C5 - Operation of command associated with contact 30-5 1-5: step-by-step (default) 1-3: opening LG: courtesy light NO: none |
| 2 - Quick configuration | RC | AC - Enabling of automatic closure ON: enabled (default) OF: disabled 1-2: dependent on input 1-2 hR: push-to-operate "dead man" closure (independently of setting of parameter R9) hr: push-to-operate "dead man" closure, obliged until complete closure (independently of setting of parameter R9) |
| \geq | | NOTE : in hr mode if the closure command is removed before reaching the closed position limit switch, the door/gate re-opens automatically. |
| | ΤĽ | TC - Setting of automatic closing time [seconds] [NOTE: only viewable visible if AC = ON was selected in previous step] from 0" to 59" with intervals of 1 second. from <u>1'</u> [default] to 2' with intervals of 10 seconds. |

| |]] | 6 | $\begin{array}{l} D6 \mbox{-} \mbox{Selection of device connected to terminals 1-6} \\ \bullet \ N0 \mbox{: none.} \\ \bullet \ SE \mbox{: safety sensing edge (if contact 1-6 opens, 10 cm disengagement is implemented after stop).} \\ \bullet \ S41 \mbox{: safety edge with safety test (if contact 1-6 opens, after the stop there is a disengagement of a duration depending on the selection $$PP \mbox{>} \mbox{]} \end{tabular} \ \ D6 \mbox{: safety sensing edge (if contact 1-6 opens, 10 cm disengagement is implemented after stop).} \\ \bullet \ \ PH \mbox{: photocells.} \\ \bullet \ \ P41 \mbox{: photocells with safety test.} \end{array}$ |
|---------------------------------|----|---|---|
| n wizard |]] | 8 | D8 - Selection of device connected to terminals 1-8 N0: none. SE: safety edge. S41: safety edge with safety test. PH: photocells. P41: photocells with safety test. |
| 'Z - Quick configuration wizard | R | 9 | R9 - Configuration of input 30-9 N0: disabled. <u>9P</u>: open state of an input triggers permanent stop (default). 9T: open state of an input triggers temporary stop. Once contact closes, automatic closure time (if enabled) is activated. HR: automation operates in "operator present" mode if input is open. |
| conf | R | M | RM - Radio receiver operation • 1-3: opening • 1 <u>-5</u> : step-by-ste (default) |
| - Quick | Ε | Ρ | EP - AES (Encrypted Packet) reception setting If the possibility to receive coded messages is enabled, the control panel will be compatible with remote controls of the "AES-128 Encrypted" type. ON: enabled OF: disabled (default) |
| ZM | 5 | R | SR - Remote control storage When you press ENTER, SR starts to flash and you can associate the desired buttons. Once OK is displayed, SR starts to flash again and you can associate the next button. To quit, press ESC or ENTER for 2 seconds and go on to the next item. NOTE: if NO flashes on the display, the remote control may already be stored. |
| | Ε | 0 | CO - Save Wizard settings Here you can save the parameters that have previously been set. YS: to save and perform a card RESET NO: to quit without saving and go back to a blank screen (central part only) NOTE: the message CO and YS/NO sub-menus flash constantly. |

To save the configuration:

In the CO parameter select YS (yes) and press the ENTER button for 2 seconds. After saving, a board POWER RESET cycle is performed automatically:



To quit without saving changes:

Select the option NO for the parameter CO and then press and hold ENTER for 2 seconds



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

NOTES:

- The set values are only stored on the card if they are saved using the CO parameter.
- The parameter CO and the YS/NO options flash constantly.
- After confirming a configuration parameter, the wizard moves on automatically to the next parameter.
- The UP/DOWN buttons may be used at any time, however, to scroll through parameters.
- There is no time limit for selecting and the wizard will not quit automatically.

8.2 Basic start-up example

8.2.1 Sliding gate



WARNING: the system must have sufficiently robust mechanical end stops

WARNING: if the control panel is used to replace an identical control panel which is faulty, the last automation configuration can be recovered by inserting the old control panel storage module into the new control panel and loading the last set configuration using the menu sequence $Sf \rightarrow RL$.

WARNING: before using the automation, make sure that the operating forces of the gate wings comply with the EN 12453:2017 standard and subsequent revisions.

- 1. Turn on the power.
- 2. Activate the <u>HZ</u> configuration wizard menu. Select the value of parameter <u>HS</u> to value **01** for operation without deceleration, or **02** for enabling deceleration phases at the end of opening and closing maneuvers. Set the selections required for the specific installation. Make sure to set the correct opening direction (parameter **M**).
- 3. Make a jumper for the safety contacts $\overline{1-6}$, 1-8 and 1-9. If not deactivated via the menu parameters $\overrightarrow{PP} \rightarrow \overrightarrow{16}$, $\overrightarrow{PP} \rightarrow \overrightarrow{18}$ and $\overrightarrow{PP} \rightarrow \overrightarrow{P9}$.
- 4. The limit switches must be adjusted so to take action slightly before reaching the desired opening and closing end positions. To adjust the limit switches, refer to the installation manual of the barrier in use.
- Perform a complete opening [+ c keys] and closing [+ c keys] an
- 6. Connect the safety devices after removing the jumpers 1-6, 1-8 and 1-9, or reactivating the corresponding inputs using the menu parameters **P** → **D**, **P** → **D**, **P** → **D**, and **P** → **P**. Make sure the various safety devices are operating correctly.

8.2.2 Barrier



WARNING: if the control panel is used to replace an identical control panel which is faulty, the last automation configuration can be recovered by inserting the old control panel storage module into the new control panel and loading the last set configuration using the menu sequence $SI \rightarrow RL$.



WARNING: before using the automation, make sure that the operating forces of the gate wings comply with the EN 12453:2017 standard and subsequent revisions.

- 1. Turn on the power
- 2. Activate the $\boxed{M \ Z}$ configuration wizard menu. Select the value of parameter $\boxed{M \ S}$ to value **01** for operation without deceleration, or **03** for enabling deceleration phases at the end of opening and closing maneuvers. Set the selections required for the specific installation. Make sure to set the correct opening direction (parameter \boxed{M}).
- 3. Make a jumper for the safety contacts 1-6, 1-8 and 1-9. If not deactivated via the menu parameters $PP \rightarrow IB$ and $PP \rightarrow PB$.
- 4. The limit switches must be adjusted so to take action slightly before reaching the desired opening and closing end positions. To adjust the limit switches, refer to the installation manual of the barrier in use.
- 5. Perform a complete opening (+ keys) and closing () +) cycle and check that the automation performs the corresponding operation and stops after activating each limit switch (learning operation M).

6. Connect the safety devices after removing the jumpers 1-6, 1-8 and 1-9, or reactivating the corresponding inputs using the menu parameters **PP** → **D6**, **PP** → **D6** and **PP** → **P9**. Make sure the various safety devices are operating correctly.

8.2.3 Sectional door



WARNING: if the control panel is used to replace an identical control panel which is faulty, the last automation configuration can be recovered by inserting the old control panel storage module into the new control panel and loading the last set configuration using the menu sequence $\Gamma \rightarrow R \square$.



WARNING: before using the automation, make sure that the operating forces of the gate wings comply with the EN 12453:2017 standard and subsequent revisions.

- 1. Turn on the power.
- 2. Activate the $\boxed{W \ Z}$ configuration wizard menu. Select the value of parameter $\boxed{R \ S}$ to value **01** for operation without deceleration, or **04** for enabling deceleration phases at the end of opening and closing maneuvers. Disable automatic closure by setting parameter $\boxed{R \ C}$ to $\boxed{D \ F}$. Set the other selections required for the specific installation. Make sure to set the correct opening direction (parameter $\boxed{D \ M}$).
- 3. Make a jumper for the safety contacts 1-6, 1-8 and 1-9 if not disabled via the menu parameters $\mathbb{P} \to \mathbb{D} \oplus, \mathbb{P} \to \mathbb{D} \oplus$ and $\mathbb{P} \to \mathbb{P} \oplus$.
- 4. The limit switches must be adjusted so to take action slightly before reaching the desired opening and closing end positions. To adjust the limit switches, refer to the installation manual of the barrier in use.
- 5. Perform a complete opening () +) keys) and closing () +) cycle and check that the automation performs the corresponding operation and stops after activating each limit switch (learning operation).
- 7. Enable automatic closure if required (parameter $\exists c \to Rc$) and adjust the desired automatic closure time delay (parameter $\exists R \to Tc$).

8.3 Frequently used menu sequences

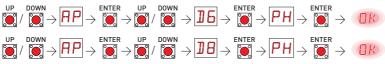
Step-by-step mode without automatic closure (residential use)

8.3.1 Enabling the configurations

DOWN ENTER UP DOWN $[\bullet] / [\bullet] \rightarrow [H T] \rightarrow [\bullet] \rightarrow [\bullet] / [\bullet] \rightarrow [H D] \rightarrow [\bullet] \rightarrow (D)$ Step-by-step mode with automatic closure 1 min (residential use) [standard settings] ENTER UP DOWN UP DOWN ENTER $\fbox{0}/\fbox{0}\rightarrow |\texttt{PT}| \rightarrow \fbox{0} \rightarrow \fbox{0}/\fbox{0}\rightarrow |\texttt{H1}\rightarrow \fbox{0}\rightarrow (\texttt{III})$ Opening mode with automatic closure 1 min (condominium use) UP DOWN UP DOWN ENTER $\underbrace{\textcircled{0}}_{\mathcal{I}}^{\mathsf{U}}/\underbrace{\textcircled{0}}_{\mathcal{I}}\rightarrow \overleftarrow{\mathsf{R}}^{\mathsf{I}}\rightarrow \underbrace{\textcircled{0}}_{\mathcal{I}}^{\mathsf{I}}\rightarrow \underbrace{\textcircled{0}}_{\mathcal{I}}^{\mathsf{U}}/\underbrace{\textcircled{0}}_{\mathcal{I}}\rightarrow \underbrace{\fbox{0}}_{\mathcal{I}}\rightarrow \underbrace{\textcircled{0}}_{\mathcal{I}}\rightarrow \underbrace{\textcircled{0}}_{\mathcal{I}}\rightarrow \underbrace{\textcircled{0}}_{\mathcal{I}}\rightarrow \underbrace{\textcircled{0}}_{\mathcal{I}}$ 8.3.2 Adding remote controls $[\square]^{P} \xrightarrow{\text{ENTER}} \rightarrow [\square]^{P} \xrightarrow{\text{ENTER}} \rightarrow [\square]^{P} \xrightarrow{\text{DOWN}} \rightarrow [\square]^{P} \xrightarrow{\text{ENTER}} \xrightarrow{\text{ENTER}} \rightarrow [\square]^{P} \xrightarrow{\text{ENTER}} \xrightarrow{\text{E$

8.3.3 Configuring the NC contact safety devices

Example 1 - Configuring the photocells connected to terminals 1-8 and 1-6 [standard settings] Set



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

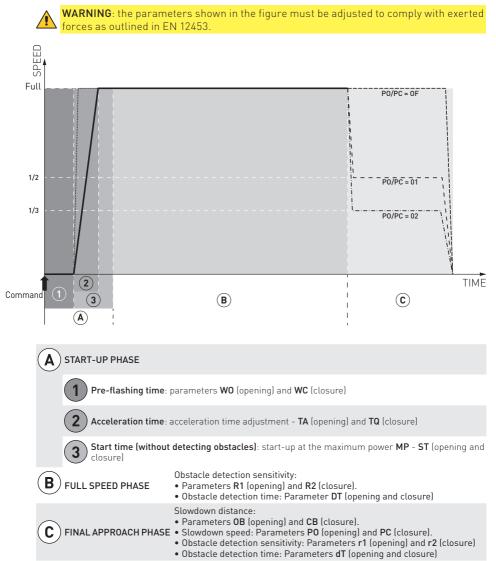


8.3.4 Configuring the resistive safety edges

Example 1 - Configuring the resistive safety edges connected to terminals 1-6R and 1-8R Set



8.4 Synthetic diagram of operation



9. Configuration and settings menu

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

91 Main menu

| Display | Description |
|---------|---|
| ΝZ | WZ - Quick configuration wizard Quick configuration menu |
| RT | AT - Automatic Configuration The menu allows you to manage the automatic configurations of the control panel. |
| BC | BC - Basic Configuration The menu allows you to display and modify the main settings of the control panel. |
| קת | BA - Basic Adjustments The menu allows you to display and modify the main adjustments of the control panel. |
| ייע | NOTE : some settings require at least three operations before they are set correctly. |
| R 🛛 | RO - Radio Operations The menu is used to manage the radio functions of the control panel. |
| SF | SF - Special Functions The menu allows you to set the password and manage the special functions in the control panel (alarm management, diagnostics enabling, FW updating). |
| EE | CC - Cycle 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 This menu may be used to view and modify energy saving settings and adjustments (Green Mode). |
| 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 🗑 and 🚺 keys to select the required function;
- press **ENTER** to confirm.

After confirming the selection, you access the second level menu. For each function of the main menu, there are also additional configurations that can be viewed by enabling the 🔁 🗗 function (see the following paragraph). The factory settings for the various second level menu parameters are underlined in green.

NOTE: to check if the parameters have actually been modified, guit the relative parameter and then access it again. The modifications will take effect from the next operation.

9.2 Second level menu - AT (Automatic Configuration)

| | Display | | | | Desc | ription | | | | | | ielectio availab | |
|------------------|------------|---|--|--|---|---|---------------------------------|---------------|--|--|--------|---------------------|-----------|
| | | AS - Motor of - 01. <u>Generic</u> - 02. <u>Sliding</u> - 03. <u>Barrie</u> - 04. <u>Section</u> | c autom gate wi r with c | ation w th dece leceler: | ithout d leratior ation | <u>1</u> | tion (de | <u>fault)</u> | | | | 1 [3 [| 32 34 |
| | ΗЪ | Value | P0 | PC | OB | СВ | R1 | R2 | r1 | r2 | RF | DT | dT |
| | · · - | Ø 1 | OF | OF | 60 | 60 | 30 | 30 | 30 | 30 | 50 | 40 | 40 |
| | | 80 | 01 | 01 | 50 | 50 | 20 | 20 | 30 | 30 | 99 | 40 | 60 |
| | | Ø 3 | 02 | 02 | 15 | 15 | 20 | 20 | 10 | 10 | 70 | 30 | 50 |
| | | 0 4 | 01 | 01 | 30 | 30 | 20 | 20 | 30 | 30 | 99 | 40 | 60 |
| Iration | | DM - Selecti LF: opening t RT: opening during open | owards l towards | eft direc | tion (ou | tput axis | | | | | | t value de | epends on |
| omatic configura | НØ | H0 - Predefi This selectio AC - Enable C5 - step-by RM - remote AM - AUX1 a SS - Selectio H1 - Predefi | on loads automa s-step/op e contro and AUX on of au | predefi itic clos pening l operat 2 plug- tomatio | ined val ure comma ion in board n statu | lues for Ind oper d operat s at stai | certain ation ion t-up | standa | rd paraı : disab : Step- : Step- : Step- : open | | | | |
| AT - Autom | H <u>1</u> | This selection AC - enablin TC - setting C5 - step-by RM - remote AM - AUX1 a SS - Selection | on loads of autor -step/op contro and AUX | predefi comatic matic cl pening l operat 2 plug- | ined val closing losing t comma ion in board | lues for) ime Ind oper d operat | certain ation iion | | | ed ute by-step by-step by-step | | | |
| | | CO - Setting Opening and | | | | | t value, | with st | atus at s | start-up | closed | I. | |
| | R]] | RD - Resetti ENTER \bigcirc \rightarrow \bigcirc 2" | R | ctory s | ettings ENTE | | | SET) | | | | | |
| | RR | AA - Tempo each main EN EN C After activat The third lev | n menu ITER 2 → 2" ion you | functio | n K oll thro | ugh the | Hird le | • | | ers for | R | F7 F | 36 |

9.3 Second level menu - BC (Basic settings)

| | Display | Description | Selections | available | |
|-----------------------|---------|--|---------------|-------------------|-----|
| | RC | AC - Enabling of automatic closure OF - Disabled ON - Enabled 1-2 - Dependent on input 30-2 hR - Push-to-operate "dead man" closure (independently of setting of parameter R9) hr - Push-to-operate "dead man" closure, obliged until complete closure (independently of setting of parameter R9) | 0F 5R | <u>DN</u> Harr | 1-2 |
| gs | | NOTE : in hr mode if the closure command is removed before reaching the closed position limit switch, the door/gate re-opens automatically. | | | |
| Basic settings | 55 | SS - Selection of automation status at start-up OP - Open CL - Closed Indicates how the control panel considers the automation a of switch-on, or after a POWER RESET command. | at the time | 0P | |
| C - Basi | 50 | SO - Enabling of reversal safety contact functioning during ON - Enabled OF - Disabled When enabled (ON) with the automation idle, if the contact ations are prevented. | | all oper- | |
| m | | When disabled (OF) with the automation idle, if the contact operations are permitted. | 1-8 is open, | opening | Ur |
| | | NI - Enabling of NIO electronic anti-freeze system ON - Enabled OF - Disabled | | | |
| | | When enabled (ON), it maintains the efficiency of the motor temperatures. | r even at low | ambient | ΠN |
| | NI | NOTE : for correct operation, the control panel must be ambient temperature as the motors. The intervention temperature for the NIO system can be set by | | | ΠF |
| | | WARNING: When the NIO system is in operation, the 230 output will remain activated. The NIO function cannot with limit switches series connected to the phases [FA | be used whe | n motors | |

9.3.1 Additional configurable BC level parameters available with \square \square \rightarrow \square \square enabled

| | enable | u | |
|---------|---------|---|-------------------------|
| | Display | Description | Selections available |
| | | C5 - Operation of command associated with contact 30-5 (wakeup from stand-by) 1-3 - Opening 1-5 - Step-by-step LG - Courtesy light command NO - Input 5 disabled | 1-31 <u>-5</u> NOLG |
| gs | 39 | 35 - Operation of command associated with contact 30-3 1-3 - Opening 1-5 - Step-by-step LG - Courtesy light command NO - Input 3 disabled | 1-31-5 NOLG |
| settin | RM | RM - Radio receiver operation 1-3 - Opening 1-5 - Step-by-step | 1-3 <u>1-5</u> |
| Basic s | R۲ | AM - Operation of AUX1 plug-in control board 1-3 - Opening 1-5 - Step-by-step NO - Disabled | - 3 <u>- 5</u> N D |
| с ВС | A L | AM - Operation of AUX2 plug-in control board 1-3 - Opening 1-5 - Step-by-step NO - Disabled | - 3 <u>- 5</u> N D |
| | MF | MP - Start-up at maximum power ON - During start-up it increases the thrust to maximum OFF - During start-up, the thrust is the one adjusted by R F. | <u>ON</u> OF |
| | ΡF | PP - Setting of step-by-step sequence via command 30-5 ON - Opening-Stop-Closing-Stop-Opening OF - Opening-Stop-Closing-Opening | ON <u>OF</u> |
| | 59 | S5 - Duration of STOP in step-by-step sequence via command 30-5 ON - Permanent (automatic closure is excluded until a new command is given) OF - Temporary (the automatic closure timer intervenes, if enabled) | |

9.4 Second level menu - BA (Basic adjustments)

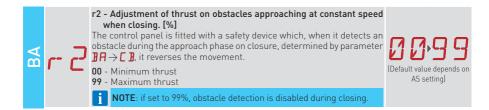
NOTE: make adjustments gradually and only after performing at least three complete operations to allow the control panel to be set correctly and detect any friction during operations.

| | Display | Description | Selections available |
|----|---------|--|----------------------|
| BA | ΤC | 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. | |
| | RP | RP - Adjustment of partial opening measurement [%] 10 - Minimum 99 - Maximum | 1099 |

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| | T | Ρ | 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. | |
|--------------------------|----|---|---|--|
| | Ρ | 0 | PO - Deceleration/braking during opening Enables a deceleration phase at the end of the opening stroke OF - Disabled OI - Speed 50% O2 - Speed 33% | DFD1 DEfault value depends on AS setting] |
| | Ρ | C | PC - Deceleration/braking during closing Enables a deceleration phase at the end of the closing stroke. OF - Disabled 01 - Speed 50% 02 - Speed 33% | DFD1 D2 (Default value depends on AS setting) |
| tments | 0 | B | OB - Setting of deceleration/braking distance during opening [cm] Indicates the time between the start of the deceleration ramp and the end of the distance stroke 00 - Minimum 99 - Maximum | (Default value depends on AS setting) |
| Basic adjustments | Ε | B | CB - Setting of deceleration/braking distance during closing [cm] Indicates the time between the start of the deceleration ramp and the end of the distance stroke 00 - Minimum 99 - Maximum | (Default value depends on AS setting) |
| BA - Basi | R | 1 | R1 - Adjustment of thrust on obstacles during normal operation at constant speed when opening. [%] The control panel is fitted with a safety device which, when it detects an obstacle during the opening phase, it stops the movement with a release operation. 00 - Minimum thrust 99 - Maximum thrust 1 NOTE: if set to 99%, obstacle detection is disabled during opening. | Default value depends on AS setting) |
| | R | 2 | R2 - Adjustment of thrust on obstacles during end position approach phase normal movement at constant speed when closing. [%] The control panel is fitted with a safety device which, when it detects an obstacle during closure, it reverses the movement. 00 - Minimum thrust 99 - Maximum thrust INOTE: if set to 99%, obstacle detection is disabled during closing. | Default value depends on AS setting] |
| | ۲- | 1 | r1 - Adjustment of thrust on obstacles during end position approach phase at constant speed when opening. [%] The control panel is fitted with a safety device which, when it detects an obstacle during the approach phase on opening, determined by parameter BA → D B, it implements a release operation. 00 - Minimum thrust 99 - Maximum thrust NOTE: if set to 99%, obstacle detection is disabled during opening. | Default value depends on AS setting] |



9.4.1 Additional BA level parameters that can be configured (available with $\overrightarrow{P} \overrightarrow{T} \rightarrow \overrightarrow{P} \overrightarrow{P}$ enabled)

i

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.

| | Disp | lay | Description | Selections available |
|--------------------------|------|-----|---|--|
| | R | F | RF - Motor force adjustment. [%] It works throughout the stroke, apart from the start phase, if parameter $\mathbb{R} \to \mathbb{NP}$ is set to ON. | (Default value depends on AS setting) |
| |]] | T | DT - Adjustment of obstacle recognition time at normal speed. [s/100] 20 - Minimum 99 - Maximum | (Default value depends on AS setting) |
| ts | റ | T | dT - Adjustment of obstacle recognition time during deceleration. [s/100] 20 - Minimum 99 - Maximum | (Default value depends on AS setting) |
| ustmen | 5 | T | ST - Adjustment of start time [s] During start-up, obstacle detection is disabled. 2.0 - Minimum 3.0 - Maximum | 2.0°3.0 2.0 |
| Basic adjustments | T | R | TA - Adjustment of soft-start time during opening [s] 0.0 - Minimum 1.5 - Maximum Soft-start function disabled with T A → ØØ. | 0.0 1.5 |
| BA - Ba | T | IJ | TQ - Adjustment of soft-start time during closing [s] 0.0 - Minimum 1.5 - Maximum Soft-start function disabled with T Q → Q Q. | 0.0 1.5 |
| | 6 | 3 | G3 - G3 output operating mode See tab. 9.4.1 | 00-14 0N |
| | 1 | 3 | 13 - 13 output operating mode See tab. 9.4.1 | |

| 2 | / | _ |
|---|--------|---|
| L | 1 | |
| 4 | | - |
| E | 1 | ~ |
| ¢ | 7 | 2 |
| ç | \sim | 4 |
| Ĺ | ٦ | |
| 2 | - | |

BA - Basic adjustments

Table 9.4.1> Operating modes of configurable outputs 13 and G3 (parameters 13 and G3)

| ומטנב ז.א. וא טאבו מנוווץ וווטעבא טו נטווווץעו מטוב טענאטנא וא מווע טא ואמו מווובנבוא וא מווע טאן | ט שווש כו כושלוחט | د ا د اعا عا ا اه ا ما ا د ر | | | | | |
|---|-------------------|------------------------------|----------------|---------------|----------------|-----------------------|--|
| Modalities to the manoeuvring phase | | | | | | | |
| G3-13 output operating mode | Entrance closed | Entrance closed Open prelamp | Opening stroke | Open entrance | Closed prelamp | Closing stroke | Opening stroke Open entrance Closed prelamp Closing stroke CB* Entrance closed |
| 00 : Courtesy light | | Ņ | LU** | ÿ | | | |
| 01: ON-OFF flashing light | | | | | | | |
| 02 : Permanent flashing light (auto-flashing) | | <i>`</i> # | N4. | | | بني | |
| 03 : Proportional indicator light for open gate | | | | ¥ | | | |
| 04 : Indicator light for open gate | | | | ÿ | | | |
| 05 : Gate stationary and closed indicator light | ¥ | | | | | | ÿ |
| 06 : Gate stationary and fully open indicator light | | | | Ņ | | | |
| 07 : Gate moving indicator light | | 5. | Ŵ | | | ý | |
| 08 : Gate opening indicator light | | 7 | | | | | |
| 09 : Gate closing indicator light | | | | | | ¥ | |
| 10 : Red light control / proportional shaft lights | Ŵ | | | | | | <i>\#</i> |
| 11 : Red light flashing control with closed gate/door and proportional input | - | | | | | | - |
| auring the operation 12: Electromagnetic lock control - QIKAFE | ÿ | | | | | | Ĩ |
| ON : Output always active | l | | l | ý | l | | l |

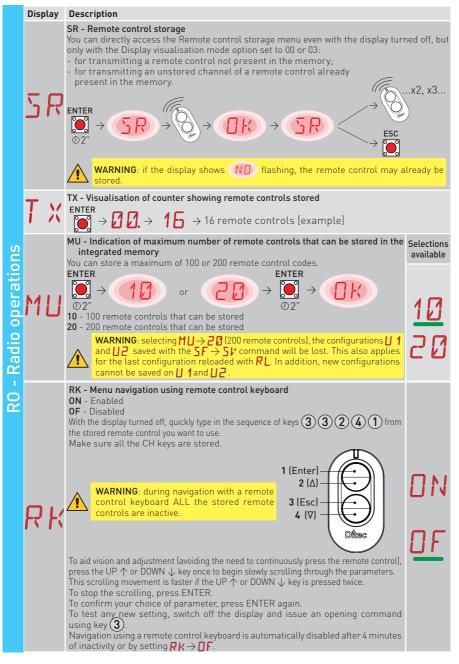
G3-13 special operating mode

13: STOP signalling / safety switching

14: Maintenance alarm



9.5 Second level menu - RO (Radio operations)



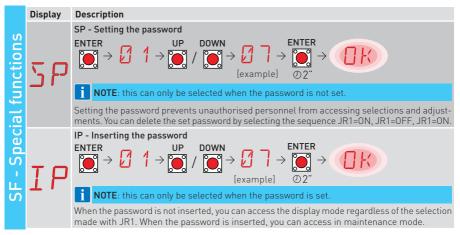
9.5.1 Additional configurable BO level parameters available with $\blacksquare \ \intercal \rightarrow \blacksquare \blacksquare$ enabled

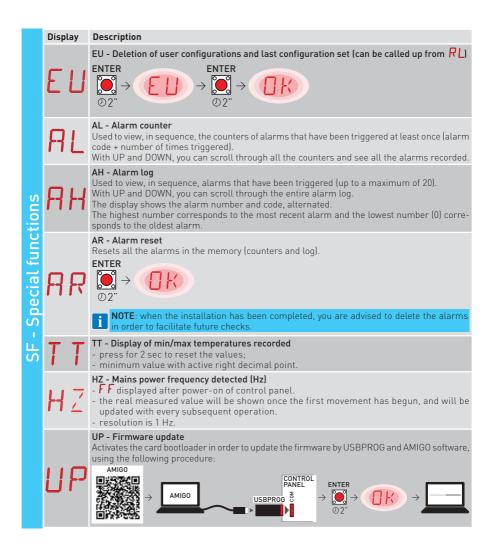
| | Display | Description | elections available |
|--------------------|--------------------------|---|------------------------|
| ions | С 1 С 2 С 3 С Ч | C1, C2, C3, C4 - Selection of CH1, CH2, CH3, CH4 function of stored remote control N0 - No setting selected 1-3 - Opening command 1-4 - Closing command 1-5 - Step-by-step command Partial opening command L6 - 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 or step- by-step command is implemented. INOTE: the -] (opening) and - ∫ (step-by-step) options are available as alternatives, and depend on the selection][-> RM. If 2-4 CH keys of a single remote control are stored, the functions matched in the factory with the CH keys are as follows: CH1 = opening/step-by-step command; [-], [-], [depending on parameter RM]; CH2 = partial opening command; [-]; CH3 = command to switch on/off the courtesy light; [_6] CH4 = STOP command; [-]. | |
| - Radio operations | ER | ER - Deletion of a single remote control ENTER $\bigcirc 2^n$ \rightarrow \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc | |
| RO - Rad | ER | EA - Total deletion of the dedicated part of the storage used by remote controls ENTER \bigcirc $2^{"}$ \rightarrow \bigcirc \bigcirc $2^{"}$ \rightarrow \bigcirc \bigcirc $2^{"}$ \rightarrow \bigcirc \bigcirc \bigcirc $2^{"}$ | |
| æ | RE | RE - Setting memory opening from remote control OF - Disabled ON - Enabled When enabled (ON), the remote programming is activated. To store new remote controls without using the control panel, refer to the remote control instructions. Image: NOTE: make sure you do not accidentally memorise unwanted remote controls. | <u>DN</u> DF |
| | EΡ | EP - Setting coded messages If the possibility to receive coded messages is enabled, the control panel will be compatible with remote controls of the "ENCRYPTED" type. | DF DN |
| | MS | MS - Backward compatibility setting with older generation GOL4 remote controls. OF - Compatibility with old generation GOL4 and new ZEN remote controls. ON - Compatibility with ZEN series remote controls NOTE: MS=ON is recommended if only ZEN series remote controls are used on the system. | |

9.6 Second level menu - SF (Special Functions)

| | Display | Description | |
|------------------------|--------------|--|-------------------------|
| | ۲U | CU - Displaying the control panel firmware version ENTER $\rightarrow R$. $\rightarrow 1$. $\rightarrow 1$ Release 1.1 [example] | |
| | | SV - Saving user configuration on control panel storage module | Selections available |
| SF - Special functions | 5 <i>1</i> / | $ \begin{array}{c} \text{ENTER} \\ \hline \end{array} \rightarrow \begin{array}{c} \bigcup \\ 1 \end{array} \rightarrow \begin{array}{c} \bigcup \\ \end{array} \end{array} \\ / \begin{array}{c} DOWN \\ \hline \end{array} \rightarrow \begin{array}{c} \bigcup \\ 2 \end{array} \\ (example] \end{array} \\ \rightarrow \begin{array}{c} \bigcup \\ 0 \end{array} \\ 2 \end{array} \\ \rightarrow \begin{array}{c} \bigcup \\ 0 \end{array} \\ 2 \end{array} \\ \rightarrow \begin{array}{c} \bigcup \\ 0 \end{array} \\ \rightarrow \begin{array}{c} \end{array} \\ \rightarrow \begin{array}{c} \end{array} \\ \rightarrow \begin{array}{c} \bigg$ | U 1 U 2 |
| c: | | RC - Configuration loading | 111 |
| F - Spec | RC | $\underbrace{\text{ENTER}}_{[example]} \rightarrow \underbrace{\square}_{[example]} 1 \rightarrow \underbrace{\square}_{[example]} / \underbrace{\square}_{[example]} \rightarrow \underbrace{\square}_{@2"} \rightarrow \underbrace{\square}_{@2"$ | U2 |
| 0) | | RL - Loading of last configuration set | |
| | RL | ENTER $\bigcirc 2^{"}$ \rightarrow \bigcirc | nel, the last |

9.6.1 Additional configurable SF level parameters available with $\blacksquare \ \intercal \rightarrow \blacksquare \blacksquare$ enabled





9.7 Second level menu - CC (Cycles Counter)



9.7.1 Additional configurable CC level parameters available with $\square \uparrow \rightarrow \square \square$ enabled

| | Display | Description | Selections available |
|--------------|---------|--|-------------------------|
| cle counters | C A | CA - Setting the maintenance alarm (factory setting - alarm deactivated: 0.0 00. 00) You can set the required number of operations (regarding the partial operations counter) for signalling the maintenance alarm. When the set number of operations is reached, the alarm message appears on the display / \mathcal{O} . Example: Setting the maintenance alarm after 700 operations (00) (07) (00) ENTER $\mathcal{O} \rightarrow \mathcal{O} \rightarrow$ | |
| C - Cycle co | 0 R | OA - Selecting maintenance alarm display mode O0 - Visualisation on display (alarm message 1/2) O1 - Visualisation on flashing light (with the automation idle, 4 flashes are made and then repeated every hour) and on display (alarm message 1/2). O2 - Visualisation on "open gate" indicator light (with the automation closed, 4 flashes are made and then repeated every hour) and on display (alarm message 1/2). | |
| Ö | ZP | ZP - Reset of partial operations counter ENTER ○ 2" For correct functioning, you are advised to reset the partial operations counter: - after maintenance work; - after setting the maintenance alarm interval. | |

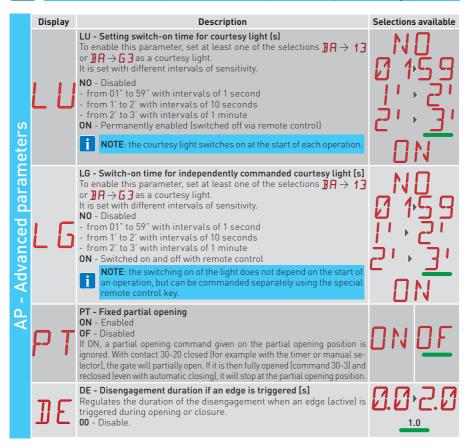
9.8 Second level menu - EM (Energy management)

| | | •••••• | | | |
|-------------------|--|---|-------------------------|--|--|
| sut | Display | Description | Selections available | | |
| Energy management | | ES - "Green Mode" (energy-saving) (disconnection of accessories connected to terminals 0-1 when the automation is in standby) ON - Enabled (the red point on the right of the display flashes every 5 s. Outputs LP~, 30-13 and 30-63 are not affected by the low-consumption mode). OF - Disabled. | | | |
| Energy n | E 5 Power supply disconnection mode is activated after 15 s with the gate closed, or when the gate is idle and automatic closure is not enabled. The automation resumes normal operation when a command is received from the radio board (ZENRS-ZENPRS) or after a contact 30-5, 30-20, 30-3 or 30-4. | | | | |
| - EM | | WARNING: if you use accessories that need to remain powered even with Green Mode enabled (e.g. LAB9 o GOPAVRS), set the jumper AUX1-2 relating to the slot used on power supply 0-30. | <u> </u> | | |

| 9.9 | | | | | | | | | |
|-----------------------|------|-------------------------|---|-------------------------|---------------------|---------------------|----------|--|--|
| | Disp | lay | Description | Selec | tions | availa | able | | |
| | | | FA - Opening limit switch mode SX: stop limit switch | 1 | X | M | Τ | | |
| | Γ | [] | MT: stop limit switch series connected to the motor phase | 1 | | 11 | 1 | | |
| | _ | - | FC - Closing limit switch mode | $\overline{\mathbf{v}}$ | NZ | | ~ | | |
| | F | | SX: stop limit switch | ב | Ä. | \mathbf{M} | | | |
| | • | <u> </u> | MT: stop limit switch series connected to the motor phase | | | ••• | • | | |
| | | | D6 - Selection of device connected to terminals 1-6 NO - None | NI | | $\overline{\nabla}$ | | | |
| | | | SE - Safety sensing edge (if contact 1-6 opens, 10 cm disengagement | 11 | U | | | | |
| | Π | | is implemented after stop). S41 - Safety edge with safety test (if contact 1-6 opens, after the stop | $\overline{\nabla}$ | UI | | Ц | | |
| | Ш | | there is a disengagement of a duration depending on the selection | | 11 | ! | | | |
| | | | AP→JE) | \square | <u>Ų</u> Į | | | | |
| | | | PH - Photocells P41 - Photocells with safety test | 1 | 11 | | | | |
| | | | D8 - Selection of device connected to terminals 1-8 | N I | П | _ | _ | | |
| | | | NO - None | ÎN. | Ľ, | ` 1 | F | | |
| |] | Д | SE - Safety edge S41 - Safety edge with safety test | $\overline{\nabla}$ | U! | ี | 5 | | |
| _ ທ | Ш | U | PH - Photocells | Ч | | μ | Н | | |
| <u>e</u> | | | P41 - Photocells with safety test | μ | Y ! | - | - | | |
| e e | | | 6R - Device connected to terminal 6R | | | | | | |
| | | | NO - None | N. | \square | | _ | | |
| | 6 | \square | 01 - Stop with disengagement during both opening and closing operations. [Once the idle resistance value (8.2K) has been reset, operation is resumed]. | | | | כ | | |
| 0 0 | | 15 | 02 - During closure, a significant variation in the resistance value above | | 1 | | | | |
| σ | | | or below the idle resistance value (8.2K) stops and reverses movement. When the automation is stationary, all operations are disabled. | Ľ | 1 | | | | |
| - Advanced parameters | | | 8R - Device connected to terminal 8R | | | | | | |
| Ē | | | NO - None | NI | | | | | |
| | | \square | 01 - Stop with disengagement during both opening and closing operations. [Once the idle resistance value (8.2K) has been reset, operation is resumed]. | | | | כ | | |
| P | | L. | 02 - During closure, a significant variation in the resistance value above | | ٨ | ย | | | |
| | | | or below the idle resistance value (8.2K) stops and reverses movement. | ย | 1 | | | | |
| AP | _ | | When the automation is stationary, all operations are disabled. R9 - Configuration of input 30-9 | | _ | _ | _ | | |
| \triangleleft | _ | _ | NO - Disabled | N | \prod | Q | T | | |
| | P | Q | 9P - Open state of an input triggers permanent stop. | | 2 | | <u>–</u> | | |
| | 1 | | 9T - Open state of an input triggers temporary stop. Once contact closes, automatic closure time (if enabled) is activated. | Ч | ۲J | F4 | R | | |
| | | | HR - Automation operates in "operator present" mode if input is open | - | - | ••• | | | |
| | | | 68 - Selection of the device simultaneously connected to terminals | | NI | Π | | | |
| | | | 1-6 and 1-8 NO - None | | IN | | | | |
| | | | SE - Safety edge | | ~ | | | | |
| | D | | S41 - Safety edge with safety test If different from NO, the simultaneous opening of inputs 1-6 and 1-8 causes: | | כ | Ľ | | | |
| | | | - movement stop and reversal during a closing operation. | | $\overline{\nabla}$ | U | | | |
| | | | movement stop and disengagement of a duration depending on the selection AP -> IE during an opening operation. | | | 11 | | | |
| | | | DS - Setting of display visualisation mode without alarm | | | | ٦ | | |
| | | | 00 - No information displayed. | Ü | Ü | 2 | Ľ | | |
| | Π | $\overline{\mathbf{V}}$ | 01 - Countdown to automatic closure displayed.02 - Automation status (see paragraph 13.1). | | 1 | N | 5 | | |
| | П | | 03 - Commands and safety devices (see paragraph 13.1). | L | | ย | ב | | |
| | | | NOTE: the setting 🖉 👖 allows you to see when a radio transmis- | | | | | | |
| | | | sion is received, for range checks. | | | | | | |

9.9.1 Additional configurable AP level parameters available with $\blacksquare \ \intercal \to \blacksquare \ \blacksquare$ enabled

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.





| | T | B | TB - Permanent display of the internal control panel temperature [°C] | ON <u>OF</u> |
|--------------------------|---|----|--|---------------|
| eters | N | 0 | W0 - Setting of pre-flashing time on opening [s] Adjustment of the lead time for the switch-on of the flashing light, in relation to the start of the opening operation from a voluntary command. 00 - Minimum 05 - Maximum. | |
| | И | Ľ | 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. | |
| param | T | | TS - Setting of renewal of automatic closing time after safety device release [%] 00 - Minimum 99 - Maximum. | <u>و بگ</u> ۲ |
| AP - Advanced parameters | T | V | TV - Extra operating time after limit switch activation OPENING Sets an additional maneuver time after activation of OPENING limit switch, in order to do a fine tuning of the end position. Range: 0.0 to 9.99 seconds, in 0.05 seconds increments. The dot after the second digit indicates half tenth of second (example: 3.5 sec- onds → display 3.5; 3.55 seconds → display 3.5). | Ø.Ø,9.9 |
| | T | IJ | TU - Extra operating time after limit switch activation CLOSING Sets an additional maneuver time after activation of CLOSING limit switch, in order to do a fine tuning of the end position. Range: 0.0 to 9.99 seconds, in 0.05 seconds increments. The dot after the second digit indicates half tenth of second (example: 3.5 sec- onds → display 3.5; 3.55 seconds → display 3.5). | 0.0,9.9 |
| | Н | F | HF - Heavy Traffic function ON - Enabled OF - Disabled When this function is enabled, the automatic reclosing time is increased automat- ically to 3 min in the event of a series of consecutive operations due to frequent aperture requests (e.g. at peak traffic times in a condominium application), to reduce wait times for users and to limit motor wear and the risk of overheating. | ON OF |

10. Diagnostics

10.1 Data Logging integrated in the board

The Ditec LCA85 control panel is equipped with an internal system which allows the installer to check whether any alarms have been triggered, see how many times each alarm has been triggered and view a the log of the last twenty alarms.

10.1.1 Alarm counter

With the third level menus enabled ($A T \rightarrow A A$), go to $S F \rightarrow A L$ to see all the alarms recorded by the control panel. The display alternately shows the alarm code and the number of times it was triggered.

Example: D _ 05 _ D] _ 05 _ UP DOWN Use the O and O keys to scroll through the entire list of alarm counters.

10.1.2 Alarm log

With the third level menus enabled $(AT \rightarrow AA)$, go to $5F \rightarrow AH$ to see the alarm log (the last 20 alarms recorded). The display shows the alarm number and code, alternated. The highest number corresponds to the most recent alarm and the lowest number corresponds to the oldest alarm.

Example: - 1 _ 0]] _ - 1 _ 0]] _

UP DOWN Use and to scroll through the alarm log.

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.

<u>A</u>₽ ▶ <u>]</u>5 ▶ Ø2

| Display | Description | Display | Description |
|------------|---|---------|--|
| זנ | Automation closed | 10 | Automation opening |
| | Automation open |] 1 | Automation closing, from partial opening |
| | Automation stopped in intermediate position | | Automation in partial opening |
| b 1 | Automation closing | | Automation partially open |

11.2 Display of safety devices and commands

i

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

AP > JS > Ø 1 AP > JS > Ø 3

| Display | Description | Display | Description |
|---------|---|---------|--|
| 1-2 | 1-2 - Automatic closure enable command. | EX | CX - Command received from AUX1 board |
| 1-3 | 1-3 - Opening command. | EY | CY - Command received from AUX2 board |
| 1-4 | 1-4 - Closure command. | FE. | FC Closure limit switch |
| 1-5 | 1-5 - Step-by-step command. | FR. | FA Opening limit switch |
| 1-6 | 1-6 - Safety device with opening and clos- ing stop. | 51. | S1. - Stop detection during closure operation |
| 1-8 | 1-8 - Safety device with reversal during closing operation. | 52. | S2. - Stop detection during aperture operation |
| 1-9 | 1-9 - STOP command. | | 00. - Obstacle detection limit reached during aperture operation |
| 6R | 1-6R - Activation or malfunction of aper- ture operation stop resistive sensing edge | ۵С. | 0C. - Obstacle detection limit reached dur- ing closure operation |
| BR | 1-8R - Activation or malfunction of clo- sure reversal resistive sensing edge | RV | RV - Enable/disable built-in radio receiver via RDX. |
| 68 | 68 - Device connected simultaneously to terminals 1-6 and 1-8. | MQ | MQ - Mechanical end stop learning opera- tion in progress. |
| P3 | P3 - Partial opening command. | HT | HT - Motor heating (NIO function) in pro- gress. |
| ЗP | 3P - Opening command with operator present | 1 ل | JR1 - Change in jumper JR1 status. |
| ЧР | 4P - Closing command with operator present | PC | PC - Connected HOST (Personal Comput- er) recognised. |
| R× | RX - Radio reception (from any memorised key of a transmitter stored in memory) | Ε5 | ES - Switch to Green Mode (energy-saving) |
| NLV | NX - Radio reception (from any non-mem- orised key) | LG | LG - Courtesy light/garden light command |
| TN X | NOTE: with the selection AP → 3 5 → 2 1 , it is also visualised when a command is received from a non-stored transmitter. | | SW - Release door open (opening of both limit switches). When the release door is closed, the control panel performs a |
| Ε× | EX - Rolling-code radio reception out of sequence | SN | RESET (alarm 🗶 🗶). |
| EΡ | EP - Radio reception not compliant with parameter configuration $\mathbb{P} \bigcirc \mathbb{P} \mathbb{P}$ | | |

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 |
|-------------------|---------|---|--|
| | MЭ | M3 - Motor blocked or limit switch not re- leased within 3 s | |
| | MБ | M6 - Overrun limit switch opens | Check if there are any obstacles and make |
| | MΓ | M7 - Overrun limit switch closes | sure the gate moves smoothly and the limit switch works properly |
| | M8 | M8 - Limit switch not found | |
| | MB | MB - Motor not detected during operation. | Check the motor connection and if the thermal switch has tripped. |
| | ΜI | MI - Detection of fifth consecutive obstacle | Check for the presence of permanent ob- stacles along the stroke of the automation. Check the settings / operating of any limit switches. |
| | ML | ML - Inverted motor stop limit switches | Repair the motor 1 limit switch connection |
| | MN | <pre>MN - Limit switch not detected during start-up</pre> | Check the connection and that the limit switches are operating correctly. |
| | | OD - Obstacle on wing detected during aperture. | Check for the presence of obstacles along the automation stroke. |
| | DE | OE - Obstacle on wing detected during clo- sure. | Check for the presence of obstacles along the automation stroke. |
| Settings alarm | 56 | S6 - Incorrect setting of safety device test | Check the configuration of parameters $\mathbb{D}6$, $\mathbb{D}0, 60$ If $\mathbb{B}0 \rightarrow \mathbb{S}4\mathbb{I}$, $\mathbb{D}6$ and $\mathbb{D}0$ cannot be $\mathbb{P}4\mathbb{I}$ or $\mathbb{S}4\mathbb{I}$. |
| Service alarm | 10 | VO - Maintenance request. | Proceed with the scheduled maintenance intervention. |

| Type of alarm | Display | Description | Operation |
|------------------------------|---------|---|---|
| | IS | I5 - No voltage 0-30 (faulty voltage regula- tor or short-circuit on accessories) | Check there is no short circuit in connection 0-30. If the problem persists, replace the control panel. |
| | I6 | I6 - Excessive voltage 0-30 (faulty voltage regulator) | Replace the control panel. |
| | I٦ | I7 - Internal parameter error - value out- side limits | Reset. If the problem persists, replace the control panel. |
| | I8 | I8 - Program sequence error | Reset. If the problem persists, replace the control panel. |
| alarm | IR | IA - Internal parameter error (EEPROM/ FLASH) | Reset. If the problem persists, replace the control panel. |
| l panel | IB | IB - Internal parameter error (RAM) | Reset. If the problem persists, replace the control panel. |
| Internal control panel alarm | IC | IC - Operation time out error (>3 min). | Manually check that the gate wing moves freely. If the problem persists, replace the control panel. |
| Interna | IΕ | IE - Power supply circuit fault | Reset. If the problem persists, replace the control panel. |
| | IM | IM - TRIAC alarm - motor 1 short circuited or always ON. | Reset. Check the settings / operating of any limit switches. If the problem persists, replace the control panel. |
| | ΙU | IU - Motor voltage reading circuit test er- ror. | Reset. If the problem persists, replace the control panel. |
| | ХХ | XX - Firmware reset commanded by simult | aneous usage 💽 + 💽 keys |
| | NI | WD - Firmware reset not commanded | |
| E | RØ | R0 - Storage module installed containing over 100 stored remote controls. WARNING: the R □→MU→20 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 $\mathbb{R} \longrightarrow \mathbb{N} \longrightarrow 10$. |
| ons alaı | RJ | R3 - Storage module not detected | Insert a storage module. |
| Radio operations alarm | RY | 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 6 | R6 - Specific storage module for testing installed. | |
| Power supply alarm | P 1 | P1 - Microcontroller voltage too low. | Check the control panel is powered correctly. |
| Power ala | HZ | HZ - Mains power frequency not within ac- ceptable range (< 45 Hz or > 65 Hz) | Checks the quality of the mains electrical power supply |

| Type of alarm | Display | Description | Operation |
|-------------------|---------|--|---|
| | | A0 - Test of safety sensor on contact 6 | Check the safety device is working properly. |
| | НЫ | | If the supplementary safety board is not inserted, check the safety test is disabled. |
| | R 1 | A1 - Test of safety sensor connected si- multaneously to contacts 6 and 8 failed. | Check the wiring and correct operation of the safety sensor. |
| | п ח | A3 - Test of safety sensor on contact 8 | Check the safety device is working properly. |
| larm | ЦЗ | failed. | If the supplementary safety board is not inserted, check the safety test is disabled. |
| Accessories alarm | 85 | A5 - Test failed: safety sensor on contact 6R. | |
| Access | 86 | A6 - Test failed: safety sensor on contact 8R. | |
| | ר א | A7 - Incorrect connection of contact 9 to terminal 41 | Check that terminal 41 and 9 are correctly connected. |
| | 89 | A9 - Overload on output 30-G3. | Check the device connected to output 30-G3 is working properly. |
| | BB | AB - Overload on output 30-13 | Check the device connected to output 30-13 is working properly. |

12. Troubleshooting

| Problem | Possible cause | Alarm ling | signal- | Operation |
|---|--|------------------|--------------------|--|
| The control panel does not switch | No power supply. | | | Check the power supply cable and the F1 fuse. |
| on | Internal fault | | | Contact Technical Service |
| | No power. | | | Check the power supply cable and the F1 fuse. |
| | Short circuited accessories. | IS | | Disconnect all accessories from ter- minals 0-1 or 0-30 (a voltage of 24 V= must be present) and reconnect them one at a time. Contact Technical Support Service |
| | Blown line fuse. | | | Replace fuse F1. |
| | Safety contacts are open. | 1-6 68 | 1-8 | Check that the safety contacts are closed correctly (NC). |
| The automation does not open or close | Salety contacts not correctly | AØ A 1 A 3 | - 6 - 8 6 8 | Check connections to terminals 6-8 on control panel and connections to the self-controlled safety edge. |
| | Photocells activated. | 1-6 | 1-8 | Check that the photocells are clean and operating correctly. |
| | The safety edges connected to 6R and 8R are pressed or blocked | 6R | BR | Check the resistance values of the safety edges. |
| | The automatic closure does not work. | | | Issue any command. If the problem per- sists, contact Technical Service |
| | Faulty motor or tripping of thermal switch. | M | B | Check motor connection, if the problem persists, contact Technical Service. |

| Problem | Possible cause | Alarm signal- ling | Operation |
|--|--|-----------------------|---|
| External safety devices not acti- vating | Incorrect connections between the photocells and the control panel. | | Check that I- 5 / I- 8 is displayed Connect NC safety contacts together in series and remove any jumpers on the control panel terminal board. |
| | | | Check the $\texttt{PP} \rightarrow \texttt{]6}$ and $\texttt{PP} \rightarrow \texttt{]8}$ setting |
| The automation opens/closes briefly and then stops. | There is a presence of friction. | MI DJ DE | Manually check that the automation moves freely and check the R 1/R2 adjustment. Check that the limit switches, if installed, are working correctly Contact Technical Service |
| has limited range | The radio transmission is im- peded 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. | R Ø R 3 R 5 | Switch the automation off and plug in the correct storage module. 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. |

P2371EN

13. 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.

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