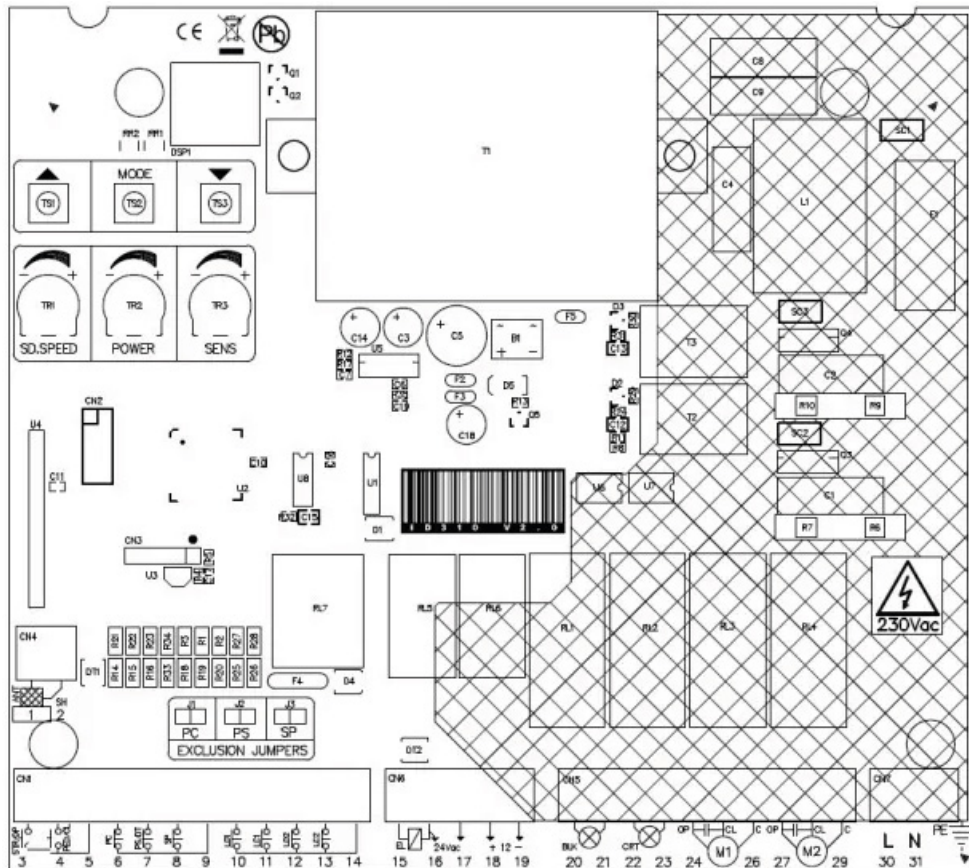


dautomatic

Installation Guide

DC02

230V Electronic Control Panel for Swing Gates



WARNING

Please read the manual carefully before installing and using this product.

First, make sure this product is suitable for your installation. Review the technical specifications thoroughly before starting the installation.

This electronic control unit must be installed properly by qualified professionals, in accordance with the rules and regulations of the country where it is being installed. Routine maintenance is required every 6 months. Only qualified technicians should perform maintenance or repairs. Always turn off the power before performing any maintenance or repairs.

This device is designed for swing gate automation; it is not recommended for use with other types of equipment.

Failure to follow these guidelines may result in serious harm to people, animals, or property. The manufacturer is not responsible for any consequences arising from non-compliance.

Do not leave this control unit unattended or within reach of children.

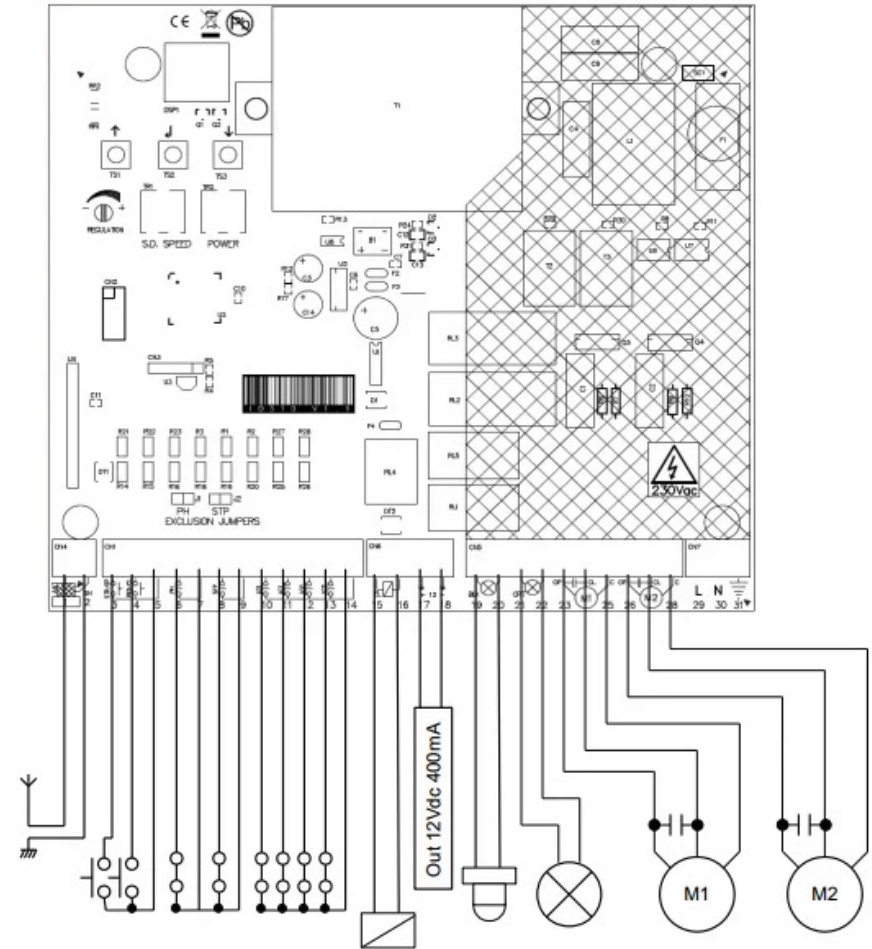
Preliminary Check

Before installing this unit, ensure that all connected devices meet the technical requirements listed in the table below. Check that the switch is working properly and has sufficient lifespan for this installation. Make sure the wiring used is also suitable for the setup.

Technical Specifications

Power Supply:	$^{\circ} \text{Vac} \pm \text{---} \%$
Power Consumption:	$\text{---} \text{mW (Stand-by)}$
Output Voltage:	$^{\circ} \text{Vdc}, \text{---} \text{mA} / ^{\circ} \text{Vac}, \text{---} \text{mA}$
Lock Output:	$^{\circ} \text{Vac}, \text{---} \text{A}$
Motor Output:	$^{\circ} \text{Vac}, \text{---} \text{W}$
Warning Light:	$^{\circ} \text{Vac}, \text{---} \text{W}$
Courtesy Light:	$^{\circ} \text{Vac}, \text{---} \text{W}$
Operating Temperature:	$\text{---} / +^{\circ} \text{C}$

Wiring Diagram



- Antenna
- ° - Antenna Protection
- ⌋ - Start/Open (NO), see parameter αL in the main menu
- ⌋ - Pedestrian Input (NO), see parameter αL in the main menu
- ⌋ - Common
- Photocell Input (NC)
- Safety Device Input (NC), see parameter SF in the main menu
- ^ - Stop Input (NC/NO), see parameter SF in the main menu

- Common
- Motor Limit Switch (NC/NO), see parameter L5 in the main menu
Both inputs open will disable them.
- Motor Limit Switch °(NC/NO), see parameter L5 in the main menu
Both inputs open will disable them.
- Common
- Output for Electric Lock °Vac A
- Auxiliary Power Output °Vac °mA
- Auxiliary Power Output °Vac °mA
- Flashing Light Output °Vac W
- Courtesy Light / Gate Opening Light °Vac W, see parameter Lh in the advanced menu.
- Motor Output open
- Motor Output close
- Motor Output common
- Motor Output °open
- Motor Output °close
- Motor Output °common
- Power Input °Vac
- Ground Connection
J - Photocell Override Jumper
J° - Safety Device Override Jumper
Jc - Stop Input Override Jumper
TR - Slowdown Speed Adjustment
TR° - Motor Power Adjustment
TRc - Sensitivity Adjustment
F - Output Fuse °Vac, A

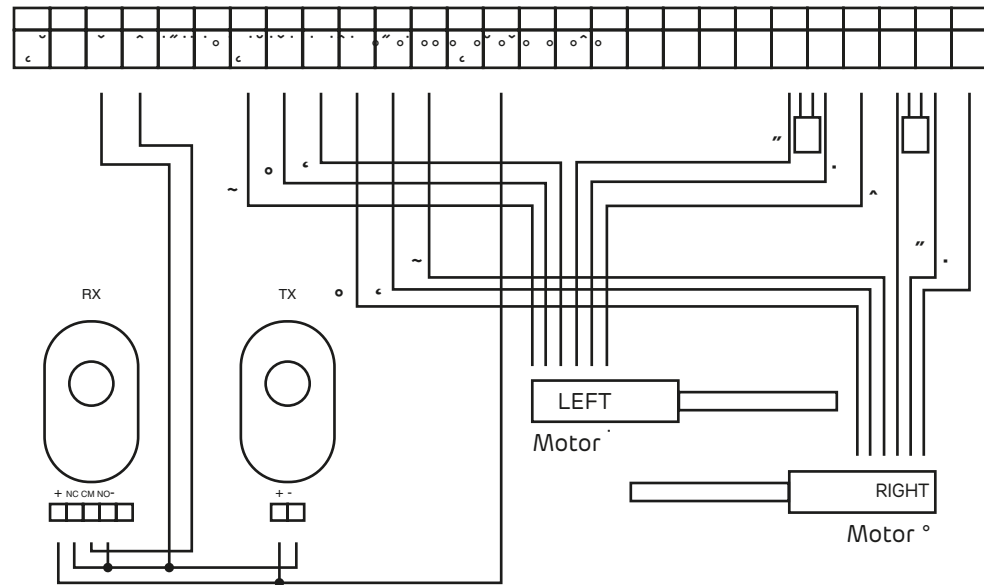
Input Status

The display shows the current status of the following inputs:

-- : No active inputs	PS : Photocell detection active
St : Start input active	dt : Detection input active
Pd : Pedestrian mode input active	o_ : (Left Digit) Open limit M
oP : Opening input active	c_ : (Left Digit) Close limit M
cL : Closing input active	_o : (Right Digit) Open limit M°
Pc : Photocell input active	_c : (Right Digit) Close limit M°
SP : Stop button input active	

While paused, the display shows a countdown in seconds until closing movement begins.

Basic Installation Diagram



Recommended Programming

- Setting the End Stops

Once the arms are installed on the swing gate and the automation is unlocked, close both gate leaves and set the end stop limits using the front screws at the bottom of the automation. Then, open the gate manually to its maximum position and repeat this step with the rear screws at the bottom of the automation.

- Manual Programming Setup

Press the **MENU** button and choose the ___ option. Then go to the submenu ___ to activate this mode. The gate travel will now be programmed manually.

- Remote Control Programming

Select the programming mode ___ by pressing the **MODE** button, then use **UP** and **DOWN** to select the desired functions.

c | : Remote Control Programming on channel |. Select this menu and press the remote control. You can view more settings for this mode on page |.

• - Travel Programming

Hold down the **UP** button until **---** appears on the display. Both panels will begin to close. Press **MODE** (or send a command) when the first panel is fully closed; press **MODE** again (or send the command) when the second panel is also fully closed. The motors are now programmed.

˘ - Photocell Activation

Once the photocells are connected to the control panel, activate them by removing the **JUMPER** [PC].

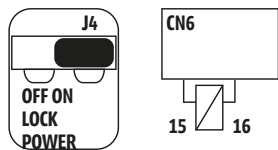
Automatic Programming

You can add transmitters remotely, no need to access the basic menu. To register a code, press the transmitter $\frac{1}{2}$ times with the new code, making sure to pause at least $\frac{1}{2}$ second between each press. Then, press $\frac{1}{2}$ times with the transmitter already registered. If successful, the indicator light flashes briefly. Note: This feature must be enabled—check the advanced menu **---** (remote code learning). The new code will be stored on the same channel as the existing code.

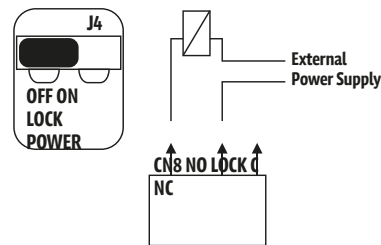
Electric Lock

The system can directly power locks with a consumption up to $\frac{1}{2}$ A. For higher-powered locks, it's recommended to use the dry contact output. Connection diagrams are provided below.

Powered lock output



Dry contact lock output



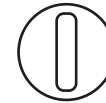
Trimmer Adjustments

The **SD.SPEED** trimmer **SD.SPEED** controls the slow-down speed.

The trimmer **POWER** at maximum speed. To manage power during slow-down, refer to **P-** in the advanced menu.

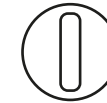
Note: With first second disabled (starting, each motor operates at $\frac{1}{2}$ % of its full power.

The **SENS** trimmer **SENS** adjusts how sensitive the motors are to obstacles.



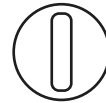
SD.SPEED

Slowdown
Speed



POWER

Motor Power



SENS

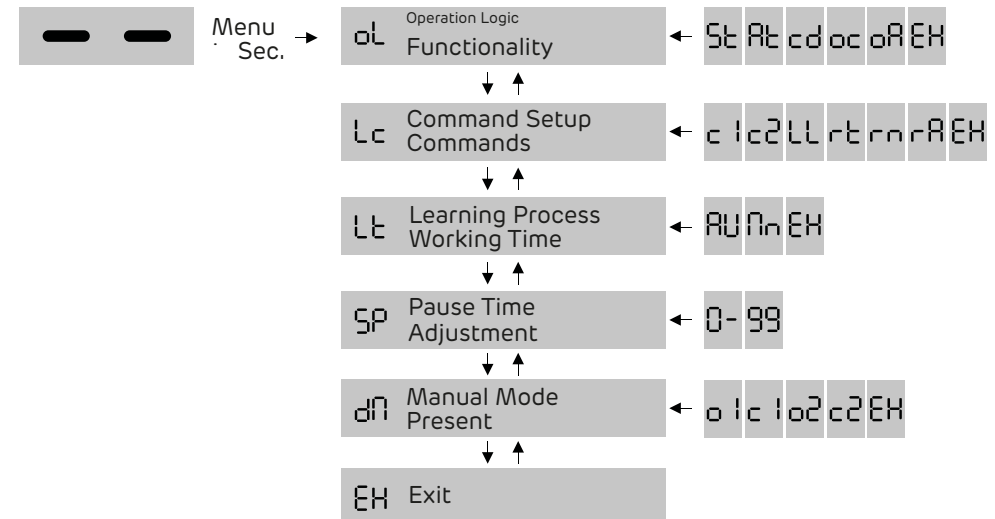
Obstacle
Sensitivity

Control Panel Programming

Main Menu:

Press **MENU** for $\frac{1}{2}$ second to access the main menu. It appears on the display; use **UP** or **DOWN** to scroll through other menu functions.

To exit the menu, select **EH** or press **UP** or **DOWN** at the same time. If there's no action for $\frac{1}{2}$ seconds, the control panel will automatically exit the menu.



OL Operation Logic:

Selects to choose the desired logic and press the **MODE** button. Use the **UP** and **DOWN** buttons to choose the desired logic and press the **MODE** button.

- OL : Step-by-Step Logic
- AL : Auto-Close with Stop Button
- CL : Auto-Close with Building Mode
- OC : Open / Close Function
- OA : Open / Close Function with Auto-Close Mode

To exit the menu, select **EH** or press the buttons **UP** and **DOWN** at the same time.

LC Command Setup / Removal:

Select, and program the following functions by pressing the **MODE** button. Use the **UP** and **DOWN** buttons to select the function and press the **MODE** button.

- CL : Remote Programming on channel 1. Select this menu and press the remote button.
- CL2 : Remote Programming on channel 2. Select this menu and press the remote button.
- LL : Programming to activate courtesy light

Note: Each time a new remote is programmed, the display will show the total number of remotes stored in the control unit.

- RL : Remove a stored remote from the control unit by pressing it in this menu. The display will show " " for a moment if removal is successful.
- RN : Remove a stored remote by its number. Select the number of the remote you wish to delete and confirm by pressing the **MODE** button.
- RA : Deletes all stored remotes from the control unit. To remove every remote, enter this menu and press the button **MODE**, then confirm with **YS**.
To exit the menu, select **EH** or press the buttons **UP** and **DOWN** at the same time.

LE Work Time Programming

Attention: Before starting the learning procedure, make sure the gate is open for automatic learning or closed for manual learning. Use the "hold-to-run" function to move the gate to the correct position.

Quick Installation: Working time automatically; see "Quick Installation" chapter. Select the learning mode using the **MODE** button. Use the **UP** and **DOWN** buttons to select the function and press the **MODE** button.

- ALU : Automatic Learning Procedure
- ALM : Manual Learning Procedure

To exit the menu, select **EH** or press the buttons **UP** and **DOWN** at the same time.

ALU Automatic Work Time Learning Process:

Note: Before starting, make sure at least one transmitter is programmed. During this procedure, all safety inputs will be disabled. The gate leaves will close, and all work times will be learned. For single leaf installations, connect only motor 1 and activate this function in the advanced menu.

If digital limit switches (LO 1, 2 - LC 1, 2) are installed, the control panel automatically learns the work times.

If limit switches are installed in series with the motor and the corresponding function is in the advanced menu, the control panel will automatically learn the work times.

If digital limit switches are not installed, you will need to press **MODE** or send a start command (also by remote) when the first motor (M 1) reaches its end and again when the second motor finishes.

ALM Manual Work Time Learning Process:

Note: Before you start, make sure you have at least one transmitter programmed. Both gate leaves will begin to open; at this stage, you can adjust the slowdown speed using the trimmer. Once both leaves are open, press **MODE** or activate the transmitter near the gate.

If digital limit switches are installed, or limit switches are installed in series with the motor and the corresponding function is in the advanced menu, the control panel will automatically learn the work times.

ALM shown on the display

In the next step, the **MODE** button or a programmed transmitter will control the following sequence: Motor 1 starts, Motor 2 starts, Motor 1 slows, Motor 2 slows, Motor 1 stops, Motor 2 stops.

If only motor 2 is connected (single leaf mode), set the times just for this motor.

If digital limit switches are installed, or limit switches are installed in series with the motor and the corresponding function is in the advanced menu, the control panel will automatically stop at the end of travel.

SP Set Pause Duration:

Use the **UP** and **DOWN** buttons to set the pause time between " " and " " seconds. Press **MODE** to confirm. To exit without saving, press both **UP** and **DOWN** together.

Note: Setting the pause time does not activate automatic gate closing. Please refer to the " " "OL operating logic" chapter to enable this feature.

ALM Hold-to-Run Mode

By selecting this menu, you can control each motor in Manual Mode. Use the **UP** and **DOWN** buttons to choose from the following options:

- o 1: Motor 1 Open
- c 1: Motor 1 Close
- o 2: Motor 2 Open
- c 2: Motor 2 Close
- EH: Exit

Hold down the **MODE** button to enter Manual Mode selection.

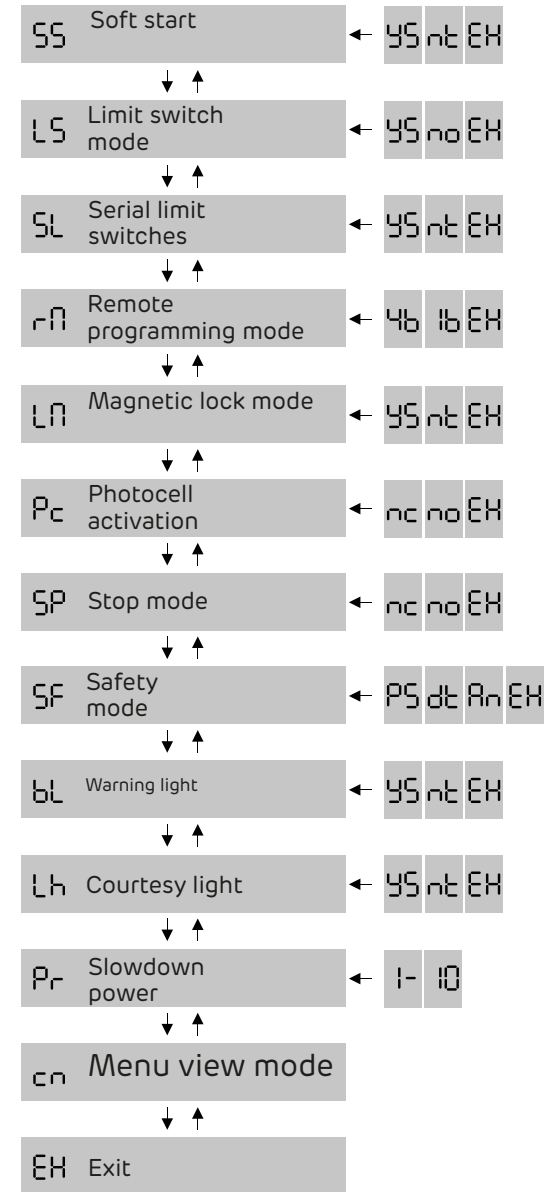
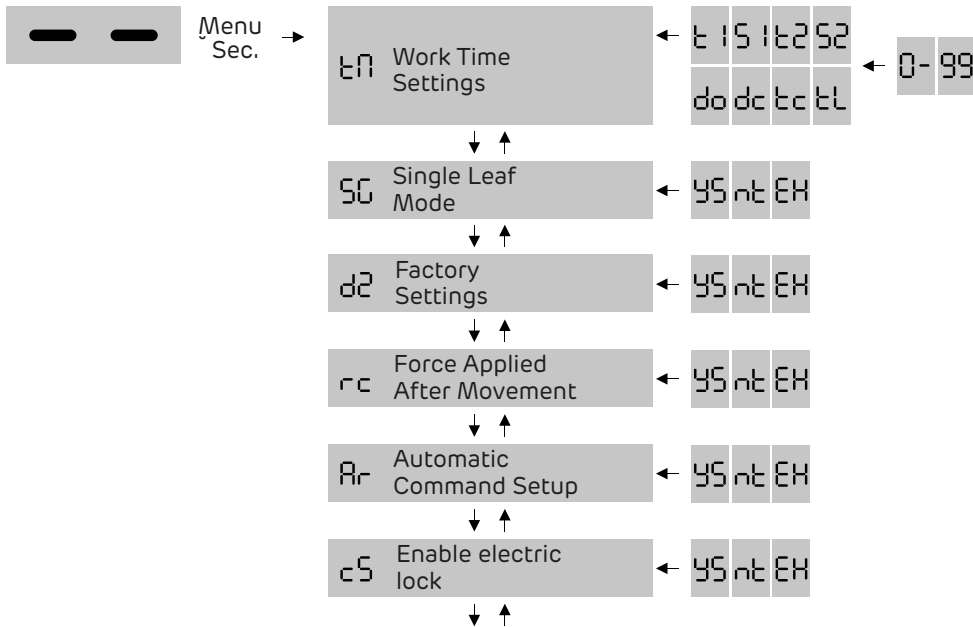
Control Panel Setup

Advanced Menu:

Press and hold the **MENU** button for 3 seconds to enter the advanced menu. Use the **UP** and **DOWN** buttons to navigate through the menu.

To exit the menu, if there is no activity for 30 seconds, the system will exit the menu automatically.

Advanced Menu Map



t1 Work Time Menu

Use this menu to adjust the system's operating times:

t1 : Motor work time

S1 : Motor slow-down

t2 : Motor ° work time

S2 : Motor slow-down °

dc : Leaf spacing on open

dc : Leaf spacing on close

tC : Courtesy light (x" seconds)

tL : Electric lock time activation

EH : Exit advanced menu

Once you've chosen the work time to adjust, use the **UP** and **DOWN** buttons to change it from " up to seconds. Press **MODE** to confirm.

To exit the menu, select **EH** or press **UP** or **DOWN** at the same time.

SC Single Leaf Mode

In this menu, you can view or set the gate to operate in single-leaf mode (motor °).

Press the **UP** and **DOWN** and choose **YS** "yes" to enable this mode, or **nL** "no" to exit, use **EH**. Press **MODE**

d2 Default Settings

If you want to perform a factory reset, just select **YS** to confirm.

rC Force Applied After Movement

When enabled, the motors reverse direction after each movement to relieve pressure on the leaf. Choose "yes" **YS** to activate this mode, or "no" **nL** if you wish to exit **EH**. Press **MODE** to confirm.

Rr Automatic Remote Programming

With this option enabled, you can add new remote controls without entering the main menu.

cS Electric Lock Activation

Here you can set a pulse for the lock at the start of opening, and another pulse at closing to secure the lock.

SS Soft Start

In this menu, you can activate soft start for "s when the motors begin their operation.

LS End-of-Travel Modes

Here you can select the end-of-travel mode for both opening and closing **nc** **nc**.

SL End-of-Travel Modes

When you manage the use of the end-of-travel sensors for the swing motor. Since the controller cannot detect current through the motor, it recognizes when the maneuver ends.

rR Remote Programming Mode

In this menu, you can set the operating mode of the remote control:

ib Each remote button is programmed individually.

tl The " buttons on the remote are programmed together automatically, assigned to open, close, pedestrian, and stop functions.

LN Magnetic Lock Mode

Magnetic lock control is activated. (Whenever the gate is closed)

Pc Photocell Activation

In this menu, you can choose whether to enable photocells, typically for closing mode (**nc**) or for opening mode (**nc**).

SP Stop Mode

In this menu, you can choose whether to enable stop mode, typically for closing (**nc**) or for opening mode (**nc**).

SF Safety Mode

This menu lets you set the PS/DT safety input between these modes:

PS Stop Mode (NC) – While closing, the gate stops if the photocells are blocked, and resumes opening once the path is clear.

When opening, if the photocells are blocked, the gate stops; once unblocked, it continues opening.

Rn Analog Edge Mode "k°: When closing, the gate reverses direction; during opening, the gate reverses only for a few seconds.

dt Detection Mode (NO): During opening, the detection command is recognized and triggers gate closure immediately after a full opening cycle.

bl Beacon Mode

When you manage the feature of the beacon. If you disable this feature the beacon stays on with a steady light while the gate is moving.

Lh Courtesy Light

When you turn on this feature **YS** The courtesy light turns on while the gate is moving.

Pf Motor Slowdown

This menu sets the slowdown power from " to " (" %). The recommended value is " , but it can be adjusted if there's vibration during slowdown.

Menu Display Mode

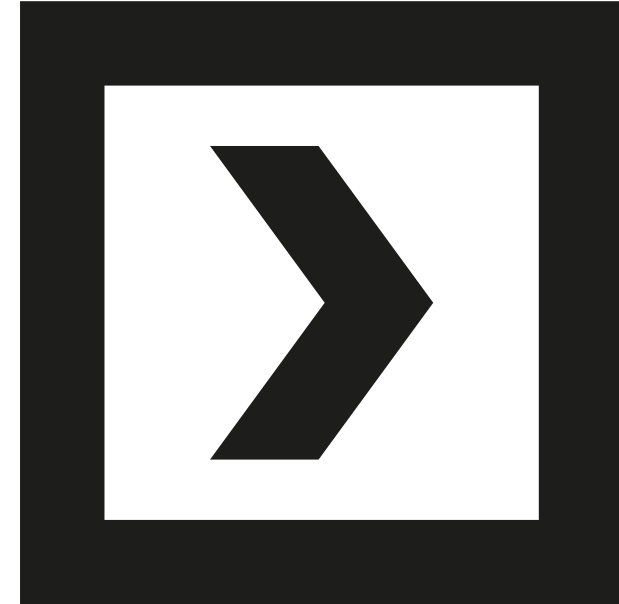
Displays numbers grouped by ° and °. For example: 1° 2' 3" will appear as: 1° - 2' - 3"

Default Configuration

From the device default settings, automatically set after a command

d2

Parameter		Default
oL	Operating Logic	St
SP	Pause Duration	10
SG	Single Leaf Mode	nt
rc	Force Applied After Movement	nt
Rr	Automatic Command Programming	nt
cS	Enable Electric Lock	nt
SS	Soft Start	nt
LS	Limit Switch Mode	nc
SL	Series Limit Switches	nt
rñ	Command Programming Mode	1b
Lñ	Magnetic Lock	nt
Pc	Photocell Activation	nc
SP	Stop Mode	nc
SF	Safety Mode	PS
Pr	Slowdown Power	10
bL	Warning Light	YS
Lh	Courtesy Light	nt
t1 t2	Operating Time	30
S1 S2	Slowdown Duration	20
do	Panel Spacing When Opening	02
dc	Panel Spacing When Closing	05
tc	Courtesy Light	12
tL	Electric Lock Timer Activation	02



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