



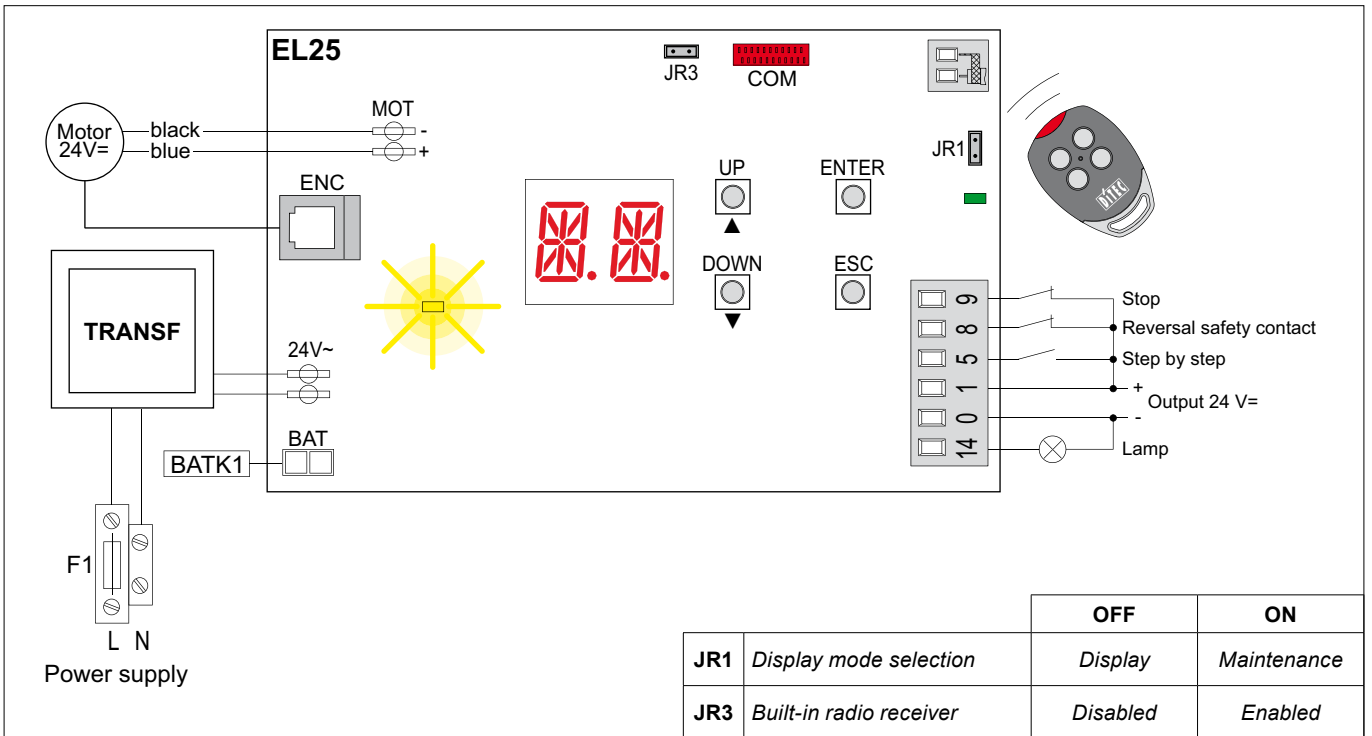
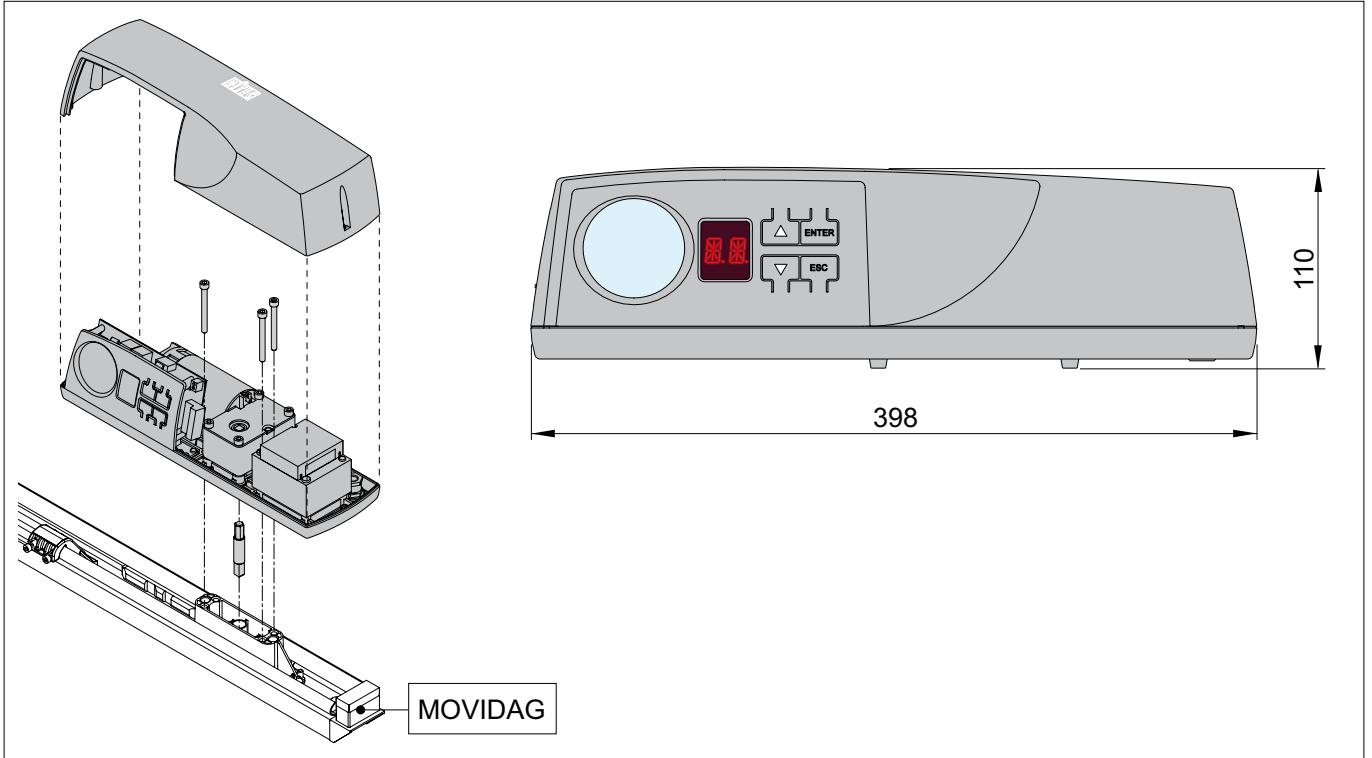
AUTOMATIC ENTRANCE SPECIALISTS



MOVIDAMR

IP2023_GB
rev. 2009-03-25

GB Installation manual for EL25 control panel for MOVIDA automation.



DITEC S.p.A.
Via Mons. Banfi, 3 - 21042 Caronno Pertusella (VA) - ITALY
Tel. +39 02 963911 - Fax +39 02 9650314
www.ditec.it - ditec@ditecva.com

ISO 9001
Cert. n° 0957



GENERAL SAFETY PRECAUTIONS



This installation manual is intended for professionally competent personnel only.

Installation, electrical connections and adjustments must be performed in accordance with Good Working Methods and in compliance with applicable regulations.

Before installing the product, carefully read the instructions. Bad installation could be hazardous.

The packaging materials (plastic, polystyrene, etc.) should not be discarded in the environment or left within reach of children, as these are a potential source of hazard.

Before installing the product, make sure it is in perfect condition.

Do not install the product in an explosive environment and atmosphere: gas or inflammable fumes are a serious hazard risk.

Before installing the motors, make all structural changes relating to safety clearances and protection or segregation of all areas where there is risk of being crushed, cut or dragged, and danger areas in general.

Make sure the existing structure is up to standard in terms of strength and stability.

The motor manufacturer is not responsible for failure to use Good Working Methods in building the frames to be motorised or for any deformation occurring during use.

The safety devices (photocells, safety edges, emergency stops, etc.) must be installed taking into account: applicable laws and directives, Good Working Methods, installation premises, system operating logic and the forces developed by the motorised door or gate.

The safety devices must protect any areas where the risk exists of being crushed, cut or dragged, or where there are any other risks generated by the motorised door or gate. Apply hazard area notices required by applicable regulations.

Each installation must clearly show the identification details of the motorised door or gate.



Before making power connections, make sure the plate details correspond to those of the power mains.

Fit an omnipolar disconnection switch with a contact opening gap of at least 3 mm. Make sure an adequate residual current circuit breaker and overcurrent cutout are fitted upstream of the electrical system.

When necessary, connect the motorised door or gate to a reliable earth system made in accordance with applicable safety regulations.

During installation, maintenance and repair, interrupt the power supply before opening the lid to access the electrical parts.



To handle electronic parts, wear earthed antistatic conductive bracelets.

The motor manufacturer declines all responsibility in the event of component parts being fitted that are not compatible with the safe and correct operation.

For repairs or replacements of products only original spare parts must be used.

The installer shall provide all information relating to automatic, manual and emergency operation of the motorised door or gate, and provide the user with operating instructions.

MACHINERY DIRECTIVE

Pursuant to Machinery Directive (98/37/EC) the installer who motorises a door or gate has the same obligations as the manufacturer of machinery and as such must:

- prepare the technical file which must contain the documents indicated in Annex V of the Machinery Directive; (The technical file must be kept and placed at the disposal of competent national authorities for at least ten years from the date of manufacture of the motorised door);
- draft the EC declaration of conformity in accordance with Annex II-A of the Machinery Directive and deliver it to the customer;
- affix the CE marking on the power operated door in accordance with point 1.7.3 of Annex I of the Machinery Directive.

For more information consult the "Technical Manual Guidelines" available on Internet at the following address: www.ditec.it

APPLICATIONS

Service class: 2 (minimum 10-5 years of working life with 10-20 cycles per day).

Use: LIGHT (intended for single family installations with infrequent vehicle or pedestrian access).

- The operating performance specifications refer to the recommended weight (about 2/3 of maximum allowed weight). Use with maximum allowed weight could reduce the above performance specifications in technical data.
- The service class, operating times and number of consecutive cycles are merely approximate. These have been statistically determined in average conditions of use and are not certain for each single case. They refer to the period when the product operates without the need for special maintenance.
- Each automatic entrance features variable factors such as: friction, balancing and environmental conditions that can substantially change both the duration and operating quality of the automatic entrance or part of its components (including automatic system). It is up to the installer to adopt adequate safety coefficients for each single installation.

DECLARATION BY THE MANUFACTURER

(Directive 98/37/EC, Annex II, sub B)

Manufacturer: DITEC S.p.A.

Address: via Mons. Banfi, 3

21042 Caronno P.Ia (VA) - ITALY

Declares that the automation system for the MOVIDA sectional doors series

- is intended to be incorporated into machinery or to be assembled with other machinery to constitute machinery covered by Directive 98/37/EC;
- is in conformity with the provisions of the following other EC directives:
 - R&TTE Directive 1999/5/EC;
 - Electromagnetic Compatibility Directive 2004/108/EC;
 - Low Voltage Directive 2006/95/EC;

and furthermore declares that it is not allowed to put the machinery into service until the machinery into which it is to be incorporated or of which it is to be a component has been found and declared to be in conformity with the provisions of Directive 98/37/EC and with national implementing legislation.

Caronno Pertusella,
13-01-2009

Fermo Bressanini
(President)

LEGEND OF SYMBOLS



This symbol indicates instructions or notes regarding safety issues which require particular attention.



This symbol indicates information which is useful for correct product function.



This symbol indicates instructions or notes intended for technical and expert personnel.

1. TECHNICAL DATA

	MOVIDAMR
Power supply	230 V~ / 50-60 Hz
Absorption	0,7 A
Fuse F1	F1,6A
Thrust	500 N
Max load	7 m ²
Opening speed	0,08 ÷ 0,15 m/s
Closing speed	0,08 ÷ 0,15 m/s
Service class	2 - LIGHT
Intermittence	S2 = 7 min S3 = 15%
Temperature	-20°C / +55°C
Degree of protection	IP20
Control panel	EL25 (incorporated)

2. ELECTRICAL CONNECTIONS

2.1 Commands

Command	Function	Description
1 — 5	N.O. STEP-BY-STEP	Selecting BC ▶ CS ▶ FS , the closure of the contact activates a closing or opening operation in the sequence: open-stop-close-open. <i>Warning: if automatic closing is enabled, the duration of the stop is selected via the selection AP ▶ SS.</i>
	OPENING	Selecting BC ▶ CS ▶ FS , the closure of the contact activates an opening operation.
1 — 8	N.C. REVERSAL SAFETY CONTACT	The opening of the safety contact triggers a reversal of motion (re-opening) during a closing operation. Selecting BC ▶ SO ▶ ON , with the automation idle, the opening of the contact prevents any operation. Selecting BC ▶ SO ▶ OF , with the automation idle, the opening of the contact prevents the closing operation only.
1 — 9	N.C. STOP	Opening the safety contact stops the current operation. <i>Note: the flashing light flashes.</i>

WARNING: Make a jumper on all NC contacts if not in use. The terminals with the same number are equal. The given operating and performance features can only be guaranteed with the use of DITEC accessories and safety devices.

2.2 Outputs and accessories

Output	Value	Description
1 + 0 -	24V= / 0,5 A	Accessories power supply. Power supply output for external accessories. Electronically protected output.
0 14	24V= / 25 W (1 A)	Flashing light (LAMPH). Selecting ► ► , the flashing light activates simultaneously with the opening and closing operation. <i>Note: with automatic closing enabled, there is a pre-flashing of 3 s that cannot be regulated.</i>
0 14	24V= / 25 W max. (1 A)	Courtesy light. Selecting ► ► , it is possible to connect a courtesy light that activates each time an opening command or closing command is received. The duration of the light can be regulated via the adjustment ► and ► .
 COM		Memory module. The memory module is necessary in order to memorize radio commands, user configurations and to automatically save the configuration in use.
		Built-in courtesy light. The duration of lighting is adjustable using the ► and ► commands. The maximum duration that can be set is 3 minutes.
BAT		Battery operation (BATK1). The batteries are kept charged when the power supply is on. If the power supply is off, the panel is powered by the batteries until the power is re-establish or until the battery voltage drops below the safety threshold. The panel turns off in the last case. <i>Warning: the batteries must always be connected to the control panel for charging. Periodically check the efficiency of the batteries.</i>

2.3 Jumper

	Description	OFF	ON
JR1	Display mode setting.	Visualization mode. It is only possible to visualize the values and parameters present.	Maintenance mode. It is possible to visualize and modify the values and parameters present. The entry in maintenance mode is indicated by the permanent switching on of the right-hand point.
JR3	Built-in radio receiver.	Disabled.	Enabled.

2.4 Signals

LED	ON	Flashing
green	24 V= power supply.	Indicates the transfer of data during DMCS programming.

3. COMMANDS



Warning: the pressure on the keys can be quick (less than 2 s) or prolonged (longer than 2 s). Unless specified otherwise, quick pressure is intended.

To confirm the setting of a parameter, prolonged pressure is necessary.

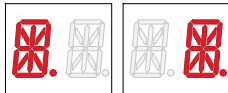
3.1 Switching on and off

The procedure to switch on the display is as follows:

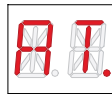
- press the ENTER key



- start of display functioning check



- visualization of first level menu



The procedure to switch off the display is as follows:

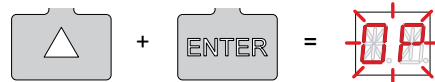
- press the ESC key and keep it pressed



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

3.2 Key combinations

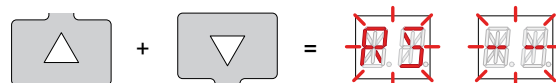
The simultaneous pressing of the keys ▲ and ENTER performs an opening command.



The simultaneous pressing of the keys ▼ and ENTER performs a closing command.



The simultaneous pressing of the keys ▲ and ▼ performs a POWER RESET command.
(Interruption of the power supply and restart of the automation).





3.3 Main menu

- use the keys ▲ and ▼ to select the required function



- press the ENTER key to confirm



Display	Description
	AT - Automatic Configurations. The menu allows you to manage the automatic configurations of the control panel.
	BC - Basic Configurations. The menu allows to visualize and modify the main settings of the control panel.
	BA - Basic Adjustments. The menu allows to visualise and modify the main adjustments of the control panel.
	RO - Radio Operations. The menu allows you to manage the radio operations of the control panel.
	SF - Special Functions. The menu allows to set the password and manage the special functions in the control panel.
	CC - Cycles Counter. The menu allows to visualise the number of operations carried out by the automation, and manage the maintenance interventions.
	AP - Advanced Parameters. The menu allows to visualize and modify the advanced settings and adjustments of the control panel.

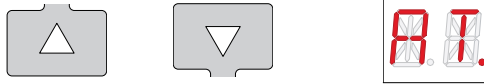
After confirming the selection, you access the second level menu.



Warning: it is possible that, owing to the type of automation and control panel, certain menus are not available.

3.4 Second level menu - AT (Automatic Configurations)

- use the keys ▲ and ▼ to select the required function



- press the ENTER key to confirm



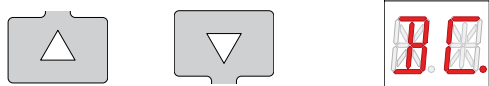
The procedures to activate the functions are described in the table.

Display	Description
	<p>H0 - Predefined setting for residential use 0.</p> <p> </p> <p>This selection loads predefined values for certain standard parameters:</p> <ul style="list-style-type: none"> AC - enabling of automatic closing : disabled C5 - step-by-step/opening command operation : step-by-step RM - remote control operation : step-by-step SS - selection automation status at start up : open
	<p>H1 - Predefined setting for residential use 1.</p> <p> </p> <p>This selection loads predefined values for certain standard parameters:</p> <ul style="list-style-type: none"> AC - enabling of automatic closing : enabled TC - setting of automatic closing time : 30 s C5 - step-by-step/opening command operation : step-by-step RM - remote control operation : step-by-step SS - selection automation status at start up : closed
	<p>C0 - Predefined setting for condominiumal use 0.</p> <p> </p> <p>This selection loads predefined values for certain standard parameters:</p> <ul style="list-style-type: none"> AC - enabling of automatic closing : enabled TC - setting of automatic closing time : 30 s C5 - step-by-step/opening command operation : opening RM - remote control operation : opening SS - selection automation status at start up : open
	<p>RD - Resetting the basic settings (SETTINGS RESET).</p> <p> </p>

Warning: it is possible that, owing to the type of automation and control panel, certain menus are not available.

3.5 Second level menu - BC (Basic Configurations)

- use the keys ▲ and ▼ to select the required function



- press the ENTER key to confirm



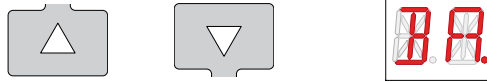
Display	Description		
	AC - Enabling of automatic closing		
	C5 - Step-by-step/opening command operation.		
	RM - Radio receiver functionality.		
	OD - Installation side (as seen from automation side).		
	SS - Selection of automation status at activation. Indicates how the control panel considers the automation at the time of switch-on, or after a POWER RESET command.		
	SO - Enabling reversal safety contact functionality. When enabled (ON) with the automation idle, if the contact 1-8 is open, all operations are prevented. When disabled (OFF) with the automation idle, if the contact 1-8 is open, it is possible to activate the opening operation.		
	FF - Setting function of 0-14 exit. OF - Courtesy light ON - Flashing light		



Warning: it is possible that, owing to the type of automation and control panel, certain menus are not available.

3.6 Second level menu - BA (Basic Adjustments)

- use the keys ▲ and ▼ to select the required function

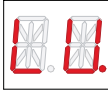
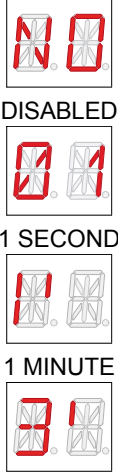
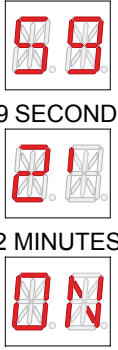
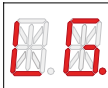
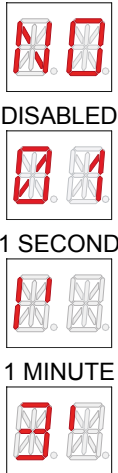
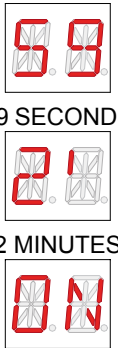
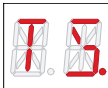
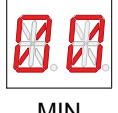
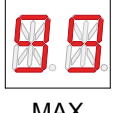
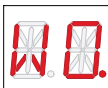
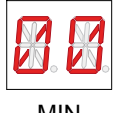

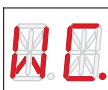
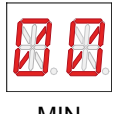



- press the ENTER key to confirm



i Warning: the gap between the adjustment values of the parameters may vary according to the type of automation.

Display	Description		
	RF - Motor power adjustment. [A] Note: refer to chapter 5 Calculating operating power.		
	R1 - Adjustment of obstacle thrust during closing. [A] The control panel is equipped with a safety device that stops or inverts movement in presence of an obstacle. Note: refer to chapter 5 Calculating operating power.		
	R2 - Adjustment of obstacle thrust during opening. [A] The control panel is equipped with a safety device that stops or inverts movement in presence of an obstacle. Note: refer to chapter 5 Calculating operating power.		
	FP - Power limit setting during holding in open position. [A] Used to keep automation open, in the event it tends to close when in a completely open position.		
	VA - Setting opening speed. [cm/s]		
	VC - Setting closing speed. [cm/s]		
	TC - Setting automatic closing time. [s] Adjustment occurs with intervals of varying sensitivity. - from 0 to 59 sec with 1 sec intervals; - from 1 to 2 min with 10 sec intervals.		
		0 SECONDS 	59 SECONDS
		1 MINUTE	2 MINUTES

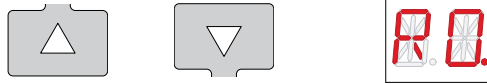
Display	Description		
	<p>LU - Setting switch-on time for courtesy light. [s] Adjustment occurs with intervals of varying sensitivity.</p> <ul style="list-style-type: none"> - from 0 to 59 sec with 1 sec intervals; - from 1 to 2 min with 10 sec intervals; - from 2 to 3 min with 1 min intervals; <p>NO - Disabled ON - Permanent switch-on, switch-off using radio command</p> <p>i Warning: the courtesy light switches on at the start of each operation.</p>		
	<p>LG - Setting switch-on time for independent light. [s] Adjustment occurs with intervals of varying sensitivity.</p> <ul style="list-style-type: none"> - from 0 to 59 sec with 1 sec intervals; - from 1 to 2 min with 10 sec intervals; - from 2 to 3 min with 1 min intervals; <p>NO - Disabled ON - Switch-on and switch-off using radio command</p> <p>i Warning: the switching on of the light does not depend on the start of an operation, but it is possible to control it separately using the relevant transmitter key.</p> <p>i Note: the lighting of the built-in courtesy light is limited to 3 minutes.</p>		
	<p>TS - Setting renewal of automatic closing time after safety release. [%]</p>		
	<p>WO - Setting opening pre-flashing time. [s] Adjustment, in seconds, of the lead time for the switch-on of the flashing light, in relation to the start of the manoeuvre from a voluntary command.</p>		
	<p>WC - Setting closing pre-flashing time. [s] Adjustment, in seconds, of the lead time for the switch-on of the flashing light, in relation to the start of the manoeuvre from a voluntary command.</p>		

i Warning: it is possible that, owing to the type of automation and control panel, certain menus are not available.

3.7 Second level menu - RO (Radio Operations)



- use the keys ▲ and ▼ to select the required function

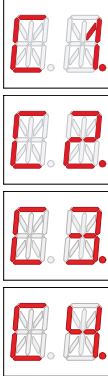


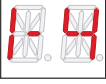


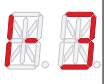
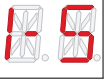

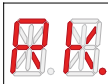
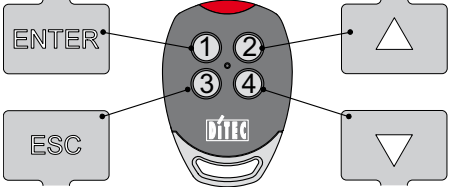
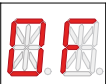



- press the ENTER key to confirm



The procedures to activate the functions are described in the table.

Display	Description		
	<p>SR - Transmitter memory storage.</p> <p>It is possible to directly access the <i>Transmitter memory storage</i> menu with the display switched off, but only with <i>Display visualization mode</i> set at 00 or 03:</p> <ul style="list-style-type: none"> - by transmitting a remote control not present in the memory, - by transmitting an unstored channel of a remote control already present in the memory. 		
	<p>ER - Deleting a single transmitter.</p>		
	<p>EA - Total memory deleting.</p>		
	<p>EC - Deleting a single code. (FUTURE USE)</p>		
	<p>RE - Setting memory opening from remote control.</p> <p>When enabled (ON) remote programming is activated. To memorise new transmitters without using the control panel, press and hold down the PRG key of an already-memorised GOL4 transmitter for 5 seconds until the LED switches on (within the capacity of the receiver) and press any CH key of the new transmitter.</p> <p><i>Note: make sure that undesired transmitters are not accidentally memorized.</i></p>		
	<p>MU - Setting the maximum number of transmitters that can be memorized on a memory module.</p> <p>It is possible to memorise up to 100 or 200 rolling code transmitters.</p> <p>! Note: it is necessary to set MU -> 100 to allow the system configuration to be saved on the memory module.</p>		

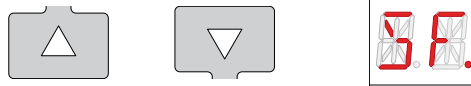
Display	Description		
	<p>C1 - Setting key 1 function of memorized transmitter. C2 - Setting key 2 function of memorized transmitter. C3 - Setting key 3 function of memorized transmitter. C4 - Setting key 4 function of memorized transmitter.</p> <p>NO - None 1-3 - Opening command 1-4 - Closing command 1-5 - Step-by-step command P3 - Partial opening command LG - Courtesy light status change command 1-9 - STOP command</p>  <p>i Warning: 1-3 (opening) and 1-5 (step-by-step) are binary options and are dependent by the BC ► RM selection.</p>	 NONE  CLOSING  PARTIAL  STOP	 OPENING  STEP-BY-STEP  COURTESY LIGHT
	<p>RK - Navigation via transmitter keyboard. With the display switched off, quickly type the sequence of keys ③ ③ ② ④ ① using the desired memorized transmitter. <i>Note: it is recommended to use a dedicated transmitter.</i></p> <p>! <i>Warning: during navigation via transmitter keyboard, NONE of the memorized transmitters are active.</i></p> <p>To test the new configuration, switch off the display and give an open command using key ③.</p>  <p>Navigation via transmitter keyboard is automatically disabled after 4 minutes of inactivity or by setting RR ► DE.</p>	 OFF	 ON

i Warning: it is possible that, owing to the type of automation and control panel, certain menus are not available.

3.8 Second level menu - SF (Special Functions)



- use the keys ▲ and ▼ to select the required function






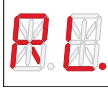

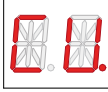
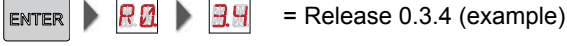




- press the ENTER key to confirm



The procedures to activate the functions are described in the table.

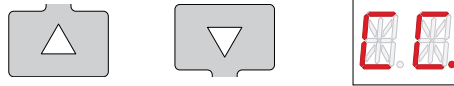
Display	Description
	<p>SP - Setting the password.</p> <p> (EXAMPLE) 2 s </p> <p>i Note: this is only possible when the password is not set. The setting of the password prevents unauthorised personnel from accessing selections and adjustments.</p> <p> It is possible to annul the set password by selecting the sequence J1=ON, J1=OFF, J1=ON.</p>
	<p>IP - Inserting the password.</p> <p> (EXAMPLE) 2 s </p> <p>i Note: this is only possible when the password is set. When the password is not inserted, it is possible to access the visualisation mode regardless of the selection made with JR1. When the password is inserted, it is possible to access the maintenance mode.</p>
	<p>CF - Activation of the power calculation manoeuvre and resetting of the stored power profile.</p> <p> 2 s </p> <p>! Note: the operating power calculation manoeuvre must be monitored because it may occur with automation power values that are higher than the allowed limits.</p>
	<p>RD - Resetting the basic settings (SETTINGS RESET).</p> <p> 2 s </p>
	<p>EU - Deleting user configurations and the last configuration set present in the memory module.</p> <p> 2 s </p>
	<p>SV - Saving user configuration.</p> <p> (EXAMPLE) 2 s </p> <p>Selecting it is possible to save up to 2 personalised configurations in the memory positions and only with the storage module present on the control panel.</p>

Display	Description
	<p>RC - Loading configuration.</p>  <p>It is possible to load the configurations previously saved, or load the predefined settings available in the memory positions  ,  and  .</p>
	<p>RL - Loading the last configuration set.</p> <p><i>Note: the control panel automatically saves the last configuration set, and keeps it memorised in the storage module. In the event of a fault or the replacement of the control panel, it is possible to restore the last configuration of the automation by inserting the storage module and loading the last configuration set.</i></p> 
	<p>CU - Viewing the electronic panel's firmware version.</p>  <p> <i>Note: view only.</i></p>

 **Warning:** it is possible that, owing to the type of automation and control panel, certain menus are not available.

3.9 Second level menu - CC (Cycles Counter)

- use the keys ▲ and ▼ to select the required function



- press the ENTER key to confirm



The procedures to activate the functions are described in the table.

Display	Description
	<p>CV - View total manoeuvres counter.</p> <p>ENTER → 24 → 16 → 25 = 241.625 manoeuvres (example)</p> <p>i Note: view only.</p>
	<p>CA - Setting the maintenance alarm interval. (max 300.000 partial manoeuvres)</p> <p>ENTER → 00 → ▲ ▼ → 08 → ENTER = 08 ——— 08 50 00 = 85.000 manoeuvres (ex.) (EXAMPLE)</p> <p>→ 00 → ▲ ▼ → 50 → ENTER = 50 (EXAMPLE)</p> <p>→ 00 → ENTER = 00 2 s</p> <p>It is possible to set the required number of operations for the signalling of the maintenance alarm.</p>
	<p>OA - Selecting maintenance alarm viewing mode.</p> <p>00 - Display (display alarm message)</p> <p>01 - Flashing light (when automation is closed it flashes 4 times every 60 minutes)</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> DISPLAY </div> <div style="text-align: center;"> FLASHING </div> </div>
	<p>CP - View partial manoeuvres counter.</p> <p>ENTER → 07 → 16 → 25 = 71.625 manoeuvres (example)</p> <p>i Note: view only.</p>
	<p>ZP - Resetting partial manoeuvres counter.</p> <p>ENTER → 2 s</p> <p>To ensure correct operation, it is recommended to reset the partial manoeuvres counter:</p> <ul style="list-style-type: none"> - after each maintenance intervention, - after each setting of the maintenance alarm interval.

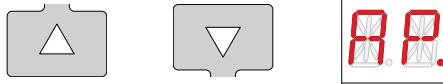


Warning: it is possible that, owing to the type of automation and control panel, certain menus are not available.



3.10 Second level menu - AP (Advanced Parameters)

- use the keys ▲ and ▼ to select the required function



- press the ENTER key to confirm



Warning: the gap between the adjustment values of the parameters may vary according to the type of automation.



Given the complexity of the parameters, use of the Advanced Parameters menu is recommended only for qualified technical personnel.

Display	Description		
	AA - Activating advanced parameters menu. i <i>Note: activation necessary before being able to scroll through the AP menu.</i>	 OFF	 ON
	DO - Setting of disengagement on obstacle during opening. [mm]	 MIN	 MAX
	DC - Setting of disengagement on obstacle during closing. [mm]	 MIN	 MAX
	HO - Activation of opening stop current halving.	 OFF	 ON
	HC - Activation of closing stop current halving.	 OFF	 ON
	VS - Verification of mechanical stops. When enabled (ON) the automation, with each operation, carries out a check of the mechanical stops with a force on them and carries out the disengagement.	 OFF	 ON
	DT - Adjustment obstacle identification time. i <i>Note: adjustment of parameter done in hundredths of a second.</i>	 0,05 s	 0,30 s
	OT - Select obstacle type. 00 - Overcurrent or door stopped 01 - Overcurrent 02 - Door stopped	 ALL DOOR	 CURRENT
	PP - Step-by-step sequence. OFF - Opening-Stop-Closing-Opening ON - Opening-Stop-Closing-Stop-Opening	 OFF	 ON

Display	Description		
	S5 - Duration of STOP in step-by-step sequence.	TEMPORARY	PERMANENT
	R9 - Enablement of automatic closing after command 1-9 (STOP). When enabled (ON), after a command 1-9 the automation carries out the automatic closing (if enabled), after the set time.	OFF	ON
	ST - Starting time setting. [s]	MIN	MAX
	TA - Acceleration time setting. [s]	MIN	MAX
	PO - Approaching speed during opening. [cm/s]	MIN	MAX
	PC - Approaching speed during closing. [cm/s]	MIN	MAX
	OB - Opening slow-down distance. [cm]	MIN	MAX
	CB - Closing slow-down distance. [cm]	MIN	MAX
	OO - Opening obstacle identification limit setting. [mm]	MIN	MAX
	OC - Closing obstacle identification limit setting. [mm]	MIN	MAX
	DS - Setting of display viewing mode. 00 - No display 01 - Commands and safety devices with radio test (see paragraph 4.2) 02 - Automation status (see paragraph 4.1) 03 - Commands and safety devices (see paragraph 4.2) Note: setting 01 allows to view the reception of a radio transmission for checking its range.	NONE STATUS	RADIO TEST COMMANDS
	D8 - Selecting device connected to terminals 1-8. NO - None SE - Safety edge PH - Photocells	NONE 	EDGE
		PHOTOCELLS	

i Warning: it is possible that, owing to the type of automation and control panel, certain menus are not available.

4. DISPLAY VIEWING MODE

i Warning: it is possible that, owing to the type of automation and control panel, certain menus are not available.

4.1 Automation status display

i Warning: the automation status display mode is visible only with the *Display viewing mode* set on 02.

AP ▶ DS ▶ 02

Display	Description
	Automation closed.
	Automation open.
	Automation stopped in intermediate position.
	Automation closing.
	Automation opening.
	Automation closing at low speed (slowing down or acquisition).
	Automation opening at low speed (slowing down or acquisition).

4.2 Commands and safety devices display

i Warning: the commands and safety device display mode is only visible with the *Display viewing mode* set on 01 or 03.

AP ▶ DS ▶ 01

AP ▶ DS ▶ 03

Display	Description
	1-3 - Opening command.
	1-5 - Step-by-step command.
	1-8 - Safety with closing reversal.
	1-9 - STOP command.
	RX - Radio reception (of any memorised transmitter key present in the memory module).

	NX - Radio reception (of any key not memorised).
	O1 - Obstacle identification due to current overload.
	O2 - Obstacle identification due to stopped door.
	RV - Enablement/disablement of built-in radio receiver via JR3.
	MQ - Acquisition of mechanical stops in progress.
	J1 - Variation of the JR1 jumper status.
	AF - Acquisition of power profile.

4.3 Alarms and anomalies display



Warning: alarms and anomalies are displayed when any display selection is made. The signaling of alarm messages takes priority over all other displays.

Type of alarm	Display	Description	Remedy
Mechanical alarm		M8 - Door dimension error - Door too long.	Verify the correct movement of the automation. Reset power. If the problem persists contact customer technical support.
		M9 - Door dimension error - Door too short.	Verify the correct movement of the automation. Reset power. If the problem persists contact customer technical support.
		MA - Stop exceed error.	Verify the correct movement of the automation. Reset power. If the problem persists contact customer technical support.
		MB - Absence of motor during operation.	Check the correct electric connection of motor.
		MI - Detection of third consecutive obstacle.	Check for the presence of permanent obstacles along the automation path.
Internal control panel alarm		IA - Error internal parameter.	Carry out a new current profile acquisition as indicated in paragraph 3.8.
		IC - Error operation timeout.	Verify the correct movement of the automation. Reset power. If the problem persists contact customer technical support.
Encoder alarm		E0 - Encoder not working.	Verify the correct movement of the automation. Reset power. If the problem persists contact customer technical support.
		E2 - Motor cable or encoder phase inversion.	Check the correct electric connection of motor and encoder.
Emergency functions		G1 - Activation emergency closing or antitheft command.	Verify that excessive spring tension is not causing the door to re-open.

Radio operations alarm		R0 - Insertion of a memory module containing more than 100 memorized transmitters. <i>Warning: the R0 ▶ MU ▶ 20 setting is automatic.</i>	To save the set configurations in the memory module, cancel a few memorized transmitters to bring the total lower than 100. Set R0 ▶ MU ▶ 10 .
		R3 - Memory module not detected.	Insert a memory module.
Service		V0 - Request for maintenance intervention.	Proceed with the scheduled maintenance intervention.

5. CALCULATING OPERATING POWER

The EL25 control panel is equipped with an innovative automatic detection system of the power necessary for the correct function of the automation at each point during opening and closing operations.

The power profile stored reflects the power necessary for a correct movement taking into consideration the friction present.

The power profile is automatically updated after each completed operation (opening - closing) and gradually it adapts to the friction deriving from the progressive and natural ageing of the door.

To correctly store and adjust the operating power proceed as follows:

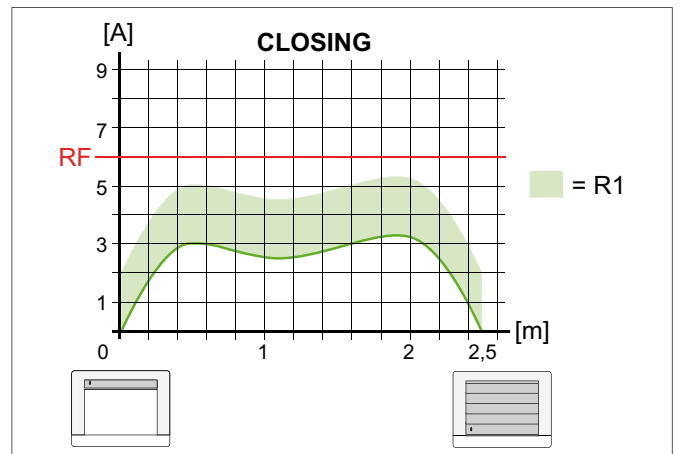
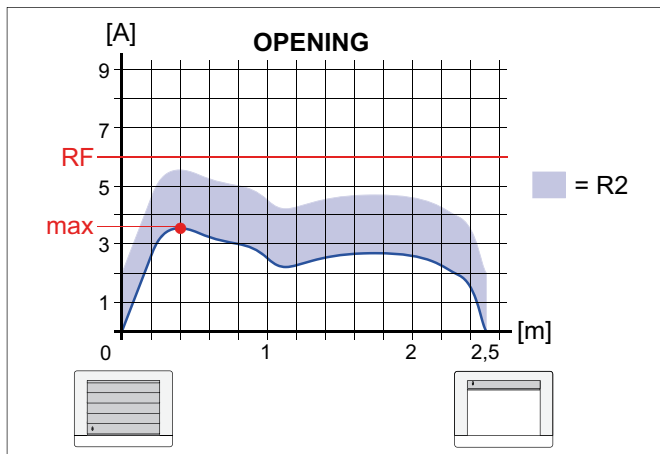
- Activate the operating power calculation manoeuvre **SE** ▶ **CF**.

Give an opening command **ENTER** + and wait for the door to complete the opening operation.

Give a closing command **ENTER** + and wait for the door to complete the closing operation.

The door executes the acquisition of power profile.

Note: the operating power calculation manoeuvre must be monitored because it may occur with automation power values that are higher than the allowed limits.



- Adjust the motor power **BA** ▶ **RF** to a value higher than the maximum power necessary (default value RF=6.0 A).
If the maximum current necessary for the operation is higher than the **RF** value set, the automation stops or inverts the movement.
- Adjust the force exerted on obstacles in opening phase **BA** ▶ **R2** in order to detect the presence of obstacles during the opening operation (default R2=2.0 A).
If the maximum power necessary for the opening operation is higher than the power of the previous operation by a value equal, at least, to the **R2** value set, the automation stops movement.
- Adjust the force exerted on obstacles in closing phase **BA** ▶ **R1** in order to detect the presence of obstacles during the closing operation (default R1=2.0 A).
If the maximum power necessary for the closing operation is higher than the power of the previous operation by a value equal, at least, to the **R1** value set, the automation inverts movement.

6. STARTING



Note: manually check the correct movement of the door and the correct position of the mechanical opening stop.

- 4.1 Make a jumper for safety contacts 1-8, 1-9. Set JR1=ON, JR3=ON.
- 4.2 Verify the presence of the correctly inserted memory module.
- 4.3 Manually open and close the door and check the correct balance of the springs and that the path is free of obstacles. Bring the door to a closed position.
Switch on power.
Warning: the following operations are performed with no safety devices.
- 4.4 Activate the operating power calculation manoeuvre **SF** ▶ **CF**.
Give an opening command **ENTER** + **▲** and wait for the door to complete the opening manoeuvre.
Give a closing command **ENTER** + **▼** and wait for the door to complete the closing manoeuvre.
The door executes the acquisition of power profile.
- 4.5 Give an opening command **ENTER** + **▲** and check the correct execution of the manoeuvre.
*Note: if the automation stops before completing the opening manoeuvre, increase the **RF** parameter value and repeat the operation (refer to chapter 5).*
- 4.6 Give a closing command **ENTER** + **▼** and check the correct execution of the manoeuvre.
*Note: if the automation stops before completing the closing manoeuvre, increase the **RF** parameter value and repeat the operation (refer to chapter 5).*
- 4.7 Load the predefined setting most suitable for system available in the **AT** menu.
- 4.8 In order to save the configurations in the memory module it is necessary to set **RO** ▶ **MU** ▶ **NO**.
- 4.9 To modify the operation and deceleration speed settings, the automatic closing times, and the thrust on obstacles, consult the menus.
- 4.10 Connect the safety devices (removing all relevant jumpers) and verify their correct operation.
*Note: ensure that the forces exerted by the door wings are compliant with EN12453-EN12445 regulations. (refer to the **R1** and **R2** parameter adjustments as indicated in chapter 5).*
- 4.11 If desired, memorize the radio commands with command **RO** ▶ **SR** referring to paragraph 3.7.
- 4.12 Connect any other accessories and check operation.

7. RADIO

The control panel is equipped with a radio receiver with a frequency of 433.92 MHz. The antenna is a 173 mm long rigid wire. The range of the radio receiver can be increased by connecting the external antenna on the flashing light or by installing a tuned BIXAL antenna.

Note: use a RG58 (max 10 m) coaxial cable to connect the external antenna to the control panel.

Warning: if the radio receiver on the control panel is not used, set JR3=OFF.

To carry out operations of the memorization or cancellation of the transmitters, see paragraph 3.7.

Transmitter cloning operations are explained on the transmitter packaging.

1 to 4 CH keys of the same transmitter can be memorized in the control panel, see paragraph 3.7.

If the control panel is replaced, the BIXMR2 memory in use can be introduced to the new control panel.

Warning: the insertion and extraction of the BIXMR2 memory must be carried out in the absence of a power supply.

All right reserved

All data and specifications have been drawn up and checked with the greatest care. The manufacturer cannot however take any responsibility for eventual errors, omissions or incomplete data due to technical or illustrative purposes.

DITEC S.p.A.

Via Mons. Banfi, 3
21042 Caronno P.Ila (VA)
ITALY
Tel. +39 02 963911
Fax +39 02 9650314

www.ditec.it
ditec@ditecva.com

**Quarto d'Altino (VE)****Caronno Pertusella (VA)****DITEC BELGIUM**

LOKEREN
Tel. +32 9 3560051
Fax +32 9 3560052
www.ditecbelgium.be

**Lokeren****Oberursel****DITEC DEUTSCHLAND**

OBERURSEL
Tel. +49 6171 914150
Fax +49 6171 9141555
www.ditec-germany.de

DITEC ESPAÑOLA

ARENYS DE MAR
Tel. +34 937958399
Fax +34 937959026
www.ditecespanola.com

**Palaiseau****Balerna****DITEC FRANCE**

PALAISEAU
Tel. +33 1 64532860
Fax +33 1 64532861
www.ditecfrance.com

DITEC GOLD PORTA

ERMESINDE
Tel. +22 977 35 20
Fax +22 977 35 28
www.goldporta.com

DITEC SVIZZERA

BALERNA
Tel. +41 91 6463339
Fax +41 91 6466127
www.ditecswiss.ch

**Orlando****DITEC AMERICA**

ORLANDO - FLORIDA - U.S.A.
Tel. +1 407 8880699
Fax +1 407 8882237
www.ditecamerica.com

DITEC CHINA

SHANGHAI
Tel. +86 21 62363861
Fax +86 21 62363863
www.ditec.cn

DITEC TURCHIA

ISTANBUL
Tel. +90 21 28757850
Fax +90 21 28757798

