CONTROL PANEL FOR DOUBLE/SINGLE SWING GATES 230V ac

Instructions Manual



Q81A





Control panel for 230V ac operators – single and double leaf swing gates

- Automatic programming mode with obstacle detection
- Sequential programming mode: adjustable force, slow down, working time per single motor
- Immediate closing
- Pedestrian opening
- Multi-occupation feature
- Second radio channel interface (optional)
- Output for electrolock connection
- Ram blow and lock pulse function
- Removable radio receiver 433,92 MHz (32 codes) suitable for fixed or rolling code transmitters
- Input for 8K2 resistive safety edge
- Self diagnosis of malfunctions by LED coding

TECHNICAL FEATURES

Item code	PQ81A, PQ81A1D
Pcb's dimensions	137 x 84 x 37 mm
Junction box dimensions	220 x 290 x 90 mm
Pcb's weight	160 g
Main Power supply	230V, 50-60 Hz
Power supply Tolerance	-10% +20%
Transformer	230/21Vac – 15VA
Main Fuse	5 A
Rated power	600 W
Max. power draw	3.5 A
Power draw in stand-by	30 mA
Blinker	24 Vac, max 20 W
Accessories	24 Vdc , max 5 W
Electrolock	12 Vdc, max 15 W
Operating temperature	-20 +50 °C
Protection rating	IP55

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1. SAFETY INSTRUCTIONS AND PRELIMINARY CHECKS

WARNING! Important instructions for the safety of people, READ CAREFULLY!



Save this manual for future consultation.



Do not allow children to play with the fixed command devices, or in the gate's area of operation. Keep any remote control devices (i.e. transmitters) away from the children as well



Children are forbidden to carry out cleaning and maintenance unless accompanied by adults.



Children over 8 years, persons with reduced physical, sensorial, mental capabilities or unexperienced people are limited to use the operator unless accompanied by a supervisor or unless they get properly aware of potential hazards associated.



Always cut the power off before operating.

Make sure the earth connection is duly wired.

Wiring, installation and functional tests must be carried out by expert qualified personnel in full compliance with current regulation EN12453.

Use of this control panel must be restricted to the transformer supplied by the Manufacturer.

A circuit breaker must be fitted close to the gate in compliance with the wiring diagram and installation instructions (see paragraph 3).

Stay clear of the gate's area of operation when in motion

Frequently check the system to see whetherany anomalies or signs of wear and tear appear on the moving parts, on the component parts, on the securing points, on the cables and any accessible connections.

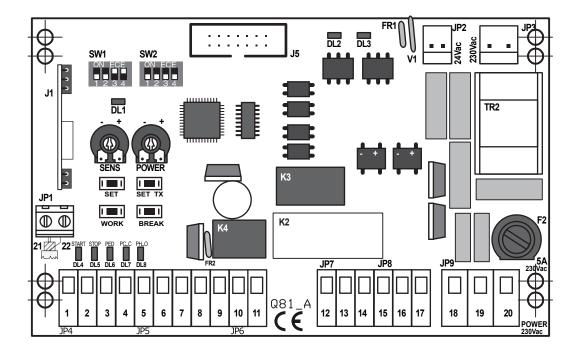
If the system requires repairs or modifications, release the operator and do not use it until safety conditions have been restored.

This control panel is designed to automate single and double leaf gates. In case you wish to automate a single leaf.

Gate be extremely careful to sections marked by this symbol



2. DESCRIPTION AND MAIN COMPONENTS



J1 = radio module

J5 = input for electrolock or second radio channel jacks

F2 = line fuse 230V 5A

FR1 = self resettable fuse 24V 1,6A FR2 = self resettable fuse 24V 0,6A

V1 = varistor secondary K2/K3 = motors relé K4 = flashing light relé

TR2 = filter

= GREEN TERMINAL - aerial connection JP1 JP2 = Secondary MOLEX card 24V ac = Primary MOLEX card 230V ac JP3 JP4 = BLUE TERMINAL – command devices JP5 = RED TERMINAL - line and photocells JP6 = YELLOW TERMINAL – flashing light JP7 = ORANGE TERMINAL - motor 1 (M1) JP8 = BLACK TERMINAL - motor 2 (M2) JP9 = GREEN TERMINAL – line 230V / earth SENS = OBSTACLE DETECTION adjuster

POWER = THRUST adjuster

SW1 - SW2 = FUNCTIONS SELECTION – dip switches mode

PROGRAMMING BUTTONS

WARNING LED

DL1 = PROGRAMMING

DL2 = THRUST MOTOR 1

DL3 = THRUST MOTOR 2

DL4 = START

DL5 = STOP

DL6 = PEDESTRIAN START

DL7 = PHOTOCELL IN CLOSING

DL8 = PHOTOCELL IN OPENING

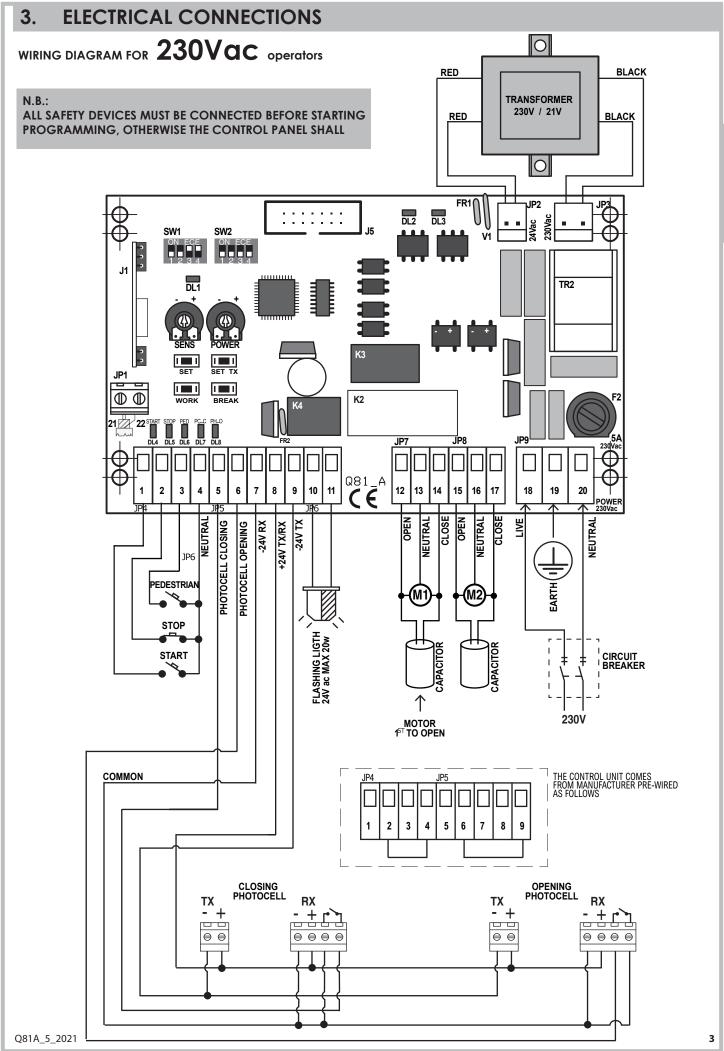












JP1 = Aerial connection	JP1 ∏∰ ²²
21 signal wire22 earth wire	
22 Gain wile	 JP2[]
JP2 = RED WIRES - secondary MOLEX card 24V dc	JP3
JP3 = BLACK WIRES - primary MOLEX card 230V ac	
JP4 = BLUE TERMINAL – command devices	JP4
1 START (N.O. contact) 2 STOP (N.C. contact) 3 PEDESTRIAN (N.O. contact) 4 NEUTRAL	
JP5 = RED TERMINAL – line and photocells	JP5
 5 photocell in closing (N.C. contact) 6 photocell in opening (N.C. contact) 7 RX photocells -24V 8 TX/RX +24V 9 TX photocells -24V 	OP PHOTO OP PHOTO TX - 24V ← TX - RX + 24V ← TX - RS + 24V ←
JP6 = YELLOW TERMINAL – flashing light 10 flashing light 24V ac - max 20W 11 flashing light 24V ac - max 20W	JP6 10 11
JP7 = ORANGE TERMINAL - MOTOR 1 (M1)	JP7
12 OPEN 13 NEUTRAL 14 CLOSE MOTOR M1	12 13 14 15 16 17
JP8 = ORANGE TERMINAL - MOTOR 2 (M2)	OPEN LOSE CLOSE CLOSE CLOSE
15 OPEN 16 NEUTRAL 17 CLOSE MOTOR M2	JP9
JP9 = GREEN TERMINAL - line 230V + earth	f \uparrow \uparrow \uparrow \downarrow \uparrow \downarrow \uparrow \downarrow \uparrow \downarrow \uparrow \downarrow
18 LINE19 EARTH20 NEUTRAL	
Make sure a circuit breaker is properly fitted to the gate electric bo	J5
J5 = input for electrolock and second radio channel jacks	Q81A_5_2021

3.1 **MOTORS WIRING**

M1 first to open and last to close motor $1 \rightarrow$ **M2** motor $2 \rightarrow$ last to open and first to close

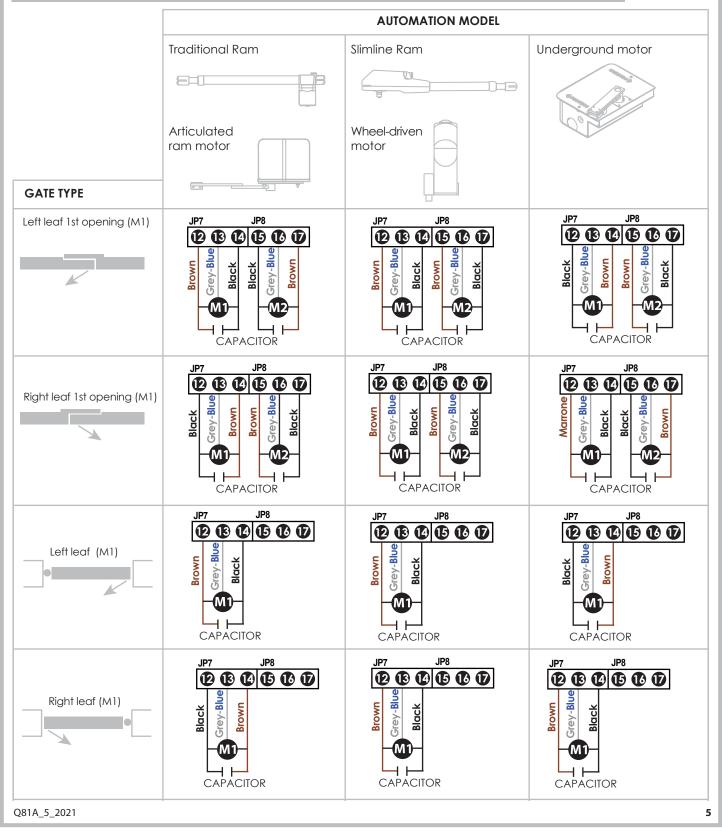
Connect motor 1 M1 to 12 - 13 - 14, terminal JP7. Connect motor 2 M2 to 15 - 16 - 17, terminal JP8.



Tor single leaf gate, connect the motor to 12 – 13 – 14, terminal JP7.

Proceed to wire the operator according to the below table:

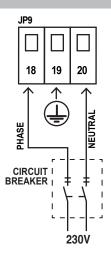
For ARTICULATED ARM OPERATORS disable the motors test - SWITCH 1 (SW1) DIP no. 4



3.2 MAIN POWER

The main line must be protected by a proper CIRCUIT BREAKER.

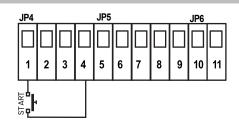
Connect the line 230V to **18 – 19 – 20**, terminal **JP9**, fulfilling the polarity (18 PHASE – 19 EARTH – 20 NEUTRAL).



3.3 START DEVICES

Wire the START contact (N.O. contact) to 1 - 4, terminal JP4.

An additional START contact can be wired in **PARALLEL** (N.O. contact)

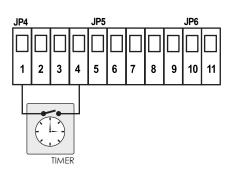


3.3.1 TIMER

It is possible to wire a TIMER (N.O. contact) to 1 - 4, terminal JP4.

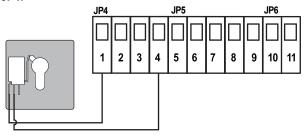
WARNING:

when connecting a TIMER, the multi-users function must be enabled. SW1 DIP 2 = ON



3.3.2 KEY SWITCH

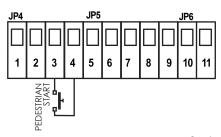
Wire the KEY SWITCH (N.O. contact) to 1 - 4, terminal JP4.



3.4 PEDESTRIAN OPENING

Wire the PEDESTRIAN START (N.O. contact) to 3-4, terminal JP4.

An additional PEDESTRIAN START contact can be wired in PARALLEL (N.O. contact)



3.5 EMERGENCY STOP BUTTON

Wire the STOP BUTTON (N.C. contact) to **2 - 4**, terminal **JP4**. An additional STOP BUTTON contact can be wired in **SERIES** (N.C. contact).



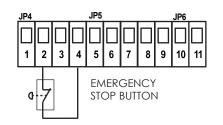
The EMERGENCY STOP BUTTON is important for the safety of people and objects

N.B.: To desable the STOP BUTTON during installation,

plug 2 and 4 together.

Note: Before wiring any STOP contact remove the jumper between

terminal 2 and terminal 4.



3.6 PHOTOCELLS

3.6.1 Photocells IN CLOSING

Feed the photocells through 7-8-9, terminal JP5.

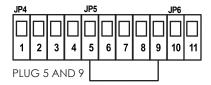
Wire the photocell contact (N.C. contact) to **5-7**, terminal **JP5**. An additional photocell set can be wired in **SERIES** (N.C. contact).

- If the photocell beam is broken during CLOSING, the gate stops and reverses after 1,5 sec.
- If the photocell beam is broken during OPENING, the gate keeps on working normally.



The PHOTOCELLS IN CLOSING are important for the safety of people and objects.

N.B.: To desable the photocell in closing during installation, plug 5 and 9 together.



12Vdc 24Vdc 24Vca 24Vdc TX **RX** 0 0 00 0 0 5 6 8 9 10

3.6.2 Photocells in OPENING

Feed the photocells through **7-8-9**, terminal **JP5**.

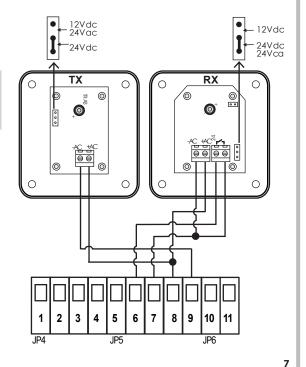
Wire the photocell contact (N.C. contact) to **6-7**, terminal **JP5**. An additional photocell set can be wired in SERIES (N.C. contact).

- If the photocell beam is broken during OPENING, the gate stops temporarily.
- When the photocell beam is free, the gate goes to normal operation.



The PHOTOCELLS IN OPENING are important for the safety of people and objects.

Nota: Before wiring any PHOTOCELL in OPENING, remove the jumper between **terminal 6** and **terminal 9**.



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3.7 SAFETY EDGE

3.7.1 Mechanical safety edge in CLOSING

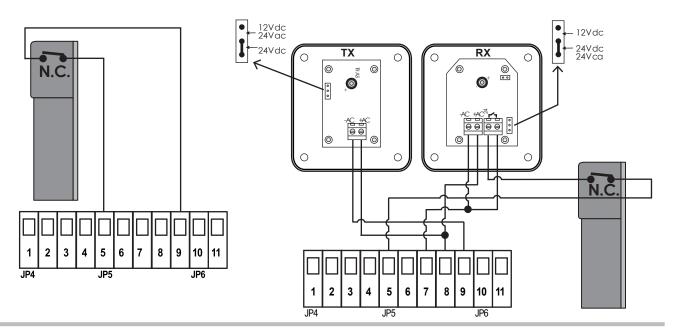
Wire the safety edge to 5-9, terminal JP5.

- If the contact is broken during CLOSING, the gate stops and reverses.
- If the contact is broken during OPENING, the gate keeps on working normally

Mechanical safety edge + photocells in CLOSING

Wire the safety edge and the N.C. contact of the photocell in series.

- If the contact is broken during **CLOSING**, the gate stops and reverses.
- If the contact is broken during OPENING, the gate keeps on working normally



3.7.2 Mechanical safety edge in OPENING Wire the safety edge to 6-9, terminal JP5.

- If the contact is broken during OPENING, the gate stops and reverses after 3 sec.
- If the beam is broken during CLOSING, the gate stops and reverses.

N.B.: Attention!

8

Proceed to set SW2 dip-switch no. 2 = ON.

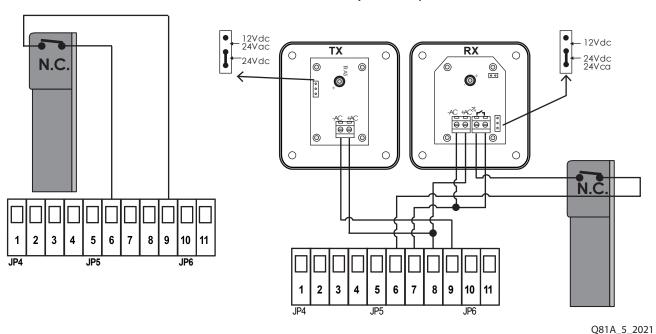
Mechanical safety edge + photocells in OPENING

Wire the safety edge and the N.C. contact of the photocell in series.

- If the beam is broken during **OPENING**, the gate stops until the obstacle is removed and then starts opening again.
- If the beam is broken during CLOSING, the gate stops and reverses.

N.B.: Attention!

Adjust SW2 dip-switch no. 2 = OFF



3.7.3 8K2 resistive safety edge in OPENING

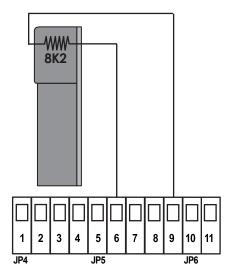
- Adjust SW2 dip-switch no. 2 = ON
- Press **SET** + **SET TX** together and feed the control panel.

Wire the 8K2 safety edge to 6 - 9, terminal JP5.

- If the contact is broken during **OPENING**, the gate stops and reverses after 3 sec.
- If the beam is broken during **CLOSING**, the gate stops and reverses.

8K2 safety edge + photocells in OPENING

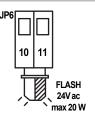
- Adjust SW2 dip-switch no. 2 = ON
- Press **SET** + **SET TX** together and feed the control panel. Wire the safety edge and the N.C. contact of the photocell in series.
- If the contact is broken during **OPENING**, the gate stops and reverses after 3 sec.
- If the beam is broken during CLOSING, the gate stops and reverses.



3.8 FLASHING LIGHT

Wire the flashing light (max 20W) to 10 - 11, terminal JP6.

- QUICK blinking → OPEN
- SLOW blinking → CLOSE
- FIXED light on → PAUSE



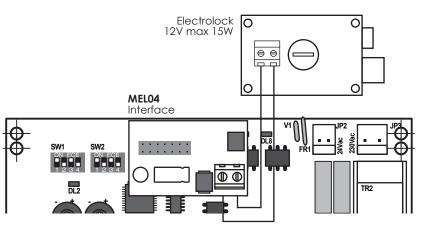
3.9 ELECTROLOCK

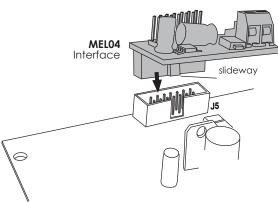


ATTENTION: CUT THE POWER OFF BEFORE PLUGGING THE JACK

Plug the ${\it MEL04}$ interface (optional) onto connector ${\it J5}$, respecting the slot orientation.

Wire the ELECTROLOCK to MELO4.





HOW TO PLUG THE 2nd RADIO CHANNEL INTERFACE

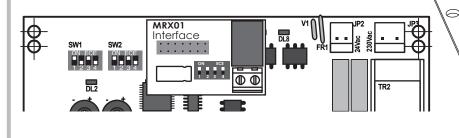


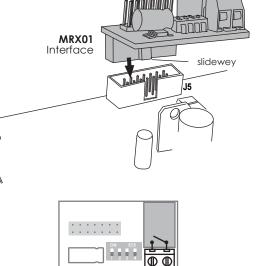
ATTENTION: CUT THE POWER OFF BEFORE PLUGGING THE JACK

Plug the MRX01 jack (optional) onto connector ${\bf J5},$ respecting the slot orientation.



Before setting the dip-switch **SW1**, make sure the power is off.





contact N.O. max 1A - 24V

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3.10.1 Auxiliary radio channel AUX

To use the MRX01 interface as second radio channel, proceed this way:

ATTENTION:

Quite siempre la tensión antes de cambiar la posición de los Dip-switch

MONOSTABLE COMMAND

The contact ACTIVATES when giving a start command by the remote control.

If you wish to choose this function mode, select the switches as follows:

1 = ON

2 = OFF

3 = OFF

4 = NO EFFECT



BISTABLE COMMAND

The contact ACTIVATES or DESACTIVATES every time you press the remote control.

If you wish to choose this function mode, select the switches as follows:

P1 = OFF

2 = ON

3 = OFF

4 = NO EFFECT



TIMED COMMAND

IThe contact ACTIVATES when giving a start command by the remote control and stays for 90 seconds.

If you wish to choose this function mode, select the switches as follows:

1 = ON

2 = ON

3 = OFF

4 = NO EFFECT



3.10.2 Signalling LIGHT

The contact ACTIVATES at OPENING and DESACTIVATES only at FINAL CLOSING POSITION.

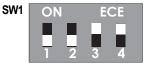
If you wish to choose this function mode, select the switches as follows:

1 = OFF

2 = OFF

3 = ON

4 = NO EFFECT



3.10.3 Courtesy LIGHT

The contact ACTIVATES at OPENING and DESACTIVATES after 90 from complete duty cycle.

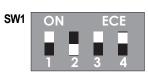
If you wish to choose this function mode, select the switches as follows:

1 = ON

2 = OFF

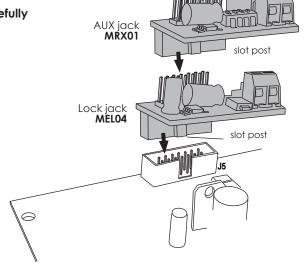
3 = ON

4 = NO EFFECT



Nota:

The control panel can connect a maximum of 2 jacks at once. Plug the jacks one onto the other as shown in the picture, carefully following the slot post.



DEFAULT SETTINGS 4.

LThe control panel is supplied with a **DEFAULT SETTINGS**: working time and delay are set for a standard 90° opening.

To reload the DEFAULT SETTINGS:

- Press BREAK to cut the power OFF and ON
- Turn SENS to the maximum (+) and **POWER** to half position.

BROWSING THE MENU











SET TX







































- As START command
- For SEQUENTIAL PROGRAMMING











TASTO BREAK

Use **BREAK**: To activate and set the AUTOMATIC CLOSING TIME (section 5.1.1)

FUNCTIONS MENU 5.1

5.1.1 AUTOMATIC CLOSING

The **AUTOMATIC CLOSING DEFAULT** is set at 3 sec.

To set the AUTOMATIC CLOSING TIME:

- Press SET for 3 sec. DL1 blinks, release SET.
- Press **BREAK** and release.
- The blinker and led **DL1** light up, the control panel starts the count down.
- Press BREAK again when reached the desired time, the blinker turns off. The time has been set (automatic closing time max. 120 sec.)

To desactivate the AUTOMATIC CLOSING:

- Press **SET** for 3 sec. and release, the led **DL1** blinks.
- Press BREAK and hold for 5 sec., the AUTOMATIC CLOSING has been desactivated

5.1.2 8K2 RESISTIVE SAFETY EDGE INPUT (just in opening)

To activate the 8K2 input as safety in opening press SET + SET TX while turning the control panel on.

6. OPERATION MODE

Choose the operation mode you wish selecting the switches SW1 – SW2. The control panel is supplied with the following default settings:

SW1



SW2



SOFT START
MOTOR TEST
PHOTOCELL TEST

How to read switch position:



1 2 3 4

ON OFF

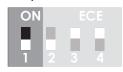
WHITE switch **UPWARD** = Function **ON**



ATTENTION:Turn the power off before setting the switches

SWITCH SW1

dip n° 1



ON

OFF = Double-leaf gate mode



ON = Single-leaf gate mode

OFF

dip n° 2



ON

OFF = Multi-occupation mode DEACTIVATED

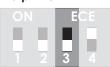


ON = Multi-occupation mode ACTIVATED

OFF

This function gives priority to the first open command. The control unit won't accept additional START commands during OPENING and AUTOMATIC CLOSING COUNT DOWN.

dip n° 3



ON

OFF = Soft start mode DEACTIVATED

At opening motors work at the set thrust (POWER)



ON = Soft start mode ACTIVATED

At opening motors perform at maximum thrust for 1,5 sec., to continue after at the set thrust.

OFF

dip n° 4



ON

OFF = Motor and photocell TEST DEACTIVATED



ON = Motor and photocell TEST ACTIVATED

OFF

SWITCH SW2

dip n° 1



ON

OFF = Ram blow and closing thrust DEACTIVATED



ON = Ram blow and closing thrust ACTIVATED (just for gates with electrolock)

OFF

dip n° 2



ON

OFF = Photocell in OPENING ACTIVATED



ON = Mechanical safety edge ACTIVATED 8K2 resistive safety edge ACTIVATED.

N.B.: It's mandatory to carry out the INPUT TEST

OFF

dip n° 3



ON

OFF = Immediate closing mode DEACTIVATED



ON = Immediate closing mode ACTIVATED

The gate starts CLOSING after 1,5 sec. bypassing the AUTOMATIC CLOSING COUNT DOWN

OFF

dip n° 4



ON

OFF = Ram stroke RELEASE mode DEACTIVATED



ON = Ram stroke RELEASE mode ACTIVATED

At the endpoint stage during CLOSING and OPENING, the motors press onto the mechanical endstop, cut the thrust, and release a small space between the doors for safety operation.

OFF

7. RADIO CODES

The control panel DOESN'T ALLOW TO STORE any remote control if SAFETY DEVICES are DISCONNECTED.

Make sure input no. 2 STOP (DL5), input no. 5 photocell in OPENING (DL7) and input no. 6 photocell in CLOSING (DL8) are connected.

Led OFF = input DEACTIVATED
Led ON = input ACTIVED

Ilf no safety device has been wired, proceed to bridge temporarily the terminal according to chapter 3.6.1.

The control panel has been designed to operate with fixed code or rolling-code remote controls. Choose the remote control you wish to store carefully: once the remote control has been saved and memorized, the control panel shall only recognize that kind of radio code without possibility of reset.

Before starting proceed to delete all existing radio codes.

7.1 DELETING EXISTING RADIO CODES

- Press **SET-TX** and keep pressed for 10 seconds (**DL1** blinks).
- **DL1** turns off. **All codes have been deleted.**

7.2 LOADING A REMOTE CONTROL AS START COMMAND

- Press **SET-TX** once: **DL1** blinks (1 blink stop 1 blink)
- Load within 5 sec. the remote control you wish to store.

The control panel has stored the radio code and goes out the programming automatically. You can store a maximum of 32 different radio codes (Start + Pedestrian + 2° radio channel)

7.3 LOADING A REMOTE CONTROL AS PEDESTRIAN COMMAND

- Press **SET-TX** twice. **DL1** blinks (2 blinks stop 2 blinks)
- Load within 5 sec. the remote control you wish to store.

The control panel has stored the radio code and goes out the programming automatically.

7.4 LOADING A REMOTE CONTROL AS 2° RADIO CHANNEL COMMAND (MRX01 jack)

- Press **SET-TX** three times. **DL2** blinks (3 blinks stop 3 blinks)
- Load within 5 sec. the remote control you wish to store.

The control panel has stored the radio code and goes out the programming automatically.

8. PROGRAMMING

The control panel is supplied with a **SEQUENTIAL PROGRAMMING DEFAULT** (obstacle detection excluded)

8.1 AUTOMATIC mode

8.1.1 AUTOMATIC mode with OBSTACLE DETECTION for double-leaf gates

ATTENTION!:

Before proceeding to programming, start a functional cycle test to proof the motors' thrust. The thrust has to be proper to the gate weight no matters if light or heavy gates.

If adjustments are needed, regulate POWER so that the gate doesn't stop opposing a light contrast pressure.

- Start programming with cool operators.
- The AUTOMATIC MODE PROGRAMMING can only perform if mechanical ground endstops are fitted, in Opening and Closing.
- Gate in CLOSING POSITION.
- **SENS** in half position.
- If during programming the gates stop before reaching the ground endstops, turn SENS (sensitivity) clockwise (to +).
- Press SET and keep pressed for 10 sec., DL1 starts blinking.
- When motors start working release **SET**.
- Motors run firstly a short OPENING for 4 sec., M1 first and M2 after (delayed leaf), then CLOSE until the ground mechanical endstop in closing.
- At this stage the gate performs an OPENING RUN until fully open and a CLOSING RUN until fully close.
- When the procedure is finished, all time settings are saved. The control panel is now ready for normal operation.

ATTENTION!:

Check the proper GATE OPERATION SENSITIVITY.

If adjustments are needed, turn SENS clockwise (to +) and regulate accordingly.

The sensitivity has to be proper in order to prevent uncorrect operation

OBSTACLE DETECTION OPERATION

- If an obstacle is detected in opening, the gate stops and reverses for 10 cm.
- The gate **starts closing automatically after 30 sec.**, and this will be for 3 attempts. If the area still remains unclear the gate stays open.
- If an obstacle is detected during slow down, the gate simply stops.
- If an obstacle is detected in closing, the gate stops and reverses till fully open.
- The gate **starts closing automatically after 30 sec.**, and this will be for 3 attempts. If the area still remains unclear the gate stays open.
- If an obstacle is detected during slow down, the gate simply stops.
- If power cut occurs, **the first START cycle will perform without obstacle detection** just to restore properly the standard operation of the gate.

8.1.2 AUTOMATIC mode with OBSTACLE DETECTION for single-leaf gates

ATTENTION!:

The motor has to be wired to M1 input (orange terminal JP7, blocks 12 - 13 - 14)

- Switch **SW1**, dip no. **1 = ON**.
- Gate in **CLOSING** position.
- **SENS** in half position.
- If during programming the gates stop before reaching the ground endstops, turn **SENS** (sensitivity) clockwise (to +).
- Press SET and keep pressed for 10 sec., DL1 starts blinking.
- When motor starts working release SET.
- Motor runs firstly a short **OPENING** for 4 sec., **M1** first and **M2** after (delayed leaf), then **CLOSE** until the ground mechanical endstop in closing.
- At this stage the gate performs an **OPENING RUN** until fully open and a **CLOSING RUN** until fully close.
- When the procedure is finished, all time settings are saved. The control panel is now ready for normal operation.

ATTENTION!:

Check the proper GATE OPERATION SENSITIVITY.

If adjustments are needed, turn SENS clockwise (to +) and regulate accordingly.

The sensitivity has to be proper in order to prevent uncorrect operation.

8.2.1 SEQUENTIAL mode WITHOUT Obstacle Detection for double-leaf gates

ATTENTION!

Before proceeding to programming, start a functional cycle test to proof the motors' thrust. he thrust has to be proper to the gate weight no matters if light or heavy gates.

If adjustments are needed, regulate POWER so that the gate doesn't stop opposing a light contrast pressure.

- Start programming with cool operators.
- The AUTOMATIC MODE PROGRAMMING can only perform if mechanical ground endstops are fitted, in Opening and Closing.
- **SENS** in maximum position (to +)
- Programming can be carried out both with the remote control or WORK button.
- Press **TEST** for 3 sec., **DL1** starts blinking, release.
- Press the button of the remote control previously loaded. M1 motor STARTS OPENING.
- At 80% of opening press the remote control to start SLOW DOWN.
- When fully open let the motor run for 3/4 sec., then press the remote control again.
- Now M1 settings are LOADED.
- Press the remote control, the control panel starts counting the DELAY TIME in opening (max. 20 sec.)
- Press the remote control again to set the desired delay time (standard operation 2/3 sec.)
- Now the DELAY TIME in opening is loaded. M2 motor STARTS OPENING.
- At 80% of opening press the remote control to start SLOW DOWN.
- When fully open let the motor run for 3/4 sec., then press the remote control.
- Now M2 settings are LOADED.
- Press the remote control, **M2 motor STARTS CLOSING**.
- Press the remote control, the control panel starts counting the **DELAY TIME in closing** (max. 20 sec.)
- Press the remote control again to set the desired delay time (standard operation 2/3 sec.)
- Now M1 motor starts automatically closing.
- Let gates complete the closing run.
- When the procedure is finished, all time settings are saved.
 The control panel is now ready for normal operation

Check the good operation of the gate. If time settings need to be adjusted go back to programming and repeat the whole programming procedure.

8.2.2 SEQUENTIAL mode WITHOUT Obstacle Detection for single-leaf gates

- **SENS** in maximum position (to +)
- Programming can be carried out both with the remote control or WORK button.
- Press **TEST** for 3 sec., **DL1** starts blinking, release.
- Press the button of the remote control previously loaded. M1 motor STARTS OPENING.
- At 80% of opening press the remote control to start SLOW DOWN.
- When fully open let the motor run for 3/4 sec., then press the remote control again.
- Now M1 settings are LOADED and the motor starts CLOSING.
- Let gate completes the closing run.
- When the procedure is finished, all time settings are saved. The control panel is now ready for normal operation

Check the good operation of the gate.

If time settings need to be adjusted go back to programming and repeat the whole programming procedure.

9. TROUBLE SHOOTING - ERROR MESSAGES

The control panel is designed to display errors through a LED lighting system. Here below the trouble shooting table.

Led	ERROR	POSSIBLE CAUSE	SOLUTION
DL1 + blinker	2 blinks stop 2 blinks	• Photocell test	Check the wiring and operation of the photocell.
	3 blinks stop 3 blinks	• Motor test	Check the wiring and operation of the motors.
	OFF	Power supply disconnected	Check the connection to the power supply
DL4	ON	Permanent START command	Check the operation of the ACCESSORIES wired to the START (N.O. contact)
DL5	OFF	STOP button disconnected	Check the wiring otherwise (see section 3.5)
		Incorrect electric wiring	Check the wiring diagram (see section 3.5)
DL7	OFF	Photocell in closing non-aligned	Check the photocell alignment
		Obstacle detected between the photocells	Check and remove the obstacle
		Incorrect electric wiring	Check the wiring diagram
		Disconnected photocell	Check the power connection
		Disconnected photocell, active input	Disable the photocell input (see section 3.6)
DL8	OFF	Photocell in opening non-aligned	Check the photocell alignment
		Obstacle detected between the photocells	Check and remove the obstacle
		Incorrect electric wiring	Check the wiring diagram
		Disconnected photocell	Check the power connection
DL6	ON	Permanent PEDESTRIAN command	Check the operation of the ACCESSORIES wired to the PEDESTRIAN START (N.O. contact)

Il nostro Servizio Assistenza è a tua disposizione per qualsiasi chiarimento sul prodotto, sull'installazione o sulla garanzia: dal Lunedì al Venerdi, dalle 8.30 alle 12.00 e dalle 13.30 alle 17.00







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