



User's Manual

EASY-ROLL

Important safety instructions for installation



Disconnect the power supply whenever you proceed to the installation or repair of the control panel.

- The panel must be installed while the power is disconnected.
- Before installing the panel, remove all unnecessary ropes or chains and disable any equipment such as locks that is not necessary for the automatic operation.
- Before installing the panel, check that the door is in good mechanical condition, correctly balanced and that it opens and closes correctly.
- Install the manual unlocking device at a height lower than 1.8m.
- Install any permanent control next to the door away from any moving part and at a minimum height of 1.5m.
- For permanently connected equipment, an easily accessible power disconnection device must be incorporated into the wiring. It is recommended that this be of the emergency switch type.
- If the control panel is supplied without emergency stop button, this will be incorporated in the installation, connecting it to the STOP terminal.
- For correct use of the security edge, this must never be activated when the door is fully closed. It is wise to install the ends of run before activating the edge.
- This equipment can only be handled by a specialist fitter, by maintenance staff or by a suitably trained operator.
- To connect the power supply and motor wiring, 2.5 mm² section terminals must be used.
- Use protective goggles when handling the equipment.
- Fuses must only be handled when the appliance is disconnected from the mains.
- The instructions for using this equipment must remain in the possession of the user.
- European door normative EN 12453 and EN 12445 specify the following minimum protection and door safety levels:
 - for single-family dwellings, prevent the door from making contact with any object or limit the force of contact (e.g. safety band), and in the case of automatic closing, it is necessary to complement this with a presence detector (e.g. photocell).
 - for communal and public installations, prevent the door from making contact with any object or limit the force of contact (e.g. safety band), and complement this with a presence detector (e.g. Photocell).

Important safety instructions for use

- Do not allow children to play with the door controls.
- Keep the remote controls out of the reach of children.
- Watch the door movement and keep people away until the door is fully open or closed.
- Precaution when operating the manual unlocking device, as the door may suddenly fall due to the bad condition of the springs or door unbalance. Details on how to use the manual unlocking device must be provided by the manufacturer or the device installer.
- Examine the installation frequently, especially the cables, springs and supports, to detect signs of wear, damage or unbalance. Do not use the door if repair work or adjustments are required, as this may cause damage.

Use of the equipment

Designed for automation of garage doors, in accordance with the general description. Not guaranteed for other uses. The manufacturer reserves the right to alter equipment specifications without prior notification.

Technical Data

Receiver characteristics

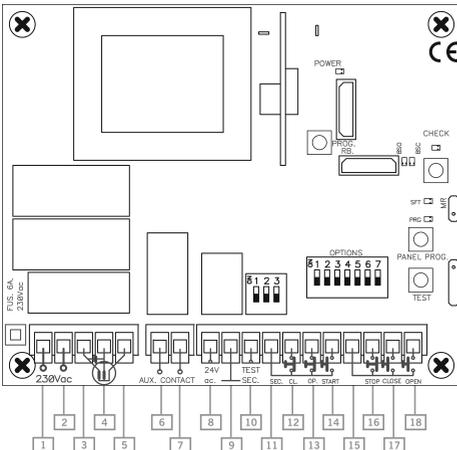
Parameter	Value
Frequency	868,35 MHz
Codification	High security rolling code
Memory	15 codes

Panel characteristics

Parameter	Value
Power supply	230Vac ±10%
Maximum motor power	0.75CV
Standby / operating consumption	23mA / 43mA
Motor fuses	6A
Inputs	Start/stop, security contacts, stop, open and close buttons
Outputs	Auxiliary contact, 24Vac and autotest outlets
Handling time	1 second - 45 seconds
Op. temperature	-20 °C to + 55 °C
Airtightness	IP54 (with IP65 packing seal)
Box dimensions	140 x 220 x 55 mm

RadioBand characteristics

Parameter	Value
Frequency	868.90MHz
Memory	6 RADIOBAND/T
Range (guaranteed)	10 metres



- 1/2 Power supply 230Vac
- 3/4 Motor
- 5 Common motor
- 6 Auxiliary contact outlet
- 7 Auxiliary contact outlet
- 8 24Vac outlet
- 9 24Vac common outlet
- 10 24Vac autotest outlet (TEST SEC.)
- 11 Common start/stop and security contacts
- 12 Security close contact (NC) (SEC.CL.)
- 13 Security open contact (NC) (SEC.OP.)
- 14 Start/stop button (NO) (START)
- 15 Common push-buttons
- 16 Stop button (NC) (STOP)
- 17 Close button (NO) (CLOSE)
- 18 Open button (NO) (OPEN)

GENERAL DESCRIPTION

Control panel with built-in receiver and Radioband system for axis centre motors and automatisms for roller doors and shutters. For three types of operations: automatic operations, semi-automatic operations and “dead man” operations (with radio buttons). Allows for 15 transmitters to be memorised.

It is fitted with one inlet for the start/stop button and one for the two security edges and an output for photocell supply and one for autotesting.

Programming the independent opening and closing times.

INSTALLATION AND CONNECTIONS

Fit the rear of the box to the wall using the rawplugs and screws supplied. Pass the cables through the bottom of the equipment. Connect the power supply cables to the terminals on the printed circuit, following the indications engraved on the board. Fit the front of the equipment to the rear using the screws supplied.

If the door does not open when the button is first pushed, invert the motor cables.



OPERATION

Start (START)	Contact normally open to open and close. The first press opens, the second press stops (until the limit switch) and the third closes.
Stop (STOP)	Contact normally closed. This detains the operation on standby for a new order. Where not used, turn option 3 (STOP) on the input switch to ON.
OPEN	Contact normally open to open. If it is pressed while the door is closing, it will stop and open.
CLOSE	Contact normally open to close. If it is pressed while the door is closing, it will not be triggered.
Security contact (SEC.CL. / SEC.OP.)	Contact normally closed, photocell or magnetic detector type. This acts on opening and closing, causing stoppage and inversion. Where not used, turn option 1 or 2 on the input switch to ON.
Auto-test outlet (TEST SEC.)	24 Vac outlet for auto-test of security parts.
24 Vac outlet	To power any equipment at a voltage of 24 Vac with a maximum consumption of 100 mA.
Auxiliary contact outlet	Voltage-free contact to activate garage light, for example (maximum 10 A).
Safety edge	On opening it causes stoppage and inversion of 2 s and on closure causes stoppage and complete movement inversion.

Power: When the panel is switched on, the green pilot light indicates the correct power supply to the equipment.



1- Automatic operation

Using buttons, radio transmitters or radio buttons

Turn option 6 (AUTOCLOSE) on the option switch to ON.

Connect a NO start/stop button on the terminals marked START. This button carries out two functions: start and stop.

Depending on the version, it is possible to use the terminals indicated as OPEN, CLOSE and STOP to make the movement.

If option 5 on the option switch is turned to ON, the motor starts when the button is pressed for the first time. It stops when pressed for the second time and it closes when pressed for the third time if the end of the opening time is complete. If not, it continues to open.

2- Semi-automatic operation (default option)

Using buttons, radio transmitters or radio buttons

Turn option 6 (AUTOCLOSE) on the option switch to OFF.

Connect a NO start/stop button on the terminals marked START. This button carries out two functions: start and stop.

Depending on the version, it is possible to use the terminals indicated as OPEN, CLOSE and STOP to make the movement.

If option 5 on the option switch is turned to ON, the motor starts when the button is pressed for the first time. It stops when pressed for the second time and it closes when pressed for the third time if the end of the opening time is complete. If not, it continues to open.

3- Open/close dead man operating

Turn options 1 and 2 on the option switch to ON.

Using pushbuttons

Connect two pushbuttons. One on the OPEN terminal that will operate as a dead man button in opening, and the other on the CLOSE terminal that will operate as a dead man button in closing.

By radio

Radio dead-man operations are only possible using the radio button or the radio key switch, previously programmed on the equipment. It is not possible with transmitters.

4- Semi-automatic operating in opening and dead man operating in closing

Turn option 2 on the option switch to ON.

Using pushbuttons

Connect two pushbuttons. One on the OPEN or START terminal that will operate as a start button in opening, and the other on the CLOSE terminal that will operate as a dead man button in closing.

By radio

Radio dead-man operations are only possible using the radio button or the radio key switch, previously programmed on the equipment. It is not possible with transmitters.

In automatic or semi-automatic mode, dead-man operations can be forced using the OPEN, CLOSE and/or radio buttons. During this operating mode, the panel will take no enabled securities into account.



Time programming

The door must be completely closed before starting time programming.

Press the PANEL PROG button for 1 second to enter programming. The red PRG pilot light will come on and the equipment will emit an acoustic signal.

Use the START or TEST button to programme the run.

When START/TEST is pressed for the first time, the door will act as follows: Opens slightly, closes to the lower stop, opens to the upper stop and stops moving. When START/TEST is pressed for the second time, the panel memorizes the automatic standby time, closes to the lower stop, stops and exits the programming mode (the red pilot light goes out). The opening and closing time will now have been programmed.

Option switch

	ON position	OFF position (default position)
1- DM OP	Dead-man operation: The START button serves as the Open button	Semi-automatic operation
2- DM CL	Dead-man operation: The TEST button on the board serves as the Close button	Semi-automatic operation
3- AUTO-TEST OP	This carries out the auto-test for the security open contact	No auto-test carried out
4- AUTO-TEST CL	This carries out the autot-est for the security open contact	No auto-test carried out
5- OPEN-STOP-OPEN	The panel always opens until the end of the opening time	Alternative operation: open-stop-close-stop
6- AUTO-CLOSE	Automatic closure	Does not close automatically
7- FLASH	Courtesy light acts as the signal with a 1.5 sec. pre-warning during door movement	Courtesy light acts as the garage light for 60 sec. after door movement

Input switch

Option No.	Lower position – OFF	Upper position – ON (default option)
1- SEC.CL	Security Close contact connected	Security Close contact not connected
2- SEC.OP	Security Open contact connected	Security Open contact not connected
3 STOP	Stop button connected	Stop button not connected

Light indicators

POWER	Indicates power
PROG	Indicates programming
SAFETY FIXED	Indicates failure of safety or Radioband element autotest
SAFETY BLINKING	Indicates security edge inhibiting

Lock and end of run detection

The panel includes a function that automatically detects the end of the run or detects when the motor is mechanically blocked, stopping movement in both cases.

In programming mode, this circuit saves on users having to press START/TEST.

In operating mode, the panel protects the motor in the event of becoming blocked.

The function does not replace sensitive edge protection.

Safety edge inhibition

The panel includes a function that automatically inhibits the safety edge for the last 4cm of the run.

Continuous floor and ceiling level correction

The panel includes a continuous floor and ceiling level detection and correction system that operates in operating mode whenever the door has been fully opened or closed from its end positions.

Receiver operation

Upon receiving a code, the equipment checks whether it is in its memory, activating the corresponding relay.

Manual programming

Normal programming

Press the PANEL PROG button for 1 sec. The programming pilot light will come on and the equipment will emit an acoustic signal. The equipment will enter normal programming. Send the code and the channel to be programmed by pressing the transmitter.

Every time a transmitter is programmed, the equipment will issue an acoustic signal for 0.5 sec. After 10 seconds without programming or by pressing the programming button, the equipment will exit programming mode, issuing two 1 sec. acoustic signals. If, on programming a transmitter, the equipment memory is full, it will issue seven 0.5 sec. acoustic signals and exit programming.

By pressing the transmitter channel, opening and closure is activated in automatic operating mode.

Open/close programming

In normal programming, press the PANEL PROG button again and keep it pressed down until the red pilot light flashes and the equipment emits a short acoustic signal. The equipment will now have entered open/close programming. Press the required channel of the transmitter to be programmed. The first channel opens and the second closes (3rd channel opens and 4th channel closes).

Every time a transmitter is programmed, the equipment will issue an acoustic signal for 0.5 sec. After 10 seconds without programming or by pressing the programming button, the equipment will exit programming mode, issuing two 1 sec. acoustic signals. If, on programming a transmitter, the equipment memory is full, it will issue seven 0.5 sec. acoustic signals and exit programming.

Each transmitter channel can be configured independently on the equipment, occupying only one memory position.



Programming by radio

To enter programming, press the first two buttons on a transmitter that has already been registered on the equipment. The equipment will issue a 1 sec. acoustic signal. On pressing any button on the new transmitter, the equipment will issue another 1 sec. acoustic signal to indicate that it has been memorised. The new transmitter will maintain the same channel configuration as the transmitter registered.

After 10 seconds without programming or by quickly pressing the programming button or pressing the first two transmitter buttons, the equipment will exit programming mode, issuing two 1 sec. acoustic signals.

CODE CANCELLATION (TOTAL RESET)

In programming mode, the programming button is held down and the “MR” reset jumper is bridged for 3 secs. The equipment will issue 10 short acoustic warning signals followed by others at a faster pace to indicate that the operation has been successful. The equipment is now in programming mode. The pilot programming light will also follow the acoustic indications by flashing.

After 10 seconds without programming or quickly pressing the programming button, the equipment will exit programming mode, issuing two 1 sec. acoustic signals.

RADIOBAND/RC-RCS OPERATIONS

Use the PROG.RB. programming button to programme the safety edges. Follow the RADIOBAND system instructions.

Regulatory Data

UKCA Declaration of Conformity

JCM TECHNOLOGIES, SAU hereby declares that the product EASY-ROLL complies with the relevant fundamental requirements of the Radio Equipment Regulations 2017, as well as with the Supply of Machinery (Safety) Regulations 2008 whenever its usage is foreseen; and with the RoHS Regulations 2012.

EU Declaration of Conformity

JCM TECHNOLOGIES, SAU hereby declares that the product EASY-ROLL complies with the relevant fundamental requirements of the RED Directive 2014/53/EU, as well as with the Machine Directive 2006/42/EC whenever its usage is foreseen; and with the 2011/65/EU RoHS Directive.

See website www.jcm-tech.com/en/declarations/

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