ELECTRONIC PANEL LRX 2151 (GB)

Mono-phase electronic exchange, for the automation of gates with incorporated receiver.

- Mod. **LG 2151**:   Without radio Receiver
- Mod. **(LRQ 2151)** :   30,875MHz
- Mod. **(LR 2151)** :   306   MHz
- Mod. **(LR 2151/330)** :   330   MHz
- Mod. **(LR 2151/418)** :   418   MHz
- Mod. **LRS 2151**:   433,92 MHz
- Mod. **LRS 2151 SET** : Narrow band   433,92 MHz

( ) This product is destined only for countries in which this use is allowed.

TECHNICAL DATA

- Power supply: 230VAC 50-60Hz 8W Max
- Flashing light output: 230VAC 500W Max
- Motor output: 230VAC 500W Max
- Aux. power output: 24VAC 5W Max
- Radio receiver: refer to type
- Op. transmitters: 12-18 Bit or Rolling Code
- TX max. codes in memory   63 different codes
- Working temperature: -20÷85°C
- Dimension of panel: 110x150x75mm
- Degree of panel protection: (ABS V-0) IP 55

TERMINAL BOARD CONNECTION CN1

  1: 230VAC input.
  2: 230VAC input.
  3: 230VAC flash input.
  4: 230VAC flash input.
  5: Opening 1 motor output.
  6: Common 1 motor output.
  7: Closing 1 motor output.
  8: Opening 2 motor output.
  9: Common 2 motor output.
 10: Closing 2 motor output.

TERMINAL BOARD CONNECTION CN2

  1: 24VAC 5W service feed output.
  2: 24VAC 5W service feed output.
  3: Open-close push button input (NA).
  4: Common GND input.
  5: Safety device input (NC).
  6: Aerial earth input.
  7: Aerial hot pole.

OPERATING CHARACTERISTICS

Selection of Automatic operation or Step by step operation :

The centre in its default setting shows the automatic working function set. To set the step by step function: press the MODE button continuously for 5 seconds, when all the signalling Leds are flashing, the programming is stored. If on the other hand, the memorized function is to be removed, follow the same programming procedure or follow the RESET procedure.

Automatic operation:

By using either the radio control (led CODE on) or the low tension button panel (PUL) to operate the gates, commands will have the following effect: the first command impulse activates the opening mechanism until time expiry of the timing motor or until the gate is fully opened, the second command impulse closes the gate, if a command impulse is received before the activation of the limit switch, the direction of movement of the mechanism will be **reversed** whether engaged in opening or closing operations.

Step by step operation:

By using either the radio control (led CODE on) or the low tension button panel (PUL) to operate the gates, commands will have the following effect: the first command impulse activates the opening mechanism until time expiry of the timing motor or until the gate is fully opened, the second command impulse closes the gate, if a command impulse is received before the activation of the limit switch, the direction of movement of the mechanism will be **halted** whether engaged in opening or closing operations.

Automatic closing

The control board may be set up automatically to close the gates.
The set-up procedure is described under the instruction for setting the delay period.

Safety device

The control board allows for the connection and control of Photocells, Tyre sensors (NC).
Command from these devices are ignored during opening whilst the gate is closing they will reverse the direction of movement.
If not used the terminals must be jumped.

Electronic clutch

The control is equipped with an adjustable electronic clutch, using Trimmer VR1. To adjust, move Trimmer VR1 until the device moves, but can still be blocked by an obstacle (for example, the test can be carried out by blocking the device with the hands).

Functioning of the Flasher

The panel board is powered by an output for the use of a flasher 230VAC. Its function is conditioned by the movement of the motor and the automatic closure that when inserted enables the flash even during a pause.

PROGRAMMING

SEL button: selects the type of function to be memorised, the selection is indicated by a flashing Led.
By repeatedly pressing the button it is possible to choose the desired function. The selection will remain active for 10 seconds indicated by a flashing Led, if no other operations are executed during this period, the control board will return to its previous state.

SET button: programmes the information relative the type of function previously selected with the SEL button.

Led Reference	Led off	Led on
1) CODE	No code	Code activated
2) T. MOT.	Unlimited timing	Programmed delay
3) T. PAUSE	No automatic close	With automatic close
4) RIT. ANTE AP	No wing delay	Programmed delay
5) RIT. ANTE CH	No wing delay	Programmed delay

1) CODE: (Radio control code)
The board allows the memorisation up to 63 radio commands having different codes, which are either fixed or rolling code.

Programming: The transmission code is programmed in the following manner: press the SEL button until the CODE led

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flashes, immediately transmit the pre-selected code with the desired remote control, in the moment in which the led CODE remains accessible, the programming, will be complete. In the case that all 63 codes have been memorised repeating the operation of programming, all the 5 Led will begin to flash very quickly signalling that no further memorisation is possible.

Programming through Radio command:
This procedure, consents to enable the programming, without direct intervention of the SEL task on the panel, but executing the operation at a distance, allows the programming of transmission codes without the having to use the SEL button on the central direct.
The ability of programming is executed in the following manner: send in a continuous manner for max. 10 seconds the codes of the radio command previously memorised, at the same time the panel will enter into programming mode as explained above.

Ability of programming through Radio command:
The panel is furnished by the builder with the radio command disabled, if you wish to enable the function, proceed in the following manner: the panel board is powered by an output of 230VAC, keeping the SELL task pressed, at the same time you will obtain a brief flashing of all the Leeds and the programming will be complete.
If you wish to disable the function previously enabled, repeat the operation or follow the RESET procedure.

Cancellation: All the transmission codes are cancelled in the following manner: press the SEL button until the CODE led flashes, then press the SET button and the CODE Led will be turned off and the cancellation will be completed.

2) T. MOT.: (Programming. the motor operating time max. 4 minutes)
The control unit is factory supplied with a working time motor predefined equal to 30 sec.
If a reprogramming of the motor operating time is needed, it must be effected through the closed frame in the following manner: set the SEL button on the T. MOT. flashing led, then continuously press the SET button, the rolling shutter will start the opening; when you have reached the required height, release the SET button key and at the same time the motor time storage will be completed and the T. MOT. Led will remain lit and fixed. If you want an infinite motor time, using the SEL task when the Led T. MOT. is flashing press for less than 1 second the SET button, at the same time the Led will shut off and the operation will be completed.

3) T. PAUSE: (Maximum programmed automatic wing closing 4 minutes)
The manufacturer furnishes the board with an automatic closure (pause time equal to 15 sec.). If a reprogramming of the automatic closing time is needed, it must be effected in closed frame in the following manner: press the SELL button until the T. PAUSE led flashes, then press and hold down the SET button for a period equal to the desired pause interval between closing and opening operations, at the expiry of the desired time leave the SET button, at the same time the memorisation of automatic closing time will be determined and the Led T. PAUSE will be lit.

If decided not to have the automatic closing, take position on the flash of the Led T. PAUSE after press the SET task for less than a second, at the same time the Led will shut off and the operation will be concluded.

4) DELAY IN WING OPENING: (programmed wing delay 15 sec. max.)
The manufacturer furnishes the panel if chosen the automation of 2 motors with a delay in wing opening equal to 3 seconds (del. MOTOR 2).
If a reprogramming of the delay is needed in relation to its opening, it must be effected during close frame in the following manner: take position on the SEL, task when the led WING DELAY OP. is flashing, then press in continuous manner the SET task for as long as the time desired, release the SET task, at the same time the memorisation of the delay will be determined and the Led DELAY WING OP. will be fixed. If desired not to have a delay in wing opening, take position on the Led DELAY WING OP. then press SET task for less than a second, at the same time the Led will shut off and the operation will conclude.

5) DELAY IN WING CLOSING: (programmed wing delay 15 sec. max.)
The manufacturer furnishes the panel if chosen the automation of 2 motors with a delay in wing closing equal to 3 seconds (del. MOTOR 1).
If a reprogramming of the delay is needed in relation to its closing, it must be effected during close frame in the following manner: take position on the SEL, task when the led WING DELAY CL. is flashing, then press in continuous manner the SET task for as long as the time desired, release the SET task, at the same time the memorisation of the delay will be determined and the Led DELAY WING CL. will be fixed. If desired not to have a delay in wing closing, take position on the Led DELAY WING CL. then press SET task for less than a second, at the same time the Led will shut off and the operation will conclude.

RESET

If it necessary to reset the program board to its default values, that is with no memorised data, press both SEL and SET buttons continuously, all the **RED** LEDs will flash at once.

IMPORTANT NOTICE FOR THE INSTALLER

– *In order for the receiving part of the radio to function correctly, in cases where two or more centres are used, it is advisd to install them at a distance of at least 3 metres from each other.*

– *The centre must not have any type of sectioning mechanism from the electrical line 230 Vac; it is therefore the responsibility of the installer to see the installation of a sectioning device within the plant.*

– *The fixing of the electricity supply cables and their connection, must be guaranteed by means of the assembly of the cable presses which are provided as "optional".*

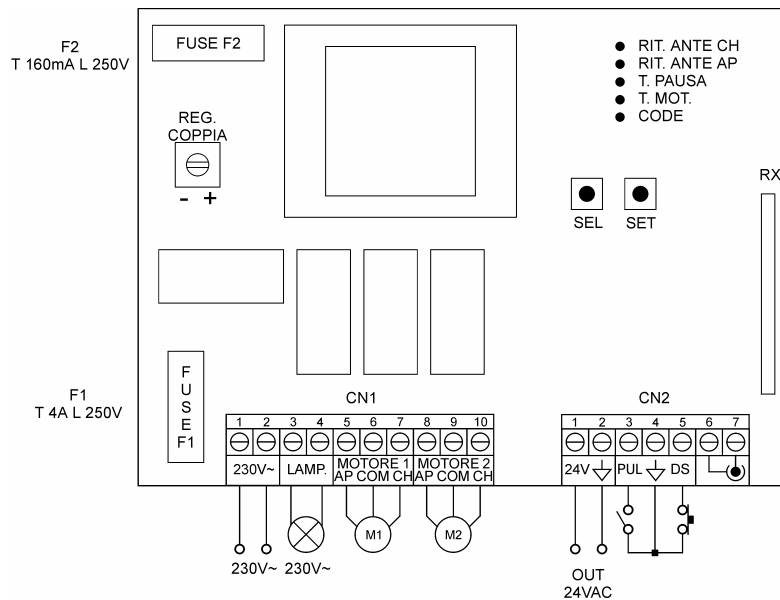– *The input, which is labelled as normally closed (NC), must be jumped if not used!!*

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