ELECTRONIC PANEL LRX 2149

GB

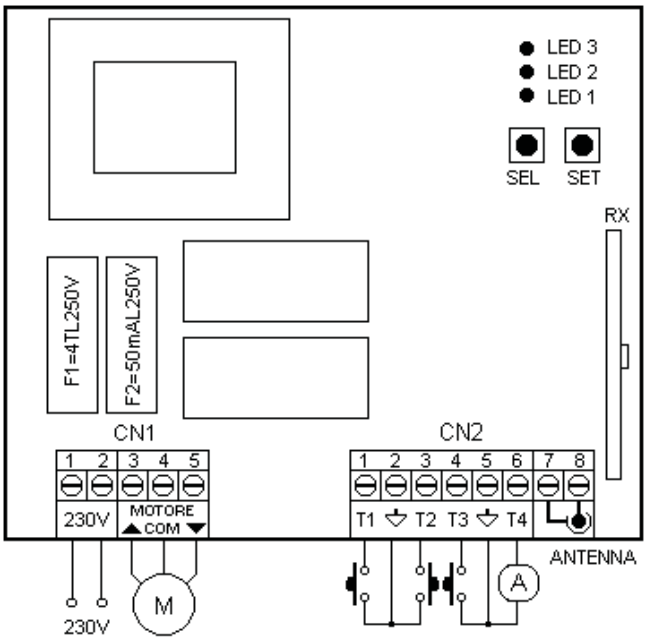
Multi-function electronic programming unit for automated blinds and sun-shades. The unit's dimensions have been reduced.

- Mod. **LG 2149:**	Without radio Receiver	
- Mod. **(LR 2149) :**	306	MHz
- Mod. **(LR 2149/30) :**	330	MHz
- Mod. **(LR 2149/418) :**	418	MHz
- Mod. **LRS 2149 :**	433,92	MHz
- Mod. **LRS 2149 SET :** Narrow band	433,92	MHz
- Mod. **LRH 2149 :** Narrow band	868,3	MHz

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

TECHNICAL DATA

- Power supply:	230V~ 50/60Hz 2,5W
- Motor output:	230V~ 500W Max
- Working temperature:	-20□85°C
- Radio receiver:	refer to type
- Op. transmitters:	12-18 Bit or Rolling Code
- Memorizable TX codes:	31 UP, 31 DOWN or 31 P/P
- Unit dimensions:	110x121x47mm
- Container:	ABS V-0
- Protection capability:	IP 54



CN1 TERMINAL BOARD CONNECTION

1: 230V~ input (Phase).
2: 230V~ input (Neutral).
3: Opening motor output (Up).
4: Common motor output.
5: Closing motor output (Down).

CN2 TERMINAL BOARD CONNECTION

1: T1 push-button input (NA).
2: Common GND Signal input.
3: T2 push-button input, down (NA).
4: T3 push-button input, cyclical (NA).
5: Common GND Signal input.
6: T4 Anemometer input (NA).
7: Aerial earth input.
8: Aerial pole input.

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 advisable to install them at a distance of at least 3 m eters from each other.

- The centre does not have any type of sectioning mechanism, it is therefore the responsibility of the installer to see to 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 in the packaging.

GENERAL OR GROUP CENTRALIZATION

Central control using cable control
The central control by cable of two or more units allows the simultaneous raising or lowering of connected blinds. The link is carried out through a bus of three parallel lines at i nputs T1, T2 and the common GND Signal.

Central control using remote control
The central control by remote control of two or more units allows the simultaneous raising or lowering of the blinds. The central control follows two identical codes from the remote control (the first to raise and the second to lower the blinds) for all units or for a group within 20 metres of the command point, allowing greater control. Therefore it is advisable to take care when selecting the installation location. Performance is not only related to the technical specifications of the device but can also vary according to the radio-electrical conditions at the chosen location.

SETTINGS

1) Step by step (Dip 1 and 2 OFF)
Operation is cyclical when either the button strip or the radio control is used (Start - Stop - Start), if no stop command is give, the control board will stop the mechanism at the end of the programmed motor time.
When the anemometer is connected, the control board sends the command to raise the mechanism each time the wind exceeds the selected trigger threshold.

2) Step by step + Aut. closing (Dip 1 ON and Dip 2 OFF)
The device will follow the same step by step function described in point 1, but with the difference that when the wind velocity is greater than the set speed, the control board gives only one command to raise the mechanism, once the atmospheric disturbance has passed, after an interval of 5 minutes in which the wind velocity is less than the set threshold, the control unit will automatically lower the blind or

shade. This feature is excluded if the command to raise the mechanism is given by both the button strip and the radio control.

3) Person present (Dip 1 OFF and Dip 2 ON)
In this mode the control needs to be kept active to keep the blind motor running. Releasing the control will stop the motor.

4) Anemometer Test (Dip 1 and 2 ON)
The correct operation of the Anemometer can be verified at installation as follows: connect the anemometer to the terminal board, manually turn the anemometer, and simultaneously the control board will send the command for the mechanism to raise for a period of 5 seconds.

PROGRAMMING BUTTONS AND LED SIGNALS

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 15 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: programs the information relative to the type of function previously selected by the SEL button.

Led signals
Led on: memorised function.
Led off: non memorised function.
Led flashing: selected function.

Selectable functions

LED REF:	LED OFF	LED ON
1) LED 1	No code	Tx code stored
2) LED 2	Motor speed at max (2 min.)	Motor speed stored
3) LED 3	Wind security for 25 Km/h	Wind security stored

1) LED 1
Functions with one or two remote control commands
It is possible to memorise one or two remote control commands during the programming stage. One code can be used for a cyclical function (raising/lowering), whilst two different codes allows different commands, the first for raising and the second for lowering.
Programming
The transmission code is programmed in the following manner: press the SEL button until the LED 1 flashes, immediately transmit the pre-selected code with the desired remote control, as soon as the LED 1 begins to flash rapidly send the second code to be memorised, when the LED 1 remains lit, the programming is complete. If the second code is not sent within 10 seconds the control unit will exit the programming phase and select the function with only one code of the remote control. When 31 codes have been stored all three LEDs will flash, indicating that no other codes can be stored.
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 To cancel all stored codes press the SEL button and LED1 will start to flash. Then press the SET button. The procedure is now complete and LED1 will stop flashing.

2) LED 2
Programming the motor operating time
The control unit is factory supplied with a motor time of two minutes (LED2 OFF).
To program the motor time, close the rolling gate and proceed as follows: Set the SEL button on the flashing LED2, 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 LED2 will remain lit and fixed.
Using an automated device with an incorporated stroke end, we advise you to set a motor time of a few seconds more when the rolling shutter has reached its end of stroke.
If you want an infinite motor time, carry out the same storage procedure, keeping the SET button continuously pressed, less two seconds. After two seconds the LED2 will remain lit and fixed, and the infinite motor time will be stored. Repeat the whole operation in the case of error.

3) LED 3
Displaying wind threshold programs
To display the wind threshold selections use the SEL button to select LED3. The LED will flash twice to show the memorized wind threshold. Every double flash indicates an increase of 5 km/h. For example, five flashes equals 25 km/h.
Wind security threshold from 5 to 40 km/h
The unit has an intervention threshold for wind security at 25 km/h (LED3 OFF).
To program the wind security threshold use the SEL button to select LED3, then press SET to start the programming process. LED3 with start to flash twice. Every double flash indicates and increase of 5 km/h. Press SET when the desired threshold has been reached. The selection will be stored and LED3 will remain lit.
NOTE: five double flashes of LED3 equals 25 km/h.
If a mistake is made during the programming process the above steps can be repeated.

RESET

To reset the unit to its factory settings, press SEL and SET at the same time to light all the LEDs, which will then go out when the reset is complete.

DECLARATION OF CONFORMITY

The products: **Electronic E x-change**

LG 2149 – LRS 2149 – LRS 2149 SET

are conformant to all of the requirements laid out in the EC directive number: 99/5 which are based on the following standards:

- EN 301 489-1/3; - EN 300 220-1/3 ; - EN 60730-1.

The samples which have been tested meet essential requirements which have been specified above, on the basis of the results of the tests.

CE