

# KAUBER IR (infra-red receiver)



## OPERATING MANUAL

### KAUBER IR – infra-red receiver

The KAUBER IR module is a self-learning infra-red remote receiver equipped with a manual control input port. It is compatible with the majority of commercial IR remotes (does not require the user to buy an extra remote control unit). The IR receiver can be used to control screens, lifts, blinds, etc.

#### Description:

The module can be controlled with the majority of commercially available IR remotes for audio-visual equipment (TV, DVD/BluRay players, projectors, etc.) using a 36 kHz carrier wave. The module shall be programmed (matched) with the remote control unit.

Additionally, the module allows control via a manual switch panel.

After a correct program matching of the remote, which means selecting and defining the functional buttons on the remote control unit::

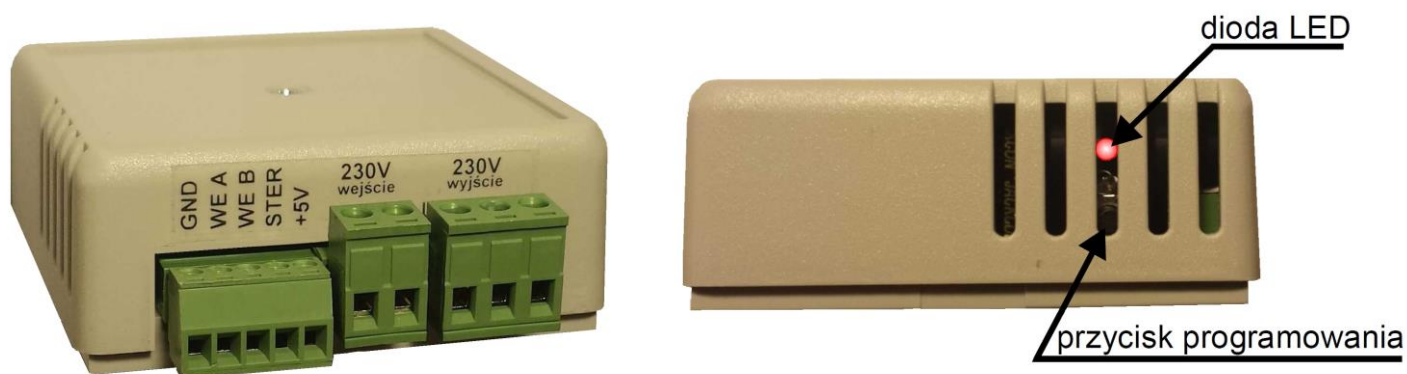
**Unwinding (DOWN)** – i.e. the „Volume -” button

**Stop (STOP)** – i.e. the „Stop” button

**Winding (UP)** – i.e. the „Volume +” button

the user may effectively control the screen/lift. The module also allows programming of the screen/lift winding/unwinding time.

At any time, the user may control the screen/lift with a switch panel. Pushing one of the control buttons causes winding/unwinding of the screen/lift until depressed. In that time, the module is not reacting to other control commands.



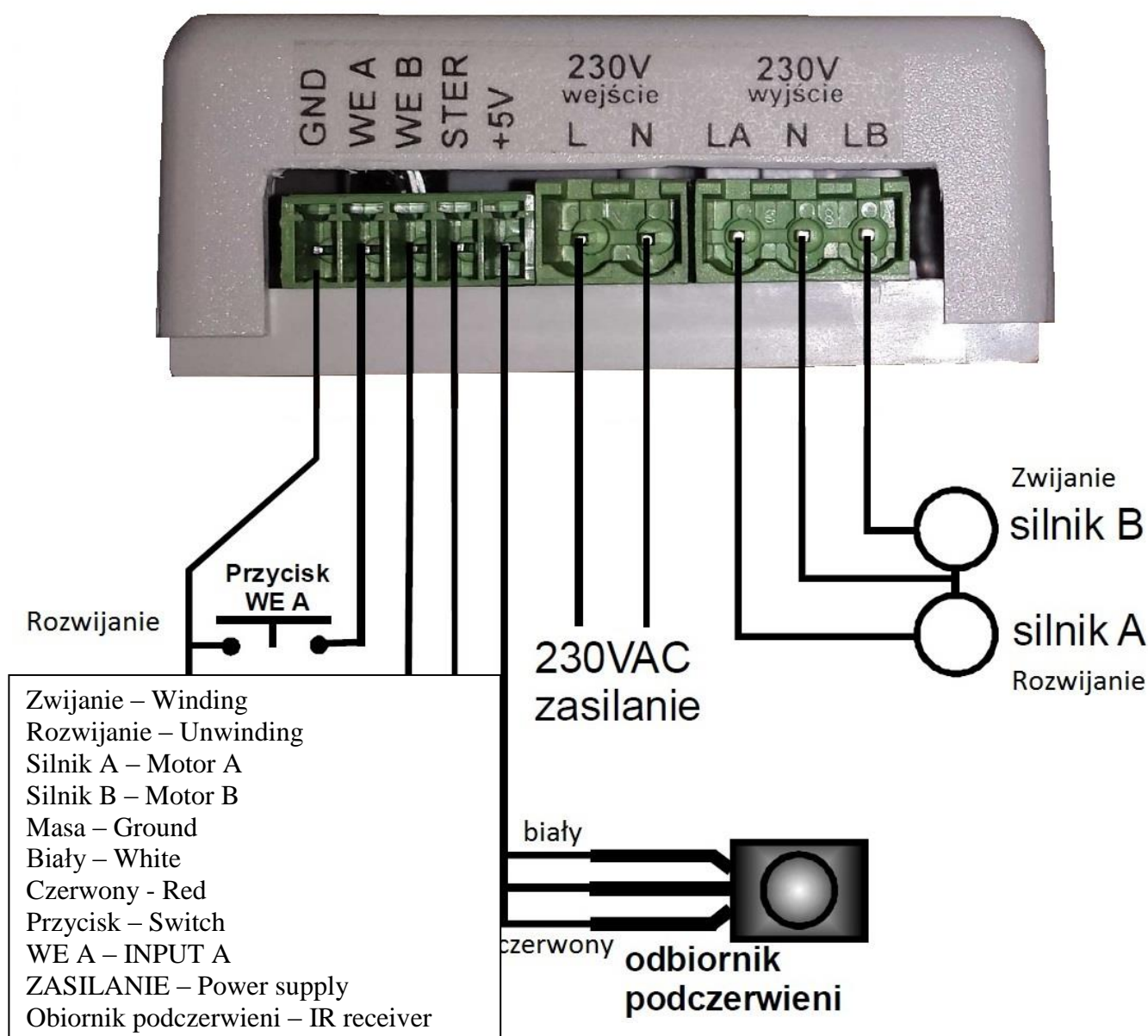
Dioda LED – LED

Przycisk programowania – Program setting switch

## Wiring diagram:

### NOTE!!!

Only certified electricians shall be allowed to make the electrical connections of the module. Before powering the device, make sure all the wires have been connected in compliance with the wiring diagram.



Start installation of the module by wiring the motor of the screen/lift drive to the module.

Proceed with wiring the motor connections in the following sequence:

- 1) Neutral wire (**blue**) to the **N (COM)** pin
- 2) Hot wire (**black** – for type A)\* to the **LA** pin – after pressing the “UNWINDING” button on the remote control, a supply voltage of 230 V AC will be fed to the **LA** terminal for a time set during configuration of the module
- 3) Hot wire (**brown** – for type A)\* to the **LB** pin – after pressing the “WINDING” button on the remote control, a supply voltage of 230 V AC will be fed to the **LB** terminal for a time set during configuration of the module.

### NOTE!!!

\* check wire colors responsible for winding and unwinding the screen/lift.  
The description above applies to KAUBER screens fitted with the A type motor.

The next step is the connection of the IR receiver module:

- 1) Connect the **GND** pin to the grounding wire of the IR receiver cable (naked wire)
- 2) Connect the **+5V** input to the IR receiver cable hot wire (red)
- 3) Connect the **CONTR/STER** input to the signal wire of the IR receiver cable (white)

Then, wire the control switch panel (*optional*):

- 1) Connect the **GND** input to the common wire of the switch panel (central)
- 2) Connect the **WEA** (INPUT A) input to the DOWN (unwinding) switch of the panel
- 3) Connect the **WEB** (INPUT B) input to the UP (winding) switch of the panel

Pushing one of the control panel buttons results in winding or unwinding of the screen/lift until depressed. During that time, the controller is not reacting to other commands.

The last connection is the power supply of the controller (**Note! The wire shall not be live during the connection!!!**)

- 1) Neutral line (blue) shall be connected to the **N connector**
- 2) Hot line (brown or black) shall be connected to the **L connector**.

Correct connection and compliance with the wiring diagram are confirmed by two short blinks of the power supply LED (upon powering the device).

## Programming:

### Programming the “Down” – unwinding button on the remote control unit

Push the module’s programming button once (inside the module). After approximately two (2) seconds, the LED will blink once. Aim the remote control unit at the IR receiver and push the button to be used for channel “A”. After correct scanning (reception) of the code, the LED will blink several times, confirming that the code has been memorized and the module exits the programming mode.

*Cancellation of the programming mode:* press once again the programming button of the module. The LED will blink several times, to confirm exit from the programming mode.

### Programming the “Up” – winding button on the remote control unit

Push the module’s programming button twice (inside the module). After approximately two (2) seconds, the LED will blink twice. Aim the remote control unit at the IR receiver and push the button to be used for channel “B”. After correct scanning (reception) of the code, the LED will blink several times, confirming that the code has been memorized and the module exits the programming mode.

*Cancellation of the programming mode:* press once again the programming button of the module. The LED will blink several times, to confirm exit from the programming mode.

### Programming the “Stop” button on the remote control unit

Push the module’s programming button three times (inside the module). After approximately two (2) seconds, the LED will blink three times. Aim the remote control unit at the IR receiver and push the button to be used for stopping channel “A” or “B”. After correct scanning (reception) of the code, the LED will blink several times, confirming that the code has been memorized and the module exits the programming mode.

*Cancellation of the programming mode:* press once again the programming button of the module. The LED will blink several times, to confirm exit from the programming mode.

### Programming the working time for channel A - unwinding

Push the module’s programming button four times. After approximately two (2) seconds, the LED will blink four times. Push the “DOWN” button on the remote control unit. The screen/lift starts unwinding (channel “A” active). After the required time, push “STOP” on the remote control unit. Channel “A” is turned off and the screen/lift stops. The working time of channel “A” (from start to stop) will be memorized. Aim the remote control unit at the IR receiver and push the button to be used for channel “A”. The LED will blink several times, confirming that the time has been memorized and the module exits the programming mode.

*Cancellation of the programming mode:* press once again the programming button of the module. The LED will blink several times, to confirm exit from the programming mode

### Programming the working time for channel B - winding

Push the module's programming button five times. After approximately two (2) seconds, the LED will blink five times. Push the "UP" button on the remote control unit. The screen/lift starts winding (channel "B" active). After the required time, push "STOP" on the remote control unit. Channel "B" is turned off and the screen/lift stops. The working time of channel "B" (from start to stop) will be memorized. Aim the remote control unit at the IR receiver and push the button to be used for channel "B". The LED will blink several times, confirming that the time has been memorized and the module exits the programming mode.

*Cancellation of the programming mode:* press once again the programming button of the module. The LED will blink several times, to confirm exit from the programming mode.

Note: The user may access any of the functions at any time. The user may change one of the module parameters (functions of the remote buttons or channel working times) without going through all the sequential steps of the programming procedure.

### Specifications:

- Power supply
- Maximum current load
- Standby power rating

230V AC

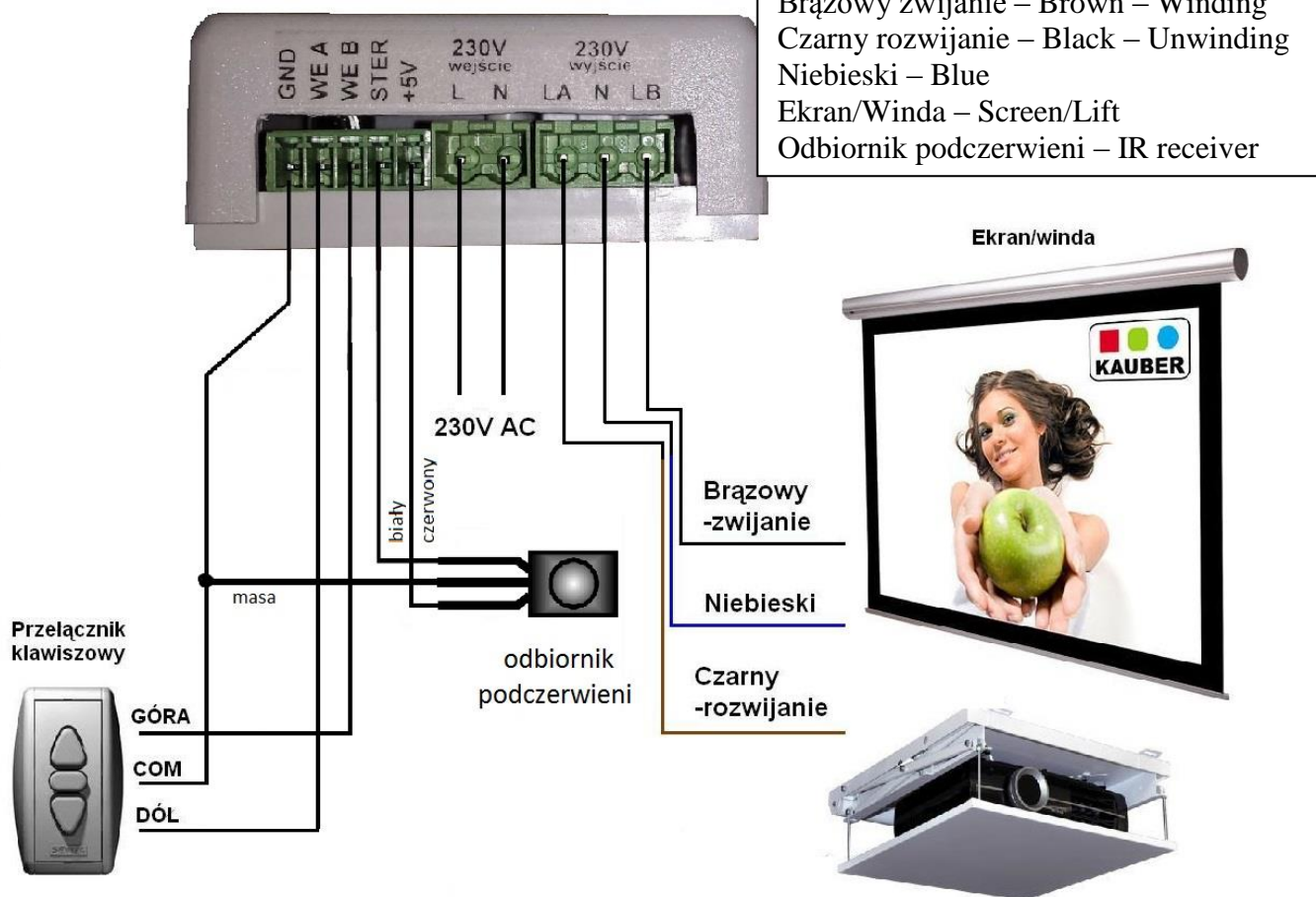
2.5A

0.5VA

Module control options:

- IR remote control unit, using the 36 kHz carrying wave
- Dual switch panel with single pulse mode

### Installation diagram:



Thank you for choosing KAUBER IR  
Feel free to buy other products of the KAUBER brand