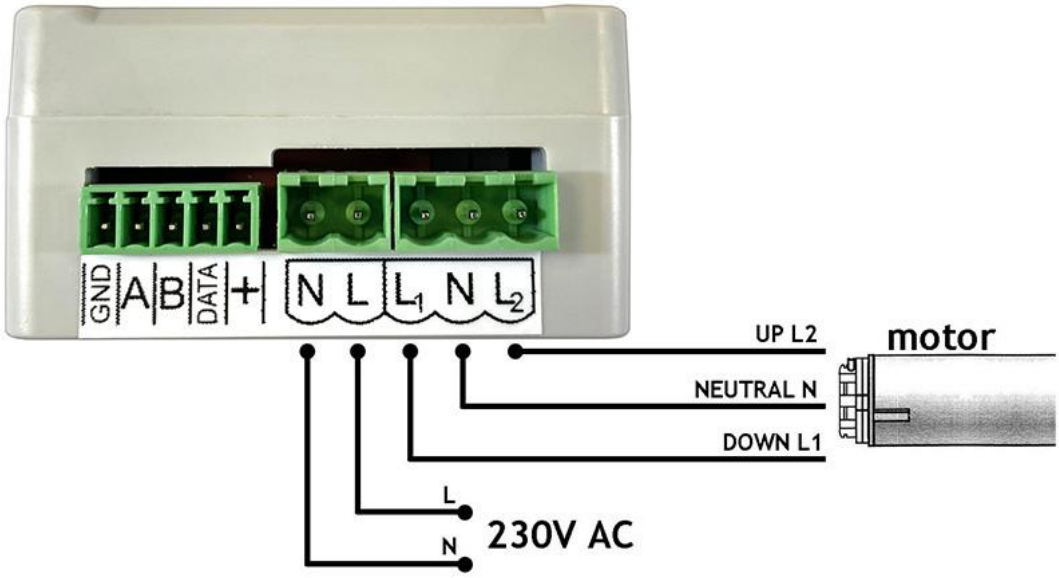
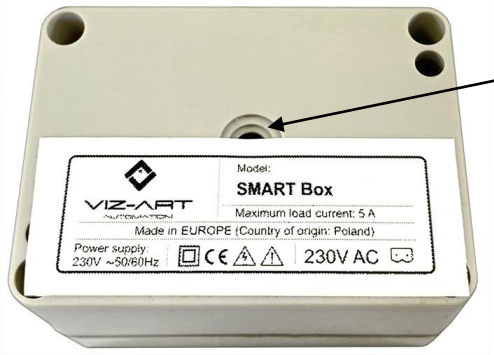
SMART Box 2.0

Device controller

Programming the controller set SMART Box 2.0 consisting of:

- **IR receiver**
- **RS232**
- **Low Voltage Control - TRIGGER 5-30V**
- **Potential Free Control (Dry Contact Control)**



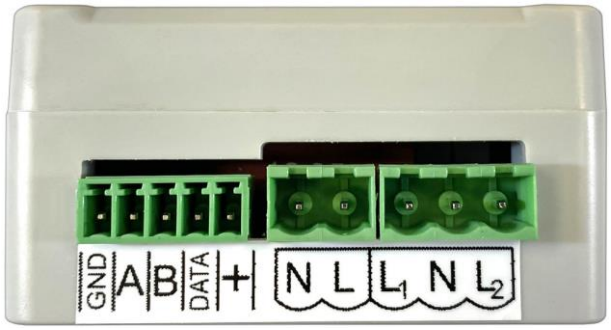


PROGRAMMING BUTTON

Before turning on the power, press and hold the **programming button** and then turn on the power (button still pressed). Count the LED flashes.

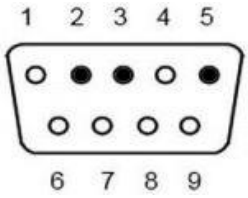
3 flashes: the device will receive signals from the **IR infrared remote control**
6 flashes: the device will receive codes from the **RS232** serial port (logical '1' -5V, logical '0' + 5V)
9 flashes: the device will receive codes from the **UART** serial port (logical '1' + 5V, logical '0' 0V)

CONNECTION DIAGRAM **RS232 control/UART:**



PIN 5 CONNECT TO **GND**

PIN 2, 3 CONNECT TO **DATA**



SOCKET DB9

PROGRAMMING **RS232 control / UART:**

HEXAGONAL CODE:
UP „U” or „ØX55” or „55h”
STOP „S” or „ØX53” or „53h”
DOWN „D” or „ØX44” or „44h”

DECIMAL CODE:
UP „85”
STOP „83”
DOWN „68”

CONNECTION DIAGRAM **IR RECEIVER:**

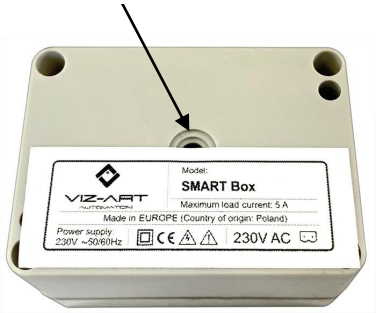
SHIELD OF SHIELDING WIRE
CONNECT TO **GND**

WHITE WIRE
CONNECT TO **DATA**

RED WIRE
CONNECT TO **+**

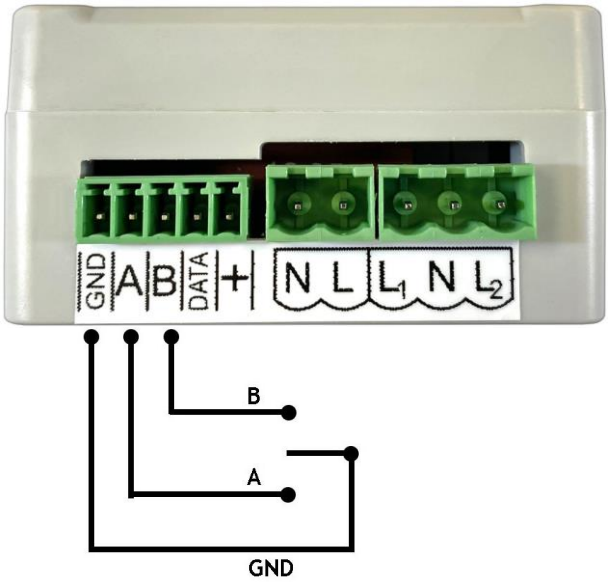
Programming IR infrared remote control code:

PROGRAMMING BUTTON



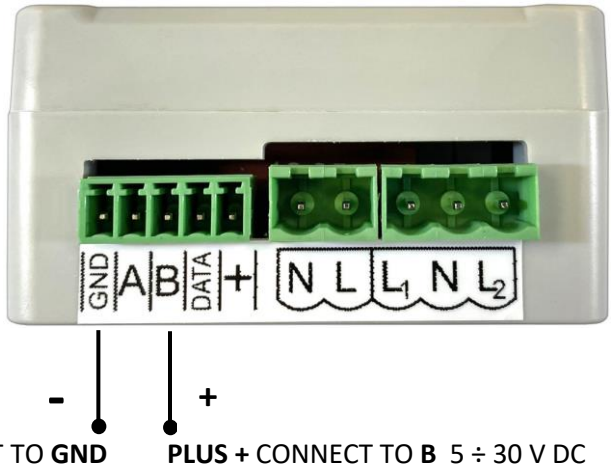
After turning the power on, press shortly the programming button once. The LED diode will light up. It is waiting for the code from the IR remote control switching on the '1' direction.
After receiving the code, the LED diode will blink fast several times and light up again.
SMART Box is waiting for the code from the IR remote control to turn off the directions (code 'STOP').
After receiving the code, the LED diode will blink fast several times and light up again.
SMART Box is waiting for the code from the IR remote control switching on the '2' direction. After receiving the code, the LED diode will blink fast several times and turn off.
This is the end of programming.

CONNECTION DIAGRAM **POTENTIAL FREE CONTROL:**



GND CONNECT TO **A** or **GND** CONNECT TO **B**

CONNECTION DIAGRAM **LOW VOLTAGE CONTROL TRIGGER 5-30V:**



MINUS – CONNECT TO **GND** **PLUS +** CONNECT TO **B** 5 ÷ 30 V DC

Producer: VIZ-ART Automation
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SAFETY INFORMATION CAUTION

To ensure safety of the personnel, make sure to follow the guidelines provided in this instruction manual. Keep the instruction manual for future reference.

- Do not allow children to play with the device controller (switch or remote control).
- Do not leave device controllers within the reach of children.
- Inspect the equipment assembly periodically to identify and repair any damages.
- If any damages are identified, do not use the equipment until the necessary repairs are made.
- Keep appropriate distance from the equipment during operation. In case of a failure, the equipment may constitute a risk of injury or wounds.
- Do not install any items other than those specified in the equipment instruction manual. All installation and mounting works should be done by an engineer with appropriate licenses.
- Inappropriate mounting may damage the product or cause injury.
- Use only elements compliant with the mounting instructions.
- It is prohibited to perform any steps that may damage the power supply cord or plug.
- Do not modify the power cord, i.e. do not make any structural modifications, do not place the cord in immediate vicinity of hot objects, do not bend or twist the cord, do not pull the cord, do not place any heavy objects on the cord, and do not coil the power cord.
- Using the equipment with a damaged power cord may cause electrocution or shorting of the circuits and fire.
- Do not touch the power cord or plug with wet hands.
- Always follow the guidelines provided in this instruction manual and in the equipment mounting instructions.
- Before installing the equipment, make sure it is complete, free of defects, compliant with your order, and has not sustained damage in transport.

INSTALLATION GUIDELINES

- The equipment should be installed by a qualified engineer, in accordance with the guidelines provided in the mounting instructions. Electrical connections should be made by a specialist with an appropriate license.
- Install the equipment using screws and mounting elements appropriate for the conditions of the installation, to which the lift is mounted, and stable, original auxiliary elements, dedicated for the specific lift model.
- After mounting the equipment, before first use, check if it is mounted as per the instructions, and level. If the equipment is not level, adjust the mounting. Do not use equipment that is not properly installed.
- Do not modify or unscrew elements of the equipment, as this may cause a risk of permanent damage to the equipment and/or the safety of the users.

WARRANTY CONDITIONS

The warranty period for the device is 24 months from the date of purchase indicated on the original receipt.
1) The warranty period for the device's electric drive is 60 months.
2) The warrantor commits to fix free of charge damage suffered by a device delivered to the service point that demonstrates defects resulting from defects in workmanship or materials, which become noticeable during the warranty period.
3) The warranty does not cover:
   a) damage caused by use of the device in a manner other than that described in the user manual,
   b) damage caused by improper storage or transport,
   c) mechanical damage,
   d) abrupt changes in electrical grid voltage,
   e) disassembly and reassembly,
4) Defects will be removed within 14 days from the date the device is ac-cepted on warranty at a service point.
5) Service point address

Manufactured after 13.08.2005.
Do not dispose of used electrical and electronic equipment together with municipal waste, due to the presence of substances hazardous to the environment in the equipment. Such devices should be delivered to a collection point for recycling. Information on collection points is available from local government authorities or in stores.

DECLARATION OF CONFORMITY

VIZ-ART AUTOMATION

I hereby declare, with sole responsibility, that the products:
TRIGGER 5-30V DC ; TRIGGER 230V AC (RF); remote control VIZMOTE1;
remote control VIZMOTE2; Radio Receiver RF; SMART BOX; SMART BOX 2.0; EXTEND IR

they comply with the following main requirements:

1999/5/EC Radiocommunication Equipment Directive (R&TTE),
2004/108/EC Electromagnetic Compliance Directive (EMC),
2006/95/EC Low Voltage Equipment Directive (LVD),

and in particular with the following harmonized standards:

EN 60950-1:2006, safety of use,
EN 61000-6-1:2007 EMC, general requirements,
EN 61000-6-3:2007 EMC, general requirements,
EN 301 489-1 V1.8.1 (2008-04) EMC, radio equipment,
EN 301 489-3 V1.4.1 (2002-08) EMC, short range devices,
EN 300 220-1 V2.3.1 (2010-02), EMC, radio requirements (ERM)
and are marked with **CE**