

## 3423 | Automation for 1 230 VAC roller shutter / sliding gate motor

### GENERAL INFORMATION

The automation board is designed to control sliding gate roller shutter with 230VAC motor. It is intended for use in domestic and professional installations and must be installed by people with basic technical knowledge of electricity and automation.

The device is an automation component and not a complete machine. **The final installation of the door must meet the safety requirements applicable to the door itself.**

### IMPORTANT SAFETY INFORMATION

- The product must be used and installed in installations in accordance with its design
- Save these instructions for future reference
- Ensure that there is proper grounding
- Before proceeding with any wiring or programming, turn off the power supply
- It is necessary to use a 6A/30mA differential leakage relay to power the equipment
- Do not change or modify the automation materials without first contacting Profelmnet
- Do not allow children or pets to be near the door when it is in operation
- Keep the automation controls away from children to avoid unintentional operation of the door
- Installation, maintenance or repair of the automation should be carried out by qualified personnel
- It is necessary to install a safety contact for pedestrian safety
- Profelmnet as a manufacturer reserves the right to make changes to the product without notice
- Anything not listed in the above instructions is not recommended
- Installation must be carried out with the power supply disconnected.
- The device must only be used with active safety devices (e.g. photocells or safety contact) to ensure safe operation of the door.
- After installation, a complete door travel check must be carried out.
- Do not operate the door in the presence of people, animals or objects in its path.
- Before use, the installer must confirm that the door moves freely and without mechanical resistance.

### TECHNICAL FEATURES

- Operating voltage: 230VAC 50Hz
- Motor output: 230VAC
- Accessory output: 12-24VAC/DC
- Operating temperature: -20°C to +60°C
- Remote control receiver: Rolling code or Fixed code, depending on model

### MANDATORY USE OF PHOTOCELLS

For safe operation of the door, the installation of photocells is mandatory in every new automation installation. Operation of the door without active safety means makes it non-compliant with the safety requirements of EN 12453.

The door must not be operated without an active photocell.

In case the photocells are not connected or do not work, the system must only be used in manual mode.

### CHECKING CORRECT OPERATION (Test Procedure)

After installation:

1. Check that the door moves without jamming.
2. Check the correct operation of the photocells.
3. Check the limit switches.
4. Perform 5 complete opening/closing cycles.
5. Make sure that the manual release works correctly.

### INSTALLATION RESPONSIBILITY

Profelmnet is not responsible for the final installation of the door, nor for any improper or incomplete use of the product.

The correct installation and adjustment of the safety devices (photocell, safety contact, motor power settings) is the responsibility of the installer or the individual completing the installation.

The operation of the door without installed safety devices is prohibited and may cause a risk of injury or damage.

Profelmnet only provides the automation equipment and is not a manufacturer of the final door.

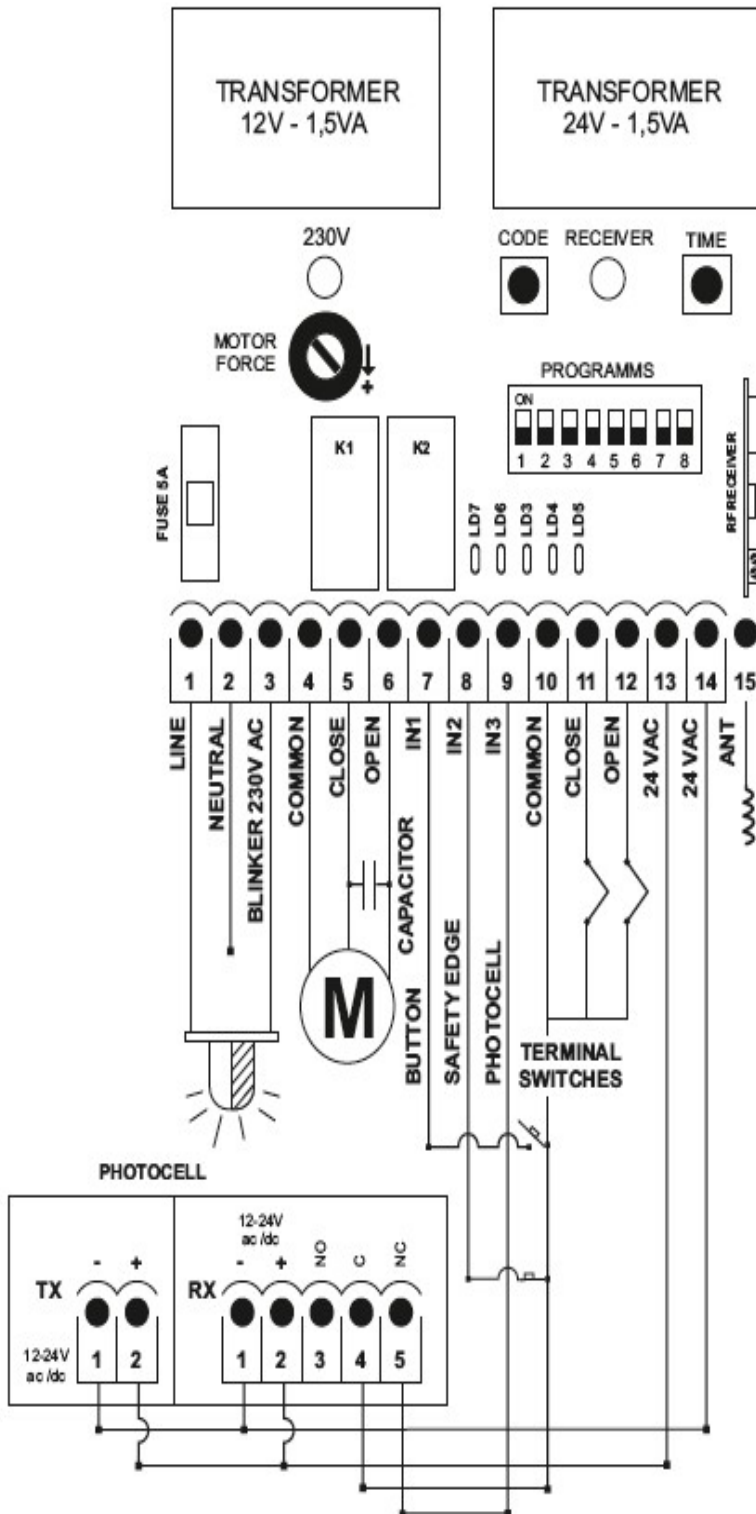
Manufacturer Name: Profelmnet | L.PSARROS AND SIA OE

Address: Proedrou Drakaki 11 17341, Athens, Greece

Tel: 0030-2109850244 6974894108 (Technical Support)

Email: info@profelmnet.com

## CONNECTIONS – OPERATION PROGRAMS



## PROGRAMS

**1 NOT USED**

**2 NOT USED**

### 3 AUTO CLOSE FUNCTION

OFF: No automatic closing

**ON:** With automatic closing **Automatic closing is not allowed without a photocell installed.**

The automatic closing time is 2 minutes. When an obstacle is detected by photocell 1, the automatic closing time is 10 seconds adjustable (see Setting the automatic closing time for Passage).

#### 4 TERMINAL SWITCHES

**OFF:** Without terminal switches. **Roller shutter case.**

**ON:** With terminal switch control. **In case of sliding gate.** The red LED indicators on the board indicate the closed contact of the limit switches. When the door reaches the limit switch, the corresponding LED indicator turns off.

Rolling Shutter	Sliding Gate
Switch 4 OFF. The motor power is ALWAYS FULL.	Switch 4 ON. The power of the motor is controlled by the potentiometer of the automation.

## 5 PHOTOCELL

**The use of photocells or other safety devices is essential for safe operation.**

OFF: No photocells.

ON: Protection Photocell. When the door closes and the contact is broken, the door stops and opens.

**6 NOT USED**

## 7 MOTOR POLARITY CHANGE

**OFF/ON:** Without the automatic closing option, with the automation supplied with 230VAC the first movement is the opening of the door. If it closes, change the direction of the motor movement by moving dipswitch 7 to the other position than the one it is in.

## 8 SAFETY EDGE

**OFF:** Safety edge disabled.

**ON:** Safety edge enabled. Once activated the door stops and moves backwards for 10 points.

#### Power Supply

Terminals	Description (EN)
1	Line (L)
2	Neutral (N)

#### Motor 1 Output

Terminals	Description (EN)
4	Motor Common
5	Motor Close
6	Motor Open

#### Accessory Power Outputs

Terminals	Description (EN)
13	Photocell 12-24VAC/DC
14	12-24VAC/DC

#### Photocells

Terminals	Description (EN)
9	Photocell NC
10	Photocell Common

#### Command Inputs

Terminals	Description (EN)
7	Button Command NO
10	Command Common

#### Safety Edge

Terminals	Description (EN)
8	SafetyEdge Input NC
10	Safety Edge Common

#### Flashing Light Output

Terminals	Description (EN)
1	Flash 230V Output
3	Flash Neutral

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## FUNCTIONS AND CONNECTIONS

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#### Power supply 230VAC:

Check all cables and supply the automation with 230V. Check that the yellow indicator LED is permanently on.

#### Clear remote memory:

Press the code button (CODE). The red LED lights up. Keep it pressed until the red LED goes OFF COMPLETELY. All remote controls have been deleted.

#### Adding a regular remote:

Press the code button and release it immediately when the red LED lights up. Now press the new remote control. The LED flashes briefly. The remote control has been saved.

#### **Adding a pedestrian remote (for partial opening):**

Press the code button (CODE), the red LED indicator lights up steadily. Continue pressing the code button until the red LED starts flashing. Now release the code button and press the remote control button. The red LED indicator flashes briefly. The remote control button has been saved for partial pedestrian opening.

#### **Setting working time:**

Place the door in the fully closed position. Press the TIME button firmly. After 5 seconds the door will begin to open. Keep the TIME button firmly pressed until the door reaches a stop (sliding with limit switches) or a physical stop (opening door).

#### **Setting working time:**

Place the door in the fully closed position. Press the TIME button until the red LED lights up. Release the TIME button and press it again firmly for the desired time for the partial pedestrian opening to last.

#### **Motor power adjustment (in case of a sliding motor):**

The motor power adjustment for its normal speed will be done ONLY during the time the user gives the travel time, from the automation potentiometer. The user will be able to adjust and control the power of the normal speed while giving the travel time. After the end of the travel time adjustment, the motor power adjustment will be automatically saved. If the user wishes to change the motor power to its normal operation, he will have to give the travel time again. In all other cases the automation potentiometer works to adjust the slow power/movement of the motor.

#### **Add new remote controls wireless:**

The door must be completely closed or completely open. Press the remote control that operates the door from a short distance and hold it down until the door stops (approximately 6-7 seconds). Immediately release it and press only the NEW remote control. Check that the new remote control works, otherwise repeat the process from the beginning. The memory is enough to store 300 remote controls.

#### **Photocell placement:**

**Photocell power supply** => from the automation terminals 13-14

**Command of the photocell C and NC** => to the automation terminals 9 & 10

Photocell activation => place switch 5 in the ON position.

The photocell contact is shown on the green LED indicator PHOTO (Green LED on means there is no obstacle in front of the photocell. Green LED off means there is an obstacle in front of the photocell).

#### **Setting the automatic closing time:**

In the 3423 automation, the 2nd automatic closing time can be set, which is the automatic closing time after a vehicle passes in front of the photocell. Press and hold the TIME and CODE buttons together. The red indicator starts flashing, indicating the seconds we want to set for the automatic closing time. The time that we can give to the automatic closing of the passage is from 1 to 120 seconds.

#### **Controller Compatibility - Depending on the model you have**

PS : Fixed Code 433.92MHz. Compatible FIXED CODE 433.92MHz remote controls

PSR/PN : Rolling Unique Code 433.92MHz. Compatibility with the SAME Rolling Unique Code.

#### **Where do we look for the Unique Rolling Encoding Code?**

On the automation there is a white sticker produced by Profelmnet. There, you will find the Unique Rolling Code, with which you search for compatible controls. On the automation there is a white sticker produced by Profelmnet. There, you will find the Unique Rolling Code, with which you search for compatible controls.

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## CE DECLARATION

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According to Directive 2006/42/EC (Machinery Directive), by means of this declaration, the manufacturer:

L. PSARROS & SIA OE

declares that the following product:

3423 – Automation system for 1 motor 230V AC

is an automation component and not a complete machine, and is in conformity with the requirements of the following European Directives:

•2014/53/EU – Radio Equipment Directive (RED)

•2014/30/EU – Electromagnetic Compatibility Directive (EMC)

and complies with the essential requirements and relevant provisions applicable to the product.

Final installation and commissioning are permitted only when the complete system complies with Directive 2006/42/EC.

Manufacturer's Name: PROFELMNET | L. PSARROS & SIA OE

Address: 11 Proedrou Drakaki Street 17341 Agios Dimitrios, Athens, Greece

Telephone: +30 210 9850244

Email: info@profelmnet.com

