Pr.Drakaki 11 ,173 41 Agios Dimitrios
Technical Support : 210 9850 244 – 6974894108
email: info@profelmnet.com | www.profelmnet.com

3614 | Automation for 2 motors 230 VAC

GENERAL INFORMATION
The automation board is designed to control 2 motors with 230VAC motors. 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
- 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: 24VDC
- Operating temperature: –20°C to +60°C
- Recommended enclosure protection: IP54 or higher
- Remote control receiver: Rolling code or Fixed code, depending on the model

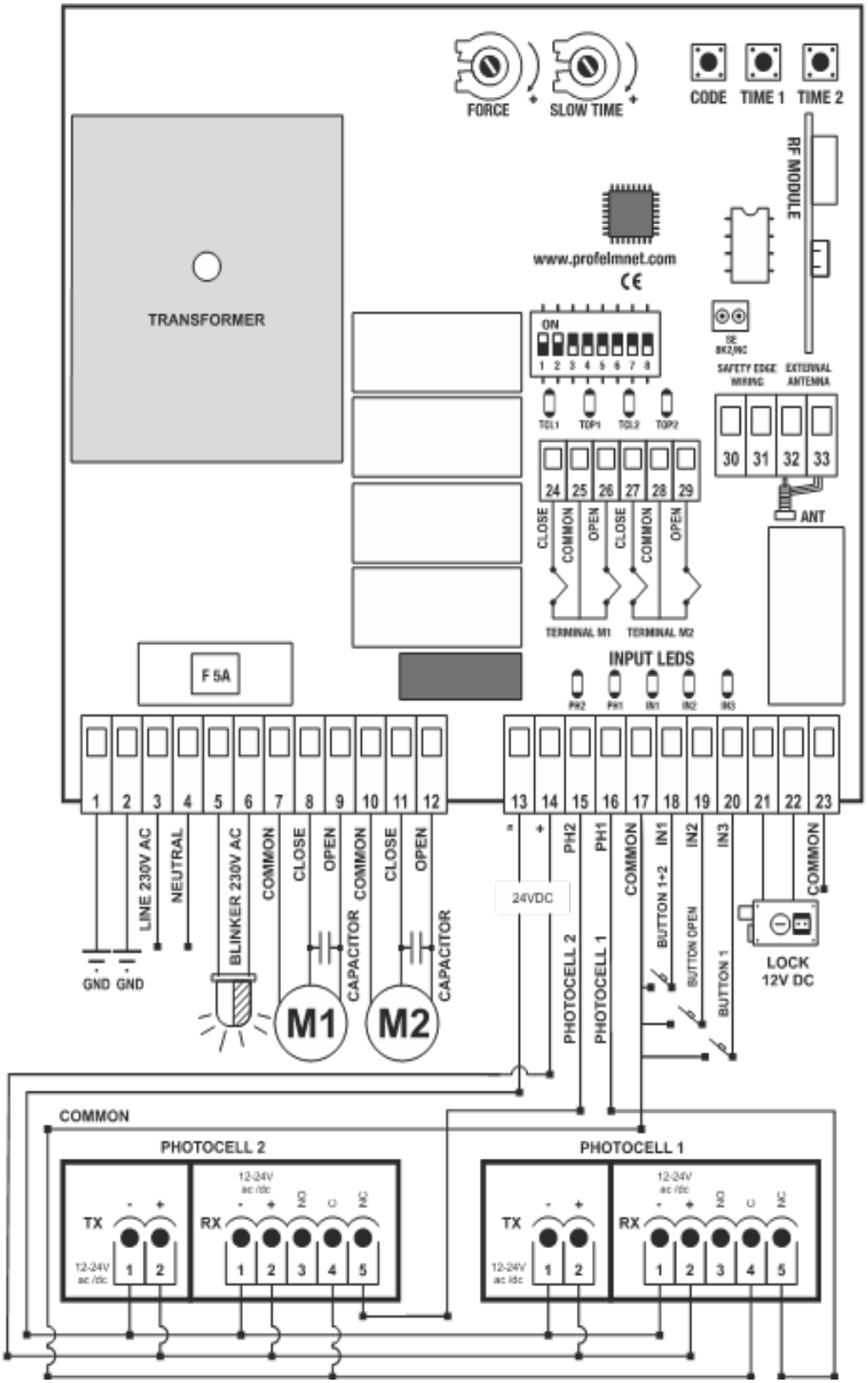
MANDATORY USE OF PHOTOCELLS
For safe operation of the door, the installation of photocells is mandatory in every new automation installation. Operation of the door without active safety means makes it non-compliant with the safety requirements of EN 12453.
The door must not be operated without an active photocell.
In case the photocells are not connected or do not work, the system must only be used in manual mode.

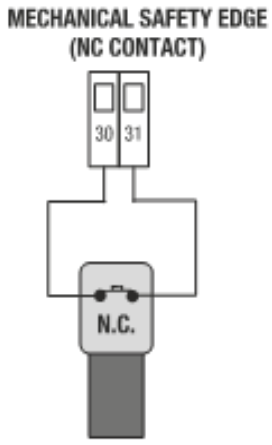
CHECKING CORRECT OPERATION (Test Procedure)
After installation:
1.Check that the door moves without jamming.
2.Check the correct operation of the photocells.
3.Check the limit switches.
4.Perform 5 complete opening/closing cycles.
5.Make sure that the manual release works correctly.

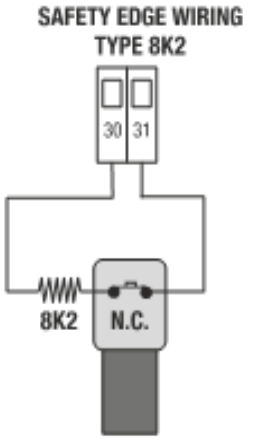
INSTALLATION RESPONSIBILITY
Profelmnet is not responsible for the final installation of the door, nor for any improper or incomplete use of the product.
The correct installation and adjustment of the safety devices (photocell, safety contact, motor power settings) is the responsibility of the installer 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.

Pr.Drakaki 11 ,173 41 Agios Dimitrios
Technical Support : 210 9850 244 – 6974894108
email: info@profelmnet.com | www.profelmnet.com

ELECTRICAL CONNECTION







Pr.Drakaki 11 ,173 41 Agios Dimitrios
Technical Support : 210 9850 244 – 6974894108
email: info@profelmnet.com | www.profelmnet.com

Power Supply

Terminals	Description (EN)
1	Earth (Ground)
2	Earth (Ground)
3	Line
4	Neutral

Motor 1 Output

Terminals	Description (EN)
7	Motor 1 – Common
8	Motor 1 – Close
9	Motor 1 – Open

Motor 2 Output

Terminals	Description (EN)
10	Motor 2 – Common
11	Motor 2 – Close
12	Motor 2 – Open

Accessory Power Outputs

Terminals	Description (EN)
13	24VDC Accessory Output -
14	24VDC Accessory Output +

Safety Photocells

Terminals	Description (EN)
16	Command Photocell 1 NC
17	Common Photocell 1
15	Command Photocell 2 NC
17	Common Photocell 2

Command Inputs

Terminals	Description (EN)
17	Command Common
18	Button 1+2 N.O
19	Button Only Open (Magnetic Loop) N.O
20	Pedestrian Button N.O

Safety Inputs

Terminals	Description (EN)
30	Safety Edge (8k2 / NC)
31	Safety Common

Flashing Light Output

Terminals	Description (EN)
5	Flash Output
6	Flash Neutral

Antenna

Terminals	Description (EN)
32	Antenna
33	Shield Antenna 433,92MHz

Pr.Drakaki 11 ,173 41 Agios Dimitrios
Technical Support : 210 9850 244 – 6974894108
email: info@profelmnet.com | www.profelmnet.com

PROGRAMS

PROGRAM 1	**TERMINAL SWITCHES**	**OFF**: Without limit switches. **ON**: With limit switch control. Sliding or bar case. The green LED indicators on the board indicate the closed contact of the limit switches. When the door reaches the limit switch, the corresponding LED indicator goes out.
PROGRAM 2	**PHOTOCELL 2**	**The use of photocells or other safety devices is essential for safe operation.** **OFF**: There is no photocell. **ON**: Freeze Photocell. When the contact is cut, the door freezes. When the contact is released, the door continues its movement. .
PROGRAM 3	**PHOTOCELL 1**	**The use of photocells or other safety devices is essential for safe operation.** **OFF**: There is no photocell. **ON**: Protection Photocell. When the door closes and the contact is broken, the door stops and opens.
PROGRAM 4	**AUTOMATIC CLOSING**	**OFF**: No automatic closing **ON:** With automatic closing. **Automatic closing is not permitted 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).
PROGRAM 5	**MOTOR DELAY 1 AND MOTOR 2**	**OFF**: Without delay . **ON:** With delay between the 2 sheets .
PROGRAM 6	**AUTOMATIC RE-CLOSING**	**OFF:** No repeated closing. **ON:** Repeated closing for 1 second every hour (hydraulic motors)
PROGRAM 7	**LOCK**	**OFF:** Without lock. **ON:** With lock 12VDC. Maximum instantaneous load 3A.
PROGRAM 8	**SAFETY CONTACT**	**OFF:** Safety contact not checked . **ON:** The safety contact is checked. As soon as the safety contact is activated, the door stops and moves in the opposite direction for 3 seconds. .

FUNCTIONS AND CONNECTIONS

Power supply 230VAC: Check all cables and supply the automation with 230VAC. Check that the yellow indicator LED is permanently lit.

Grounding: It is **essential** to ground the metal parts of the motor. Use terminals 1 +2 to connect the motor grounds to the power supply ground.

Motor connection: **MOTOR 1, the leaf that opens first,** is placed on terminals 7-8-9 and the **MOTOR 2, the leaf that opens second**, is placed on terminals 10-11-12.

Motor running check: After completing the above connections, manually place the two door leaves in the middle, and supply the automation with 230VAC voltage. Press your control and the first movement that the motors **MUST** make is **OPEN**. Otherwise, swap the Close-Open cables (terminals 8/9) for Motor 1 and Close-Open (terminals 11/12) for motor 2.

Setting working time: Before setting the travel times of the two leaves, make sure that you have placed **PHYSICAL STOPS** at the closing and opening of each leaf, otherwise the times will not be able to be set correctly. In case there are no physical stops, your motor must have built-in **MECHANICAL STOPS**.

CASE OF SAME WORKING TIME AT THE OPENING AND CLOSING OF EACH SHEET

1. With the TIME 1 + TIME 2 Buttons

BOTH LEAVES ARE CLOSED

- Press and hold the TIME 1 button until the first leaf is fully opened.
- Press and hold the TIME 2 button until the second leaf is fully opened.

The travel times of the two Motors have now been set.

Pr.Drakaki 11 ,173 41 Agios Dimitrios
Technical Support : 210 9850 244 – 6974894108
email: info@profelmnet.com | www.profelmnet.com

2. Via a stored remote control or external button

BOTH LEAVES ARE CLOSED
Press the TIME 1 + TIME 2 buttons of the automation simultaneously, until the red LED indicator starts flashing.
- Press the control.
- Motor 1 opens.
- When it is fully open, press the Control again.
- Motor 1 stops and Motor 2 starts opening automatically.
- Press the control when Motor 2 is fully open.

The travel times of the two Motors have now been set.

CASE OF DIFFERENT WORKING TIME AT THE OPENING AND CLOSING OF EACH SHEET

1. With the TIME 1 Button

BOTH LEAVES ARE CLOSED
Press the CODE + TIME 2 buttons of the automation simultaneously until the red LED indicator starts to flash quickly.
- Press the TIME 1 button briefly.
- Motor 1 opens.
- When it opens completely, press the TIME 1 button briefly.
- Motor 1 stops and after 1 second, Motor 2 starts to open automatically.
- When Motor 2 opens completely, press the TIME 1 button briefly.
- Motor 2 stops and after 1 second, it starts to close automatically.
- When it closes completely, press the TIME 1 button briefly.
- Motor 2 stops and after 1 second, Motor 1 starts to close automatically.
- When it closes completely, press the TIME 1 button briefly.

The travel times of the two Motors have now been set.

2. Via a stored remote control or external button

BOTH LEAVES ARE CLOSED
Press the CODE + TIME 2 buttons of the automation simultaneously, until the red LED indicator starts to flash quickly.
- Press the control briefly.
- Motor 1 opens.
- When it is fully open, press the control briefly.
- Motor 1 stops and after 1 second, Motor 2 starts to open automatically.
- When Motor 2 is fully open, press the control briefly.
- Motor 2 stops and after 1 second, it starts to close automatically.
- When it is fully closed, press the control briefly.
- Motor 2 stops and after 1 second, Motor 1 starts to close automatically.
- When it is fully closed, press the control briefly.

The travel times of the two Motors are now set.

Slow motion time setting:
In your tests, adjust the SLOW MOTION time with the **SLOW TIME** potentiometer to 1/3 of a turn from the leftmost position so that the two leaves, before completing their movement, fall into slow motion, close or open completely and continue to operate by pressing the physical stops for approximately 7-10 seconds. Adjust micrometrically for more or less slow motion time. When the slow regulator is at zero, the slow motion time is only 2 seconds.

Motor power adjustment:
When we set a travel time for the motors, the **FORCE** potentiometer stores **the force of the normal operation of the motors**. After the travel time is set, the **FORCE** potentiometer controls **the force of the slow movement of the motors**.

Clear remote memory:
Press CODE button continuously. The red indicative LED turns ON. Keep pressing CODE button until the red indicative LED goes COMPLETELY OFF. Release CODE button. The memory is erased.

Add regular remote to memory:
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.

Add pedestrian remote (Motor 1 only):
Press the CODE button, the red LED indicator lights up steadily. Continue pressing the CODE button until the red LED indicator starts flashing. Now release the CODE button and press the remote control button. The red LED indicator flashes momentarily. The remote control button has been saved for pedestrian opening (Motor1).

Add a remote control wireless
The door must be completely closed or open. Press the control that operates the door from a short distance and hold it down until the door stops (approximately 6-7 seconds). Immediately release the old control and press only the NEW one and the door will move in the opposite direction.

Photocell power supply: The power supply output is 24VDC (maximum load 200mA).

External buttons:
Contact IN1 (terminals 17-18) - Activation Button of 2 leaves or 1 leaf in case of Single Leaf Door
Contact IN2 (terminals 17-19) - Activation Button of 2 leaves Opening Only (Magnetic Loop Command)
Contact IN3 (terminals 17-20) - Pedestrian Button (Case of 2 leaves - Control of Motor 1 Only)

Pr.Drakaki 11 ,173 41 Agios Dimitrios
Technical Support : 210 9850 244 – 6974894108
email: info@profelmnet.com | www.profelmnet.com

Setting the automatic closing time for Transit: Press and hold the TIME1 and CODE buttons simultaneously. The red indicator starts flashing indicating the seconds we want to set for the automatic closing time. The time we can give to the automatic closing of the passage is from 1 to 120 seconds.

Beacon/Space Lighting/Warning Light Function
To terminals 5+6 we connect an indicator light which can have 3 functions. The functions alternate cyclically.
-Light (preset function). The indicator light flashes for as long as the motor is running.
-Room lighting. The indicator light lights up steadily for 3 minutes after the last command.
-Warning Light: the light functions as an indication of the door operation. It flashes quickly when the door is closing, It flashes slowly when the door is opening.
To switch from one function to the other, follow the following procedure. We cut off the power to the board. We press the CODE and TIME1 buttons together and, with both buttons pressed, we turn on the power to the board again. The red indicator LED remains steadily on and the function of the indicator light has now changed.

Slow motion change: In the case of a very heavy door where we want to give more power to the slow movement of the motors, we can switch to the slow mode for larger motors.
To switch from one slow movement mode to the other (small/large motors), we follow the following procedure. We cut off the power to the board. We simultaneously press the CODE, TIME1 and TIME2 buttons and with all three buttons pressed, we turn on the board again. The red LED indicator remains steadily lit and the slow movement mode has now changed. We leave the buttons free and use the POWER potentiometer to adjust the strength of the slow movement to the desired result.

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 Unique Rolling Code.

Where we are looking 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.

CE DECLARATION

According to Directive 2006/42/EC (Machinery Directive), by means of this declaration,
the manufacturer: L. PSARROS & SIA OE
declares that the following product: 3614 – Automation system for 2 motors 230V AC

is an automation component and not a complete machine, and is in conformity with the provisions 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.

The final installation and commissioning is 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

CE