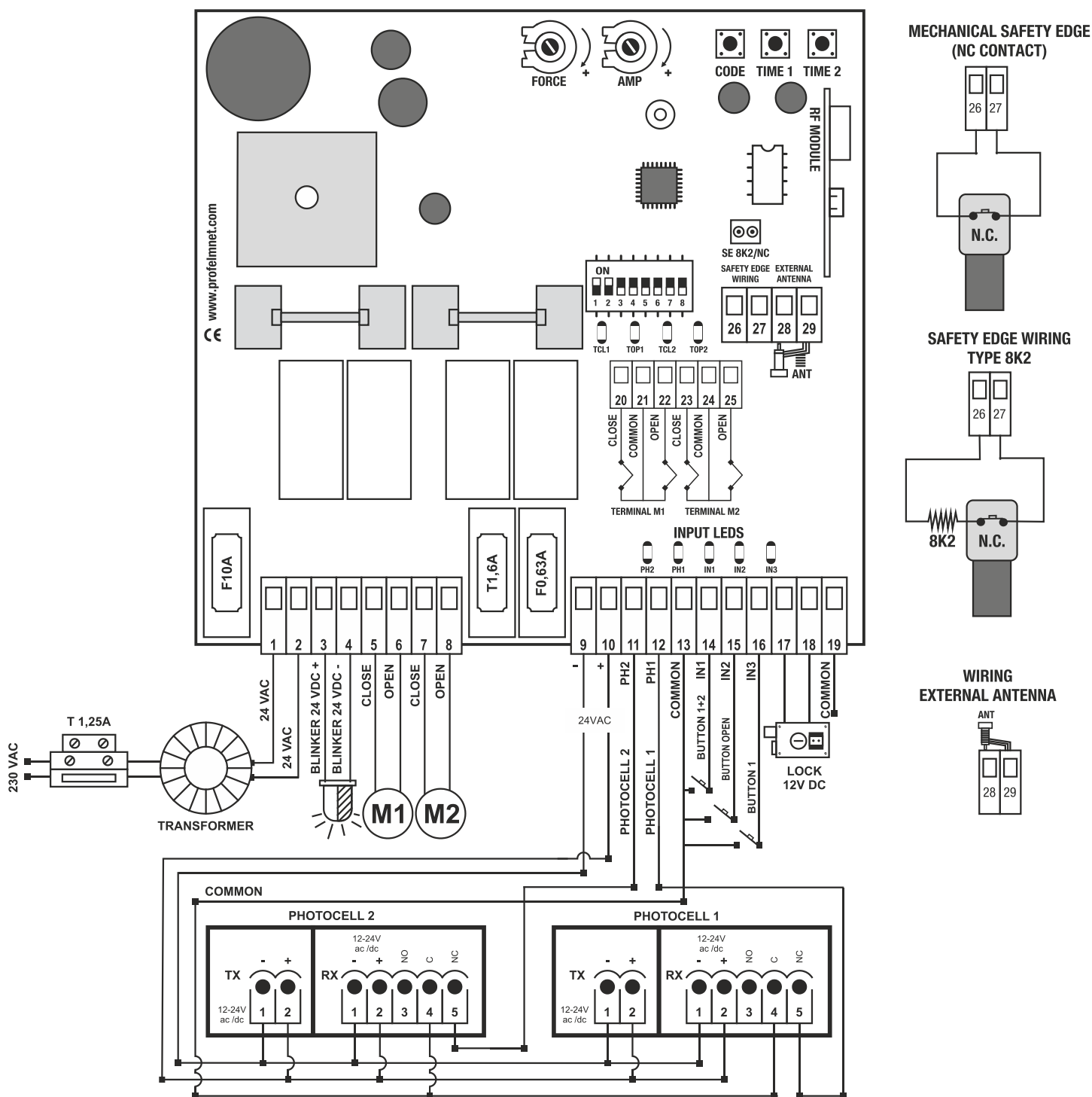


3651 | Control Board for 2 motors 24VDC

ELECTRICAL CONNECTION



PROGRAMS

Program 1	Terminal Switches	OFF: NO terminal switches. In case of single swing gate. ON: Terminal switches. In case of sliding gate or barrier. The indicating GREEN LED shows the close contact of terminal switches. When the gate crosses the terminal switches, the indicating LED is off.
Program 2	Photocell 2	OFF: No photocell 2. ON: Photocell 2 (FREEZING PHOTOCELL) is activated. The gate is freeze, when the contact is cut.
Program 3	Photocell 1	OFF: No photocell 1. ON: Protection Photocell. When the gate closes and the contact is cut, the gate stops and opens.
Program 4	Automatic Close	OFF: No automatic close ON: Automatic Close is activated. It is essential the protection photocell installation. The automatic close time is 2 minutes. When an obstacle is detected by photocell 1, the automatic close time is 10 seconds adjustable. (see Setting the automatic closing time for Passage).
Program 5	Motors Delay	OFF: No delay. ON: Delay between motor 1 + motor 2
Program 6	Repeating Closing	OFF: No repeating Closing ON: Repeating Closing for 1 sec each hour (hydraulic motors)
Program 7	Lock	OFF: No Lock ON: Lock 12VDC. Max 3A .
Program 8	Safety Edge	OFF: NO Safety Edge ON: The Safety Edge is activated. When the contact is activated, the gate stops and moves in the opposite direction for 3 seconds.

CONFIGURATION

Power Supply 24VAC/DC: Check all wiring and power the control board with 24VAC/DC. Make sure the yellow indicator LED remains steadily ON.

Grounding: It is essential to ground the metal parts of the motor. Connect the motor grounds to the power supply ground.

Transformer Fuse: T1.25A fuse must be used on the primary coil of the power supply transformer

Motor Connection: MOTOR 1, which operates the leaf that opens first, must be connected to terminals 5-6.
MOTOR 2, which operates the leaf that opens second, must be connected to terminals 7-8.

Motor Direction Check: After completing the above connections, manually position both door leaves in the center and power the control board. Press the remote control — the first movement that the motors MUST perform is OPENING.
If this is not the case, swap the Open-Close wires on terminals 5/6 for Motor 1 and 7/8 for Motor 2.

Operating Time Adjustment: Before setting the operating times of the two leaves, make sure you have installed PHYSICAL STOPS at both the opening and closing positions. Otherwise, the operating times cannot be set correctly.

If no physical stops are present, your motors must have built-in MECHANICAL STOPS.

CASE: SAME OPERATING TIME FOR OPENING AND CLOSING

- Using the button TIME :** Place the gate in the fully closed position. Press and hold the TIME button firmly. After 5 seconds, the gate will start opening. Keep holding the TIME button until the gate reaches the end stop (for sliding gates with limit switches) or the physical stop (for swing gates).

2. Using a saved remote or external button: Place the gate in the fully closed position.

Turn off power of the control board. Press the TIME button and then switch the power back on. When the yellow LED indicator lights up, release the TIME button. The red LED on the board will start blinking.

- Press the remote control.
- The motor starts to open.
- Press the remote control again when the gate is fully open (in case there are no limit switches). If limit switches are installed, the gate will stop automatically at them.

The operating time is now set.

CASE: DIFFERENT OPERATING TIME FOR OPENING AND CLOSING

1. Using the button TIME

Place the gate in the fully closed position.

Turn off power of the control board. Press the CODE button and then switch the power back on. When the yellow LED indicator lights up, release the CODE button. The red LED will start blinking rapidly.

- Briefly press the TIME button.
- The motor starts to open.
- When the gate is fully open, briefly press the TIME button again (if no limit switches are present). If limit switches are installed, the gate will stop at them.
- After 1 second, the motor will start closing automatically.
- When the gate is fully closed, briefly press the TIME button again (if no limit switches are present). If limit switches are installed, the gate will stop at them.

The operating times are now set.

2. Using a saved remote or external button

Place the gate in the fully closed position.

Turn off power of the control board. Press the CODE button and then switch the power back on. When the yellow LED indicator lights up, release the CODE button. The red LED will start blinking rapidly.

- Briefly press the remote.
- The motor starts to open.
- When the gate is fully open, briefly press the remote control again (if no limit switches are present). If limit switches are installed, the gate will stop at them.
- After 1 second, the motor will start closing automatically.
- When the gate is fully closed, briefly press the remote control again (if no limit switches are present). If limit switches are installed, the gate will stop at them.

The operating times are now set.

Slow Motion Time Adjustment: The default slow motion time is 17 seconds. To change it, press and hold simultaneously the buttons **CODE + TIME1 + TIME2**. The red indicator LED will start blinking, indicating the duration of the slow motion phase.

Motor Force Adjustment: When setting the motor operating time, the FORCE potentiometer stores the force used during normal motor operation. After travel time is set, the FORCE potentiometer controls the motor force during slow motion.

Amperstop (Obstacle Detection) Adjustment: The AMP trimmer adjusts the sensitivity of the motor's obstacle detection (Amperstop). The more you increase the AMP trimmer, the more sensitive the Amperstop becomes.

During operating time setup, the AMP potentiometer stores the sensitivity for normal movement. After setup, it controls the sensitivity during slow motion.

Remote Memory Deletion: Press the CODE button. The red LED lights up. Hold the button until the LED turns off completely. The remotes have been erased.

Save a new Remote: Press the CODE button. Once the red LED lights up, release it immediately. Then press the button on the new remote. The LED will blink briefly. The remote is now saved.

Add Pedestrian Remote (Motor 1 Only): Press the CODE button – the red LED lights up steadily. Keep holding it until the LED starts blinking. Release the CODE button and press the button on the remote. The LED will blink momentarily. The remote is now programmed for pedestrian opening (Motor 1 only).

Add Remote Wireless: Make sure the gate is fully closed or open. From a close distance, press and hold the saved remote until the gate stops moving (approx. 6–7 seconds). Immediately release it and press the NEW remote. The gate will move in the opposite direction. The remote is now saved.

Photocell Power Supply: Power output is 24VAC/DC (max load 500mA) on terminals 9-10.

Photocell Command: Photocell 1: Terminals 12-13, NC contact.

Photocell 2: Terminals 11-13, NC contact.

External Push Buttons:

IN1 (terminals 13-14): Activates both leaves

IN2 (terminals 13-15): Opens both leaves only (used for magnetic loop detectors)

IN3 (terminals 13-16): Pedestrian button (activates Motor 1 only in double leaf systems)

Automatic Closing Time Adjustment: Press and hold TIME1 + CODE simultaneously. The red LED will start blinking, indicating the number of seconds being set for automatic closing time. Adjustable range: 1 to 120 seconds.

Courtesy Light / Warning Light / Flashing Beacon light

Connect a light to terminals 3 + 4. The system supports 3 modes (cycle through them as follows):

Flashing Light (default): Light blinks while the motor is operating.

Area Lighting: Light remains steadily ON for 3 minutes after the last command.

Warning Light: Light blinks fast while closing, slow while opening.

To change the mode:

-Cut power to the board.

-Hold CODE + TIME1 pressed.

-While holding, restore power.

The red LED will stay steadily ON, confirming the mode has changed.

Remote Compatibility (Based on the model you have)

PS: Fixed Code 433.92MHz — compatible with all Fixed Code 433.92MHz remotes.

PSR/PN: Rolling Unique Code 433.92MHz — only compatible with remotes using the same unique rolling code.

Where to find the Unique Rolling Code? On the control board, there is a white production label by Profelmnet. There you will find the Unique Rolling Code, which is required to identify compatible remotes

SECURITY INFORMATION - CE DECLARATION

Carefully read the instructions before beginning to install the product. To ensure the safety of people, it is important that the installer reads all the following installation instructions. Incorrect installation or incorrect use of the product could cause serious harm to people.

Read and follow the instructions below:

- ❖ The product must be used and installed in accordance with its design
- ❖ Save these instructions for future use
- ❖ Before proceeding with any connection or programming, turn off the power supply
- ❖ It is necessary to use 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 gate when it is in operation
- ❖ Keep the remote controls out of the reach of children, to prevent inadvertent operation of the door
- ❖ The installation, maintenance or repair of the automation shall be carried out by qualified personnel
- ❖ The installation of photocells is essential for the safety of vehicles passing through
- ❖ It is necessary to install a safety edge contact for the safe passage of the pedestrians
- ❖ Profelmnet, as the manufacturer, reserves the right to make changes to the product without notice
- ❖ Anything not listed in these instructions is not appropriate

**The designer and producer
L.PSARROS & SIA OE | Profelmnet declares that
The product 3651 control board for 2 motors 24VDC**

is according to European Directives requirements of RADIO EQUIPMENT DIRECTIVE (RED) 2014/53/EU and ELECTROMAGNETIC COMPATIBILITY EMC 2004/108/EC and satisfies all the applicable standards to the product.