

3633 | Automation for 1 230 VAC sliding gate motor | barrier

GENERAL INFORMATION

The automation board is designed to control sliding doors, barriers with a 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. The product meets the essential safety, electromagnetic compatibility and radio equipment requirements of the relevant European directives.

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, 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
- 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
- Remote control receiver: Rolling code or Fixed code, depending on model
- RF frequency: 433,92MHz

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.

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

L. PSARROS & SIA OE

declares that the following product:

3633 – 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.

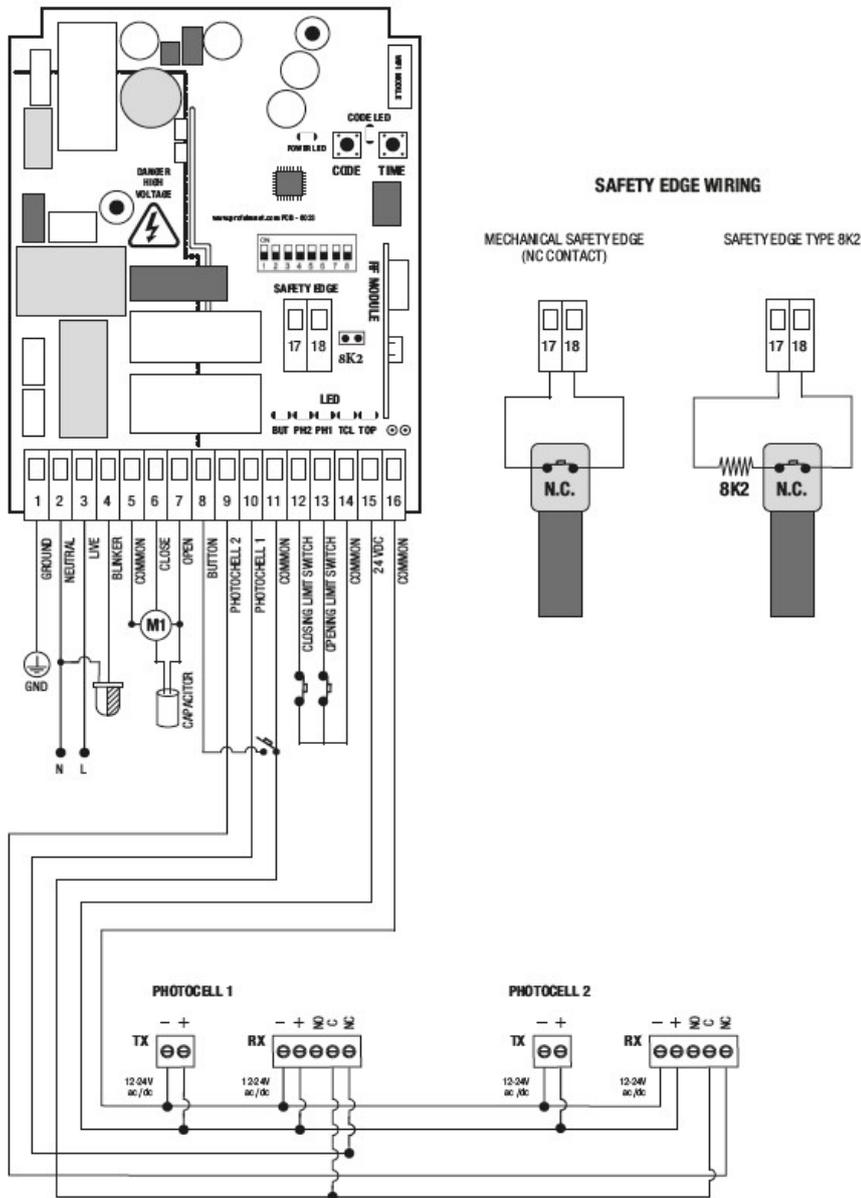


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CONNECTIONS – OPERATION PROGRAMS



1. DECELERATION

OFF: No slow motion

ON: With slow motion that starts 1 sec. before the end of the route and continues for 40 sec. or until it finds terminals and for 15 sec. when there are no terminals. Consult the relevant table below for the slow motion setting.

2 BRAKE

OFF: Without brake

ON: Brake upon completion of movement. DO NOT select this if you have not first selected slow movement because using it will damage the automation relays.

3 AUTO CLOSE FUNCTION

OFF: Without 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 limit switches. Single opening case.

ON: With limit switch control. Sliding or bar case. 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 goes out.

5 PHOCELLS

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

OFF: No photocell.

ON: Protection photocell. When the door closes and the contact is broken, the door stops and opens. The use of photocells or other safety devices is essential for safe operation.

OFF: No photocell.

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

6 SLOW MOTION SETTING OPTION

OFF: When we have motors up to 800 kg

ON: When we have a motor over 800 kg

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 switch 7 to the other position than the one it is in.

8 PHOCELL 2 The use of photocells or other safety devices is essential for safe operation.

OFF: NO photocells. **ON:** Photocells. The power supply of the photocell 24VAC in terminal 15&16 and COM & NC of the photocell in terminal 09 and 11

Power Supply

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

Motor Output

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

Terminal Switches

Terminals	Description (EN)
11	Terminal Switch Common
12	Terminal witch Close
13	Terminal Switch Open

Accessories Power Supply

Terminals	Description (EN)
14	24VDC
15	24VDC

Photocells Inputs

Terminals	Description (EN)
9	Photocell 2 Command NC
11	Photocell 2 Common
10	Photocell 1 Command NC
11	Photocell 1 Common

Button Input

Terminals	Description (EN)
8	Button NO
11	Command Common

Safety Edge

Terminals	Description (EN)
17	Safety Edge Input NC/8k2
18	Safety Edge Common/8k2

Flashing Light Output

Terminals	Description (EN)
2	Flash 230V Output
4	Flash 230V Neutral

FUNCTIONS AND CONNECTIONS

Power Supply 230 VAC: Supply the control panel with 230V. Check that the yellow indication light is ON. Press the button of the transmitter and check the red indication light is ON. The first gate move after power-up (230V) is the OPEN direction, otherwise place the dipswitch 7 in the opposite position.

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

Adding new remote from control panel: Press the CODE button until the red indicative LED turns ON. Release immediately the CODE button and press the transmitter's button. The red indicative LED blinks once as an indication of successful save.

Adding new pedestrian remote from control panel: Press the CODE button continuously until the red led starts blinking. Then release the code button and press immediately the transmitter button. The red indicative LED blinks once as an indication of successful saving of pedestrian remote

Working time: While the gate is fully closed, press and keep the TIME button of the control panel pressed until the gate goes to fully open position. Then leave it. The working time is saved.

Working time pedestrian: While the gate is fully closed press the TIME button until the red led is turned ON release the button and press it again steadily for as long as you want the pedestrian time

Adjust motor force: The motor power adjustment for the normal motor speed will ONLY be made while the user is programming the working time using the trimmer of the automation. The user will be able to adjust and control the force of normal motor speed while programming working time. After the program of working time, the motor force will also be automatically saved. If the user wishes to change the motor's force, it must again program the working time.

Adding a new remote remotely: The motor is fully closed or open. Press a working transmitter button (already in memory) to start the motor working and hold it pressed until the motor stops. When it stops, leave it and press the new transmitter button immediately. The new transmitter is saved. Repeat steps to program more transmitters remotely. When the memory is full (300 transmitters) you cannot add more new transmitters.

Photocell 1:

Power Supply => terminals 15-16

Command photocell C και NC => terminals 10 & 11

Photocell activation => set switch 5 to the ON position.

The contact of the photocell is shown on the green indicator PH1 (On green LED means there is no obstacle in front of the photocell. Off green LED means there is an obstacle in front of the photocell)

Photocell 2:

Power Supply => terminals 15-16

Command photocell C και NC => terminals 9 & 11

Photocell activation => set switch 5 to the ON position.

The contact of the photocell is shown on the green indicator PH1 (On green LED means there is no obstacle in front of the photocell. Off green LED means there is an obstacle in front of the photocell)

Adjusting auto close time:

There is a double counter in the A/C function. The first one is 120 seconds and is applied when the door stops after an open function. During this counting time of 120 sec., if the photocell beam is disturbed, then after the beam is free, the A/C counting time becomes 10 sec. until the fully closed position. **In this control panel, the second counting time of 10 sec., can be regulated. Press the TIME button, keep it pressed and within 1 sec , press the CODE button.** The red indicating light starts flashing, indicating the seconds of the counter. The time of the counter is from 1-120 seconds. Keep it pressed for the time you wish to give in A/C and pedestrian function. The dipswitch 3 needs to be ON.

Deceleration: For motors up to 800kgs Program 6 of the control board => OFF And we adjust the power of deceleration of the trimmer of the control board

For motors above 800kgs Program 6 of the control board => ON And we adjust the power of deceleration of the trimmer of the control board

Light Function: Light can be connected on terminals 1+3 which has two functions

-**Flashlamp** (default function). The light is flashing for as long as the motor moves

-**Steady light (3 minutes)**. The light is turned on steadily for 3 minutes after the last command

To change between those two functions we should turn the power off , press CODE button and TIME button simultaneously and turn the power back ON. The red led stays ON and then we release the two buttons. Light function has been changed successfully

Safety Edge: Factory default, it is ALWAYS shorted. Terminals 17+18.

8K2 connection: We short-circuit the jumper located on the terminals of the safety contact, if we want the termination option with an 8K2 resistor. **NC Contact connection:** We short-circuit the jumper located on the terminals of the safety contact if we want a termination option with an NC contact.

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.