**PROFELMNET**
THE POWER TO MOVE

3050
## Control panel for 24 VDC motors up to 200watt

Code	Frequency (MHz)	Codification	Terminal Switches	Photocell	Ext.Button	Auto/Close	Light 24v	Motor Torque	Deceleration	Amperstop	Memory
PSR/PTR - 3050	433,92/868,3	Keeloq Rolling	YES	YES	YES	YES	YES	YES	YES	YES	300
PS - 3050	433,92	Standard	YES	YES	YES	YES	YES	YES	YES	YES	300
PN - 3050	433,92	Profelmnet Rolling	YES	YES	YES	YES	YES	YES	YES	YES	300

Check all connections. Check the terminal switches of the motor.

No	Function description
1	**DECELARATION FUNCTION** **OFF**: NO deceleration **ON**: With deceleration, that starts 2SEC before the end-route of the gate and continues for 40SEC or until the terminal switches is blocked. If there are not terminal switches, the deceleration continues for 15 seconds.
2	**Not used.**
3	**AUTO-CLOSE FUNCTION** **OFF**: No auto close **ON**: **Auto-close**. Embedded auto close function. Works with the photocell. When the gate opens and there is no access (no obstacle detection from the photocell), the A/C time is 120 seconds (the gate will close after 120 seconds). If there is access and obstacle detection from the photocell, then the A/C time is 10 seconds (the A/C timer counts 10 seconds after the photocell is free and then the gate will automatically close). The second time of A/C can be changed (follow the below instructions).
4	**TERMINAL SWITCHES** **OFF**: NO terminal switches. In case of single swing gate or rolling shutter. **ON**: Terminal switches. In case of sliding gate or barrier.
5	**PHOTOCELL** **OFF**: NO photocells. **ON**: Photocells. The power supply of the photocell 24VAC in terminal 1&2 and COM & NC of the photocell in terminal 11 & 12
6	**AMPEROSTOP FUNCTION** **OFF**: No amperostop function **ON**: With amperostop function (see below the detailed function)
7	**MOTOR REVERSION** **OFF/ON**: The first move of the motor needs to be **opening**, after the power of control panel. When the first move is closure, switch the dipswitch 7 to the opposite position.
8	**BLINKER LIGHT (FLASH) - LIGHT** **OFF**: FLASH. The terminals 4 & 5 give 24V for how long the gate is working. **ON**: LIGHT. The terminals 4& 5 give constant power 24V for 2 minutes after the latest command in the control panel.

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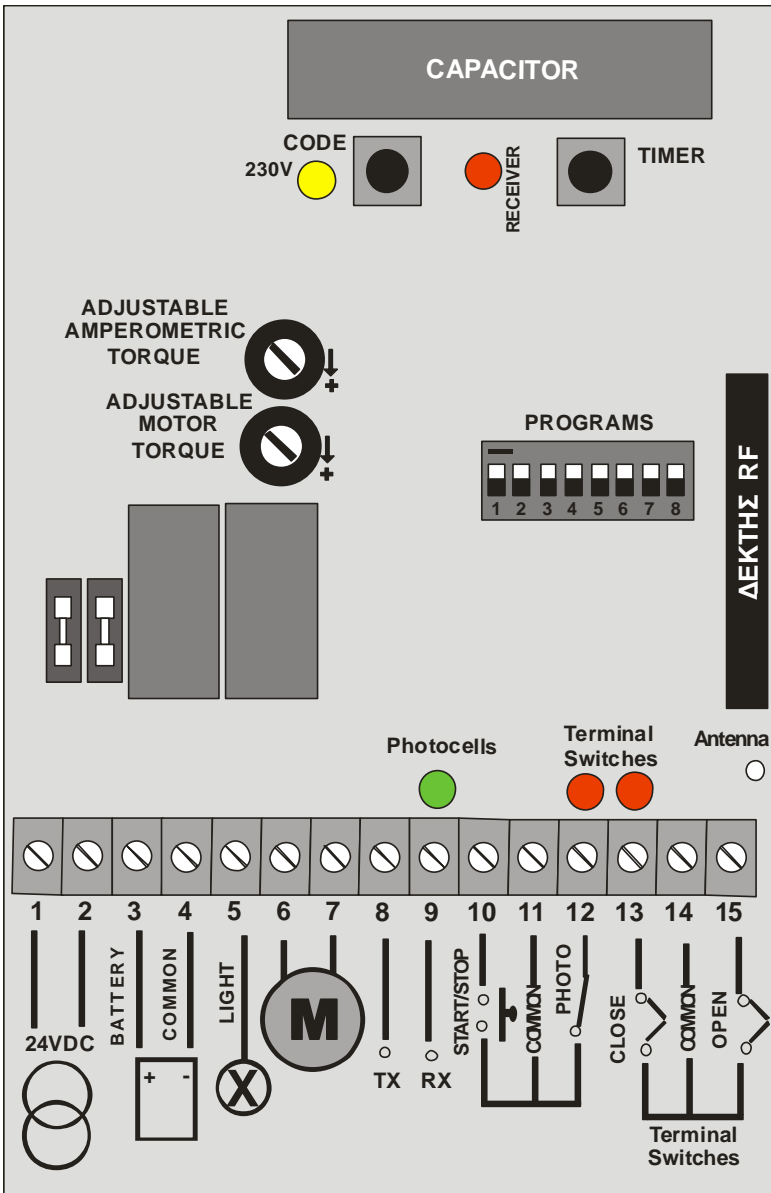
Functions and connections
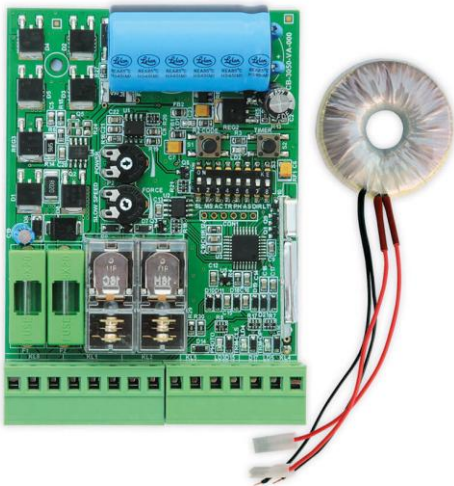
Power supply 24VAC:

Supply the control panel with 24V.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 (24V) is the OPEN direction, otherwise place the dipswitch 7 in the opposite position.

Clear memory:

The first step is to clear the control panel memory. Press the button CODE of the control panel and the RED indication light goes ON after a while. Keep it pressed until the RED indication light goes OFF. The memory is now clear.

Adding a new transmitter with the control panel CODE button:

Press the CODE button and the RED indication light goes ON (after a small delay). Leave it and during the next 3 seconds, press the desired transmitter channel button until the RED indication light blinks and goes OFF. The new transmitter is saved. Follow the same procedure to program more (up to 300 transmitters) new transmitters.

Working time:

Adjustable from 1-180S. 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.

Adjust motor force-torque:

The motor torque is applied during gate operation.. Place the motor force trimmer in the middle and check. The motor force is controlled by the potentiometer in the control panel.

Adding a new transmitter 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.

Adding a new transmitter 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.

Adjust the level of amperostop:

From the Adjustable Amperometric torque potentiometer, we adjust the sensitivity level we want automation to have. Turning the potentiometer clockwise, we increase the sensitivity of the amperostop, ie the automation recognizes a small force obstacle. When the gate closes and it operates under the normal speed, the amperostop function stops the gate and automatically re-opens it. When the gate closes and it is under the deceleration, the amperostop function stops the gate instantly. For this reason, we can operate the automation on a motor without terminal switches but with physical stops. In any case, when the gate opens the amperostop function stops the gate.

Battery supply:

It gives automation autonomy in case of power failure. We connect 2 12V / 7Ah batteries in series at 3 & 4 terminals. The automation charges the batteries that are used in the occasion of a power failure.

Pedestrian function:

When the pedestrian traverses the gate, the gate will open for a while and then automatically will close. Photocells need to be installed. The time of closing is the same with the second time of A/C.

Photocell connection:

The photocell is an independent device and its mission is to detect an obstacle (pedestrian, vehicle, animal) and to warn the automation that if the door closes, it stops immediately and automatically reopens. To operate it requires power supply (24VAC or 230VAC depending on the model) given by the automation from the 1 + 2 terminals. In case of battery supply, the power supply of photocell is connected to the 3 + 4 terminals. The command of the photocell C and NC (read the instructions of the photocell before connecting it) is connected to the terminals 11 & 12 (see diagram). To turn the photocell on, place the program 5 (dipswitch 5) to the ON position. When there is no obstacle, the green LED (PHOTO) of the automation is permanently lit, otherwise the green LED goes off.

Photocell operation:

When the gate closes and the photocell beam is cut-off, the gate stops immediately and automatically activates the open function. If the photocell beam is cut-off, the gate never closes.

Adjusting the auto close time:

There is a double counter in the A/C function. The first one is 120 seconds and is applied when thegate 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.

Indication light LED:

There are indication LED lights that displays the different functions of the control panel.

Reset the automation:

Case of malfunction, please remove the power supply (230Vac) for 10 seconds, reconnect and recheck.

Compatible transmitters:

Based on the model you have, select the appropriate transmitter.

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