



PORTOS TR7  
spółka z ograniczoną odpowiedzialnością  
ul. Złota 71, 62 - 800 Kalisz  
tel. 62 / 768 40 00  
sekretariat@portosrolety.pl  
www.portosrolety.pl

# User manual of

# EV/Y

# motor



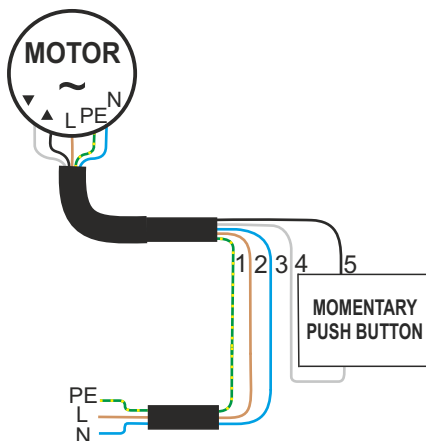
## Technical data:

<b>Power Supply:</b>	230V 50Hz
<b>Operating temperature:</b>	from -10 °C to +50 °C
<b>Frequency:</b>	433 MHz
<b>Transmission power:</b>	<10 mW
<b>Operating range:</b>	Determined by the system architecture and regulatory factors
<b>Rated power:</b>	40/10 - 144 W 60/10 - 113 W 60/20 - 161 W



*EV/Y Portos motor is a radio drive provided with electronic end limits and with obstacle detection, that can self-adjust its end limits. Proper operation of the motor requires blockade hooks and side guides/buffers in the bottom slat.*

## 1. CONNECTION:



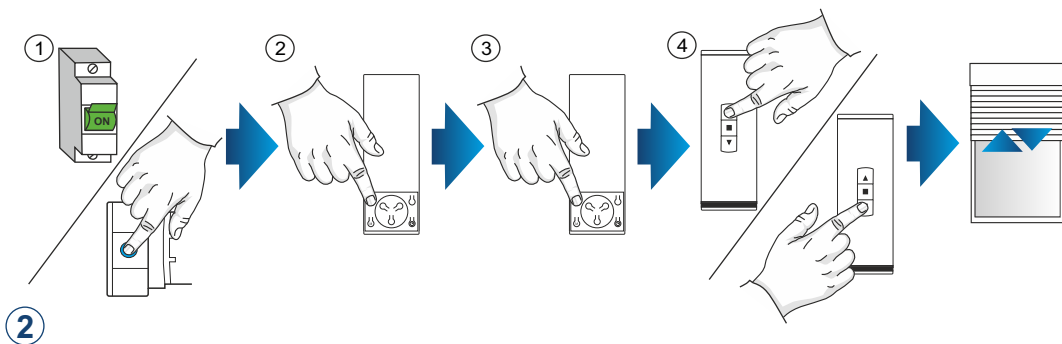
- 1 = PE - (Protective Earth) wire (green-yellow)
- 2 = L - Live (hot/phase) wire (brown)
- 3 = N - neutral wire (blue)
- 4 = CONTROL 1 (black)
- 5 = CONTROL 2 (white)

- The Protective Earth wire (green-yellow striped), neutral wire (blue) and Live (hot/phase) wire (brown) are used for the supply of power to the drive. These wires shall be properly connected to the grid, to PE, N and L wires respectively.
- Black and white wires are used for the wired control of the motor via a single momentary push button. These wires shall not be under voltage! A command is given by a short-circuiting action inside the button (switch). The roller shutter is controlled in the following sequences:

Up ➔ Stop (if the roller shutter is moving) ➔ Down ➔ Stop (if the roller shutter is moving)

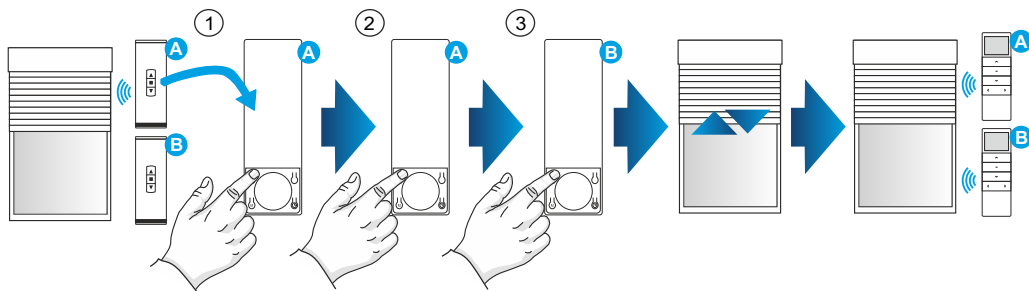
## 2. PROGRAMMING THE FIRST REMOTE CONTROL FOR THE MOTOR.

1. Connect the motor to power supply or press a relevant button on the motor - the motor will confirm this with three short beeps. If the motor comes with a built-in receiver, it will additionally confirm the connection with up/down movements.
2. Press the P2 button on the remote control - the motor will confirm this with a short beep.
3. Press the P2 button on the remote control again - the motor will confirm this with a short beep.
4. Press the UP or DOWN button on the remote control. The motor will confirm this with a short up/down movement. Direction of operation is controlled by the button pressed on the remote control.



### 3. ADDING AN ADDITIONAL REMOTE CONTROL TO THE DRIVE.

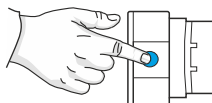
1. Press the P2 button on the already programmed channel on the remote control (A) - the motor will confirm this with a short beep.
2. Press the P2 button on the remote control again - the motor will confirm this with a short beep.
3. Select channel on the new remote control (B), which you want to assign to the motor control (or alternatively a new channel on the same remote control) and press the P2 button - the motor will confirm this with a short beep. New remote control has been added.



### 4. REVERSING THE OPERATING DIRECTIONS.

**Option 1:** Press the button on the motor for about 5 seconds. Once the motor has confirmed the operation with the up/down movement, stop pressing the button.

**Option 2:** Program the remote control (2) again. In point 4 - use the opposite direction.

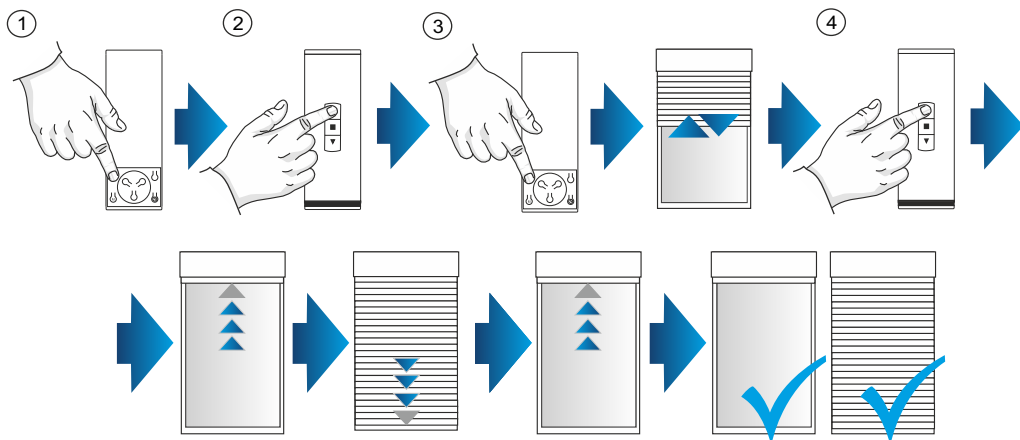


5 seconds

### 5. AUTOMATIC SETUP OF END LIMITS.

**!!! Note!** - before starting any autocalibration, set the roller shutter in the mid position.

1. Press the P2 button on the remote control - the motor will confirm this with a short beep.
2. Press the UP button on the remote control - the motor will confirm this with a short beep.
3. Press the P2 button on the remote control - the motor will confirm this with a short beep and the up/down movement.
4. Press the UP button - the drive starts moving the shutter to set up the end limit positions. The motor will complete the autocalibration cycle in the order of up->down->up. Once the roller shutter stops in the upper position, end limit positions have been set.

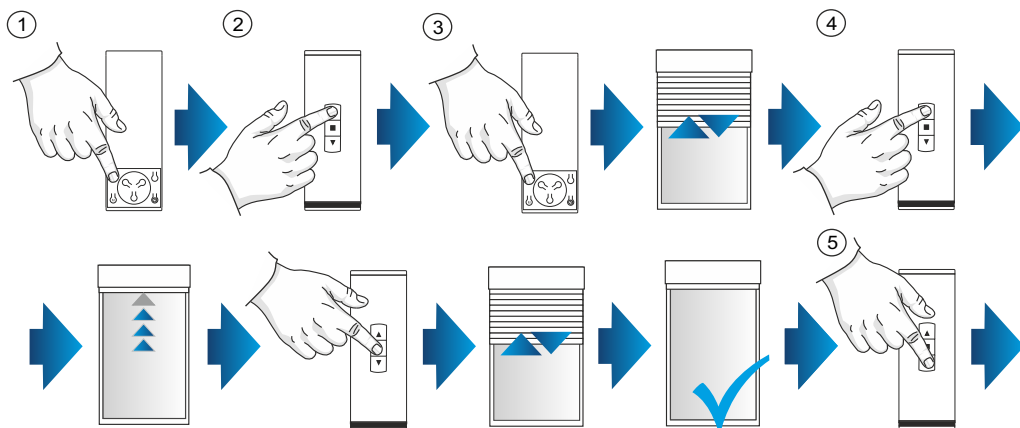


## 6. MANUAL SETUP OF END LIMITS.

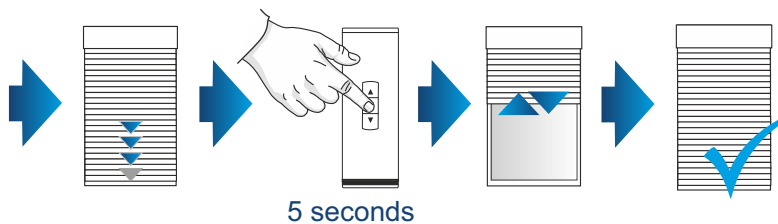
**!!! Advice:** Press the P2 button when the motor is in motion - the motor will then continue moving in short sections (jogs), which will facilitate the fine-tune the positions.

**!!! Note!** - before starting any autocalibration, set the roller shutter in the mid position.

1. Press the P2 button on the remote control - the motor will confirm this with a short beep.
2. Press the UP button on the remote control - the motor will confirm this with a short beep.
3. Press the P2 button on the remote control - the motor will confirm this with a short beep and the up/down movement.
4. Press the UP button Stop the roller shutter in the position intended to be the upper end limit, next press the STOP button for about 5 seconds until the motor confirms this with respective movement.
5. Press the DOWN button Stop the roller shutter in the position intended to be the lower end limit, next press the STOP button for about 5 seconds until the motor confirms this with respective movement.

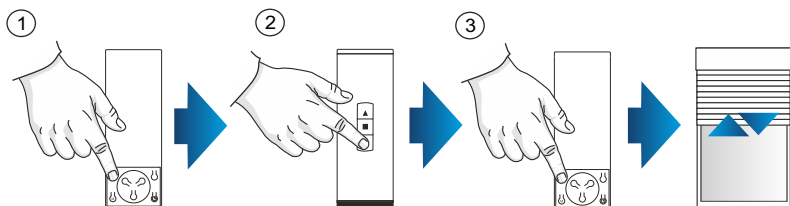


5 seconds



## 7. CANCELLING THE END LIMIT POSITIONS.

1. Press the P2 button on the remote control - the motor will confirm this with a short beep.
2. Press the DOWN button on the remote control - the motor will confirm this with a short beep.
3. Press the P2 button - the motor will confirm this with the up/down movement.

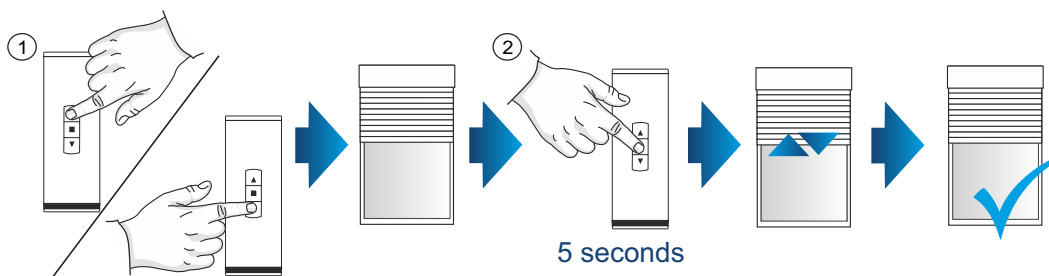


## 8. SETTING THE PREFERRED POSITION.

1. Set the roller shutter in the position intended to be the preferred position.
2. Press the STOP button for about 5 seconds until the motor confirms this with respective movement.

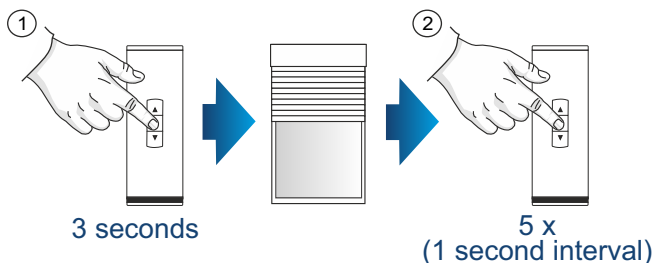
*From then on, if the STOP button is pressed for about 3 seconds, the roller shutter will move to its preferred position.*

**!!! Note:** To change the preferred position, the programmed preferred position needs to be cancelled first (point 9), and next, the new preferred position has to be set again.



## 9. CANCELLING THE PREFERRED POSITION.

1. Set the roller shutter in the currently programmed preferred position by holding the STOP button for about 3 seconds.
2. When the roller shutter is in the preferred position, press the STOP button 5 times, there should be at least one second of interval between the press action. The motor will confirm this with 3 short beeps.

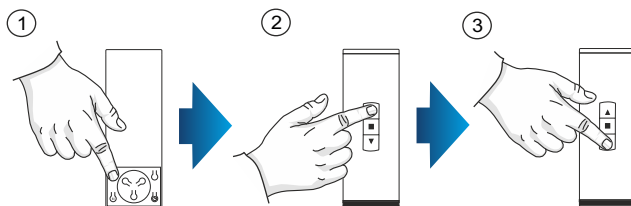


## 10. IMPULSE (INCREMENTAL) MOVEMENT.

Default operation mode of the control system is in a "hold" mode. This means that if relevant direction is pressed once on the remote control, the roller shutter will move to its end limit position.

In the incremental control mode, a short press action on the direction button will result in the shutter movement only for the duration of the button press action (with no "hold" mode). If the direction button is pressed for over 3 seconds, the roller shutter will be moving until it reaches the end limit position (like in the "hold" mode).

1. Press the P2 button on the remote control - the motor will confirm this with a short beep.
2. Press the UP button on the remote control - the motor will confirm this with a short beep.
3. Press the DOWN button on the remote control - the motor will confirm this with 3 short beeps.

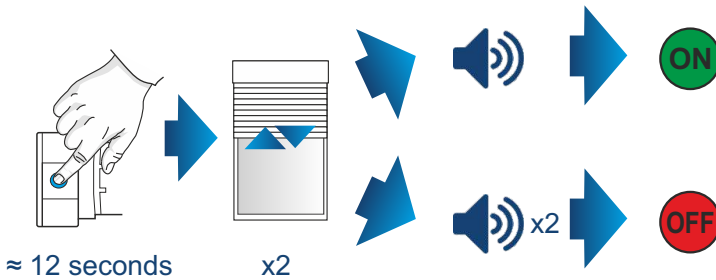


# 11. AUTOMATIC RECALIBRATION OF END LIMITS.

If recalibration is on, every 30 days the drive will automatically set the end limits (via auto-recalibration). This option is on by default.

Press and hold the service button on the drive until the 3rd short drive movement (about 12 seconds). The motor will confirm this with a double up/down movement and an audio signal:

- 1 audio signal** - recalibration is on
- 2 audio signals** - recalibration is off





**WARNING - FOR THE SAFETY OF PEOPLE,  
IT IS IMPORTANT TO FOLLOW THIS USER MANUAL.  
KEEP THIS USER MANUAL AT ALL TIMES.**



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ul. Złota 71

62-800 Kalisz

tel 62 768 40 11

E-mail: [sekretariat@portosrolety.pl](mailto:sekretariat@portosrolety.pl)

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