EXALUS TR7
Spółka z ograniczoną odpowiedzialnością
Kuchary 24F
63-322 Gołuchów
www.exalus.pl

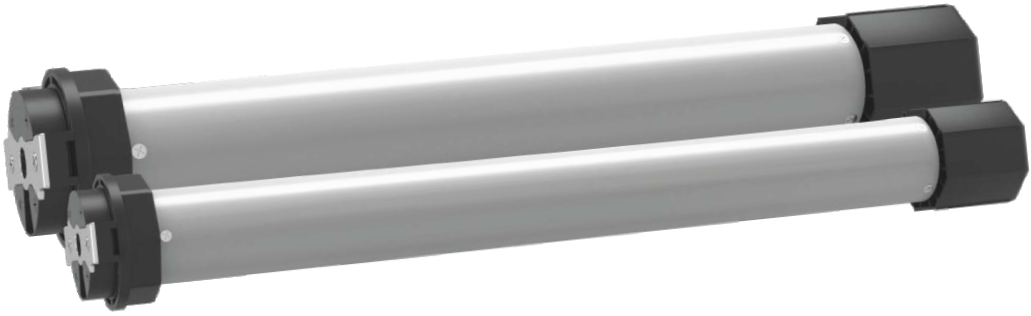
MOTOR USER MANUAL
SSR-BIDI

The motors operate
at 868 MHz

CE

Technical data :

Power Supply:	230V 50Hz
Rated power:	40/10 - 144 W 60/10 - 113 W 60/20 - 161 W
Operating temperature:	from -10 to +50°C
Length of the motor cable:	2 m
Number of wires in a cable:	5
Transmission:	<25 mW

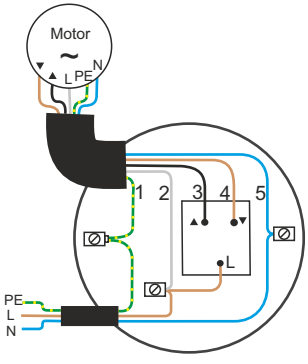


The User Manual is valid for SSR-BIDI motors with 4.2.0 software and later updates (from 01.03.2025)

NOTE: The radio receiver, in-built in the motor, allows for direct cooperation with PX-BIDI, NX-BIDI, PXZF-BIDI, NXZF-BIDI, NX-BIDI PRO remote controls and the TR7 control unit.

1. Connection scheme:

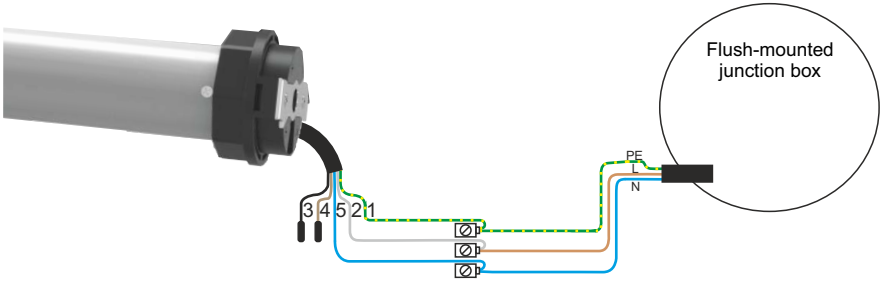
- Connection scheme of the radio controlled motor with a switch



1 = PE - Protective Earth) wire (**yellow-green**)
2 = L1 - Live (hot/phase) wire (white)
3 = UP (**black**)
4 = DOWN (**brown**)
5 = N - neutral wire (**blue**)

Note: For wired control, exclusively monostable dual switches shall be used.

- Connection scheme of the radio controlled motor with no switch



1 = PE - Protective Earth) wire (**yellow-green**)
2 = L1 - Live (hot/phase) wire (white)
3 = UP (**black**)
4 = DOWN (**brown**)
5 = N - neutral wire (**blue**)

Note: Once voltage is supplied to the drive, BOOTLOADER gets activated first (about 5 seconds). After activation of the BOOTLOADER, the drive confirms entering into the remote control detecting and pairing mode with a short UP/DOWN movement, which takes about 10 seconds. After that time, the motor confirms entry into the usual operation mode with the UP/DOWN movement.

NOTE: During any programming operations, only the programmed drive should be connected to power supply.

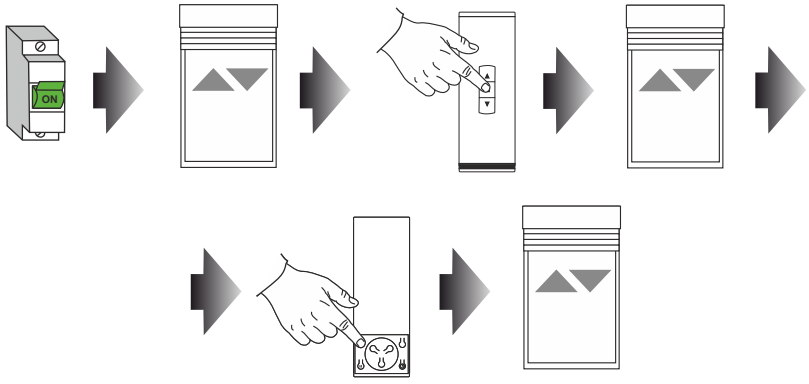
2. THE FIRST LAUNCH AND ADDING REMOTE CONTROLS:

NOTE: The SSR-BIDI is a Plug&Play type of motor, thus, no manual set-up of end limit positions is required. The drive learns in the course of usual operation - after performing 3 full cycles, it will remember the end limit positions.

If the drive is not calibrated, local buttons operate with no UPS, while the permanently added remote control and the application - with the UPS. After calibration, local buttons operate as follows: a short press - no UPS, a press longer than 2 seconds - with UPS.

Proper operation is preconditioned with stable sub-surface (window sill), blockade hooks and bottom lath stoppers or buffers that prevent the curtain profile from sliding out of the upper part of the guide rails.

1. Supply voltage to the motor (after a while, it is confirmed with a short UP/DOWN movement of the drive).
2. Pre-select a channel on the remote control and immediately after the motor moves, press the STOP button (confirmed with a short UP/DOWN movement). The remote control has been temporarily assigned to the motor and operates in the no UPS mode.
3. Check correctness of the motor movement directions. When the drive does not move, any short press of the STOP button will reverse the movement direction.
4. Press the P2 button on the remote control (confirmed with a short UP/DOWN movement). The remote control has been permanently added and operates in the UPS mode.
5. The drive learns the end limit positions in the course of usual operation - (over the first 3 cycles).



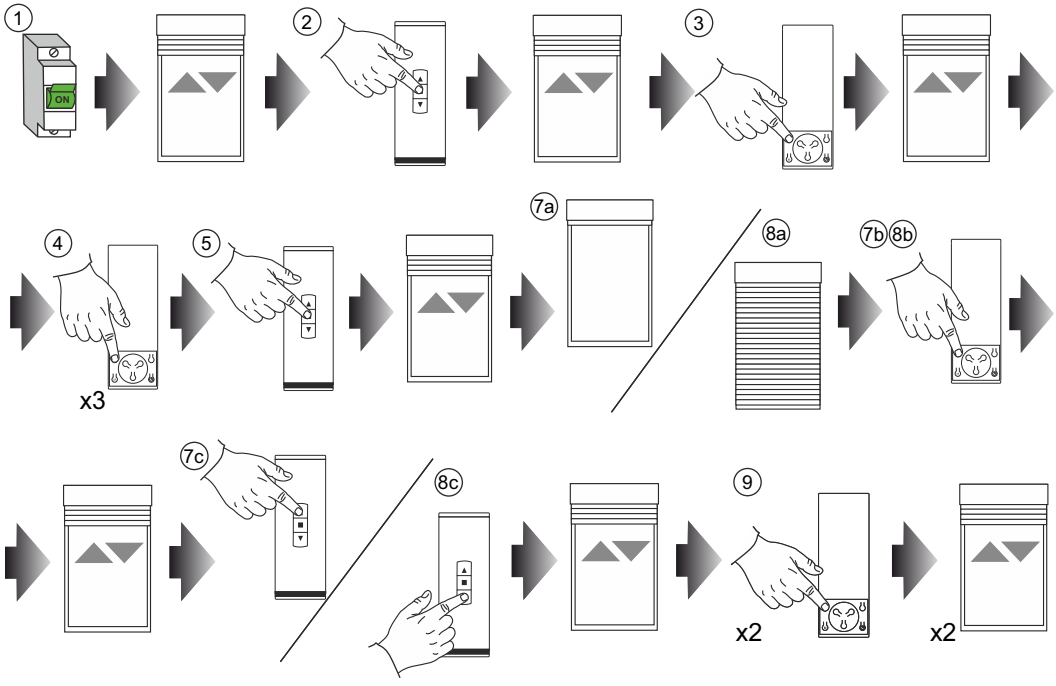
3. MANUAL SET-UP OF END LIMITS:

Note: The recommended mode of operation of the drive is the mode, in which the motor learns the end limit positions. If, for technical reasons (no window sill, no caps in the bottom slat), it is not possible to automatically calibrate the drive, the end limit positions can be manually set up.

1. Supply voltage to the motor (confirmed with a short UP/DOWN movement).
2. Select a channel on the remote control and press the STOP button (confirmed with a short UP/DOWN movement), the remote control has been assigned to the motor and operates in the no UPS mode.
3. Press the P2 button (confirmed with a short UP/DOWN movement), the remote control has been permanently assigned.
4. Press the P2 button 3 times (confirmed with a short UP/DOWN movement after each press).
5. Press the STOP button (confirmed with a short UP/DOWN movement,

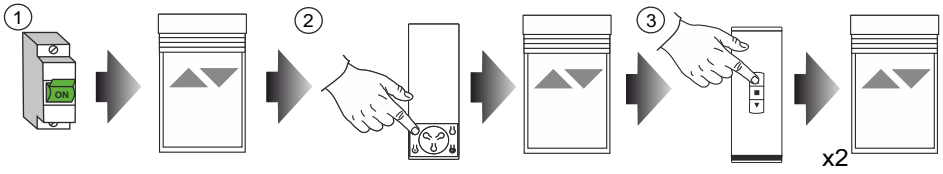
Completion of the manual set-up of end limit positions.

6. Check correctness of the movement directions. In the case of inverted control outputs (directions), press and hold the STOP button for 3 seconds (confirmed with a short UP/DOWN movement).
7. UPPER end limit position:
   a. move until you reach the selected position
   b. press the P2 button (confirmed with a short UP/DOWN movement)
   c. press the UP button (confirmed with a short UP/DOWN movement)
8. LOWER end limit position:
   a. move until you reach the selected position
   b. press the P2 button (confirmed with a short UP/DOWN movement)
   c. Press the DOWN button (confirmed with a short UP/DOWN movement)
9. Press the P2 button 2 times to finish programming (confirmed with a short UP/DOWN movement after each press).



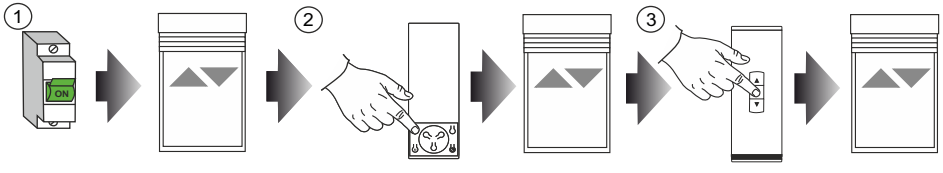
4. RESET OF SETTINGS:

1. Supply voltage to the motor (confirmed with a short UP/DOWN movement).
2. Press the P2 button (confirmed with a short UP/DOWN movement).
3. Press the UP button (confirmed with 2 short UP/DOWN movements), the motor gets completely reset and all assigned remote controls are listed.



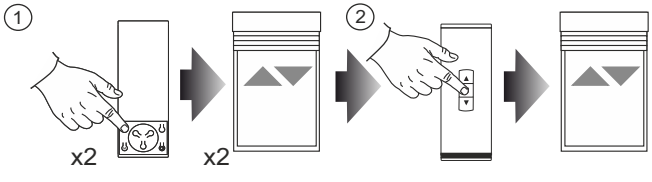
5. REPLACEMENT OF A LOST/NON-OPERATIONAL REMOTE CONTROL:

1. Supply voltage to the motor (confirmed with a short UP/DOWN movement)
2. Press the P2 button (confirmed with a short UP/DOWN movement)
3. Press the STOP button (confirmed with a short UP/DOWN movement), all remote controls will be listed and the currently used remote control will be programmed in the temporary mode.



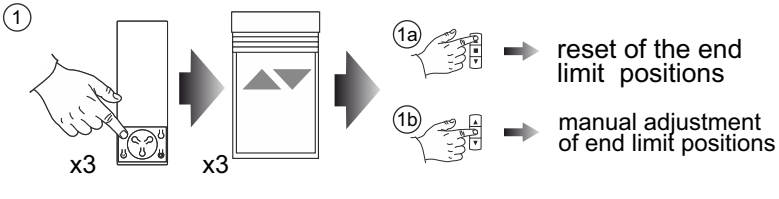
6. COPYING REMOTE CONTROLS:

1. Press the P2 button twice (confirmed with a short UP/DOWN movement after each press) on the channel, which you want to copy.
2. Press the STOP button (confirmed with a short UP/DOWN movement), on the target channel.



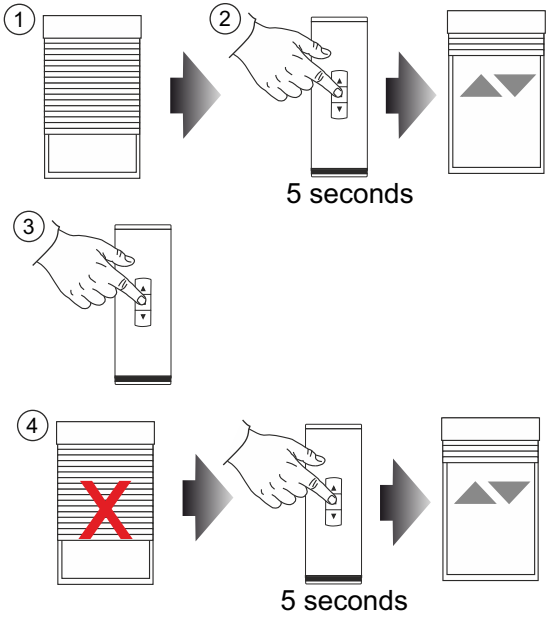
7. ADJUSTING THE END LIMIT POSITIONS:

1. Press the P2 button 3 times (confirmed with a short UP/DOWN movement after each press)
   a. the UP button → reset of end limit positions - the drive learns the process from the beginning
   b. the STOP button → manual adjustment of end limit positions (see point 3, sub-points 6,7,8,9)



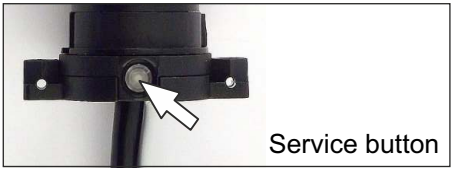
8. HALFWAY POSITION:

1. Set the roller shutter in the halfway position.
2. Press and hold the STOP button for 5 seconds (confirmed with a short UP/DOWN movement) (the halfway position has been memorised)
3. To call up the halfway position, press the STOP button of the stopped roller shutter.
4. To remove the halfway position setting, press and hold the STOP button for 5 seconds (confirmed with a short UP/DOWN movement), having earlier stopped the roller shutter in the programmed position.



9. SERVICE BUTTON FUNCTIONALITIES:

1. Holding for 2s → assigning/removing remote controls with the STOP button
2. Holding for 5s → reset of the end limit positions
3. Holding for 10s → total reset (confirmed with two short UP/DOWN movements)
4. Holding for 15s → exit with no action made (confirmed with three short UP/DOWN movements)



10. ADDING MOTOR TO THE TR7 CONTROL UNIT:

1. After logging into the control unit, select “Channels” from the lower menu.
2. Press the "+” button in the right upper corner of the display screen.
3. Press the “Search” button. The control unit will start searching for motors and other devices which will be displayed on the list.

NOTE: If the motors fail to appear on the list of devices, this means that they have been switched off for too long and the drives have ceased to send identification signals. By activating the drive via a remote control or button, or by switching the drive off and connecting it to power supply again, you will be able to find the motor again on the list.

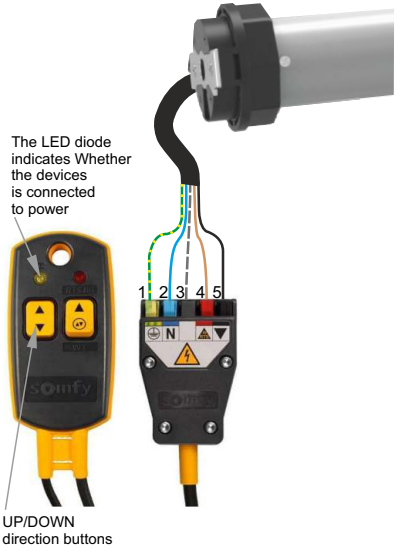
NOTE: If the drive has already been assigned to another control unit and has not been properly removed therefrom, it is necessary to reset the drive in order to assign it to another control unit.

4. Press the "+” button next to the found drive. The motor will be added to the control unit.
5. The menu of options of a given drive appears. In the tab “Channels”, you can assign names to roller shutters, which will facilitate their identification (e.g. Living Room 1). The change of name shall be finished by pressing the “SAVE” button.

11. RESET OF THE MOTOR AND END LIMIT POSITIONS FROM THE BUTTON LEVEL:

1. Once voltage is supplied, you need to wait for the first UP/DOWN movement.
2. Next press and hold the button (for about 1-2 seconds after the first UP/DOWN movement - if the button is pressed before the first movement or during the movement, the function will not be activated - protection against the installation of non-rebouncing buttons):
   - UP - motor reset
   - DOWN - reset of the end limit positions
3. Holding the selected button, wait until the motor makes another UP/DOWN movement.
4. Once the second UP/DOWN movement is made, within 3 seconds release the button you hold:
   - Reset of the drive (confirmed with two short UP/DOWN movements).
   - Press the reset of the end limit positions (confirmed with a short UP/DOWN movement).

NOTE: If between the first and second UP/DOWN motor movement, the selected button is released, then no function is activated.



1 = PE (Protective Earth) wire (**yellow-green**)
2 = N - neutral wire (**blue**)
3 = L1 - Live (hot/phase) wire (**white**)
4 = DOWN (**brown**)
5 = UP (**black**)

NOTE: If the user wants to refrain from the reset, then after the second UP/DOWN movement, hold the selected button for 4 to 5 seconds - exit with no action made.

12. LOOSENING AND TIGHTENING ADJUSTMENT OF THE CURTAIN PROFILE WITH A REMOTE CONTROL:

NOTE: During the range setting, each time the UP/DOWN button is pressed on the remote control, the operation is confirmed with a short UP/ DOWN movement of the motor. End limit of adjustment range is signalled with a longer UP/DOWN

Entry into adjustment mode: LOOSENING

1. Press the P2 button on the remote control, on the channel assigned to the drive (confirmed with a short UP/DOWN movement).
2. Press the UP button (confirmed with a short UP/ DOWN movement). The motor switches to the loosening adjustment mode of the curtain profile at the top of the roller shutter.

   Change the position where the roller shutter stops at the top with UP/DOWN buttons:

   - for the SSR-BIDI-60 motor - range: from -50 to 50 (steps of 10)
   - for the SSR-BIDI-40 motor - range: from -50 to 50 (steps of 10)

3. Press the STOP button (confirmed with a short UP/DOWN movement). Loosening settings are saved.

Entry into adjustment mode: TIGHTENING

1. Press the P2 button on the remote control, on the channel assigned to the drive (confirmed with a short UP/DOWN movement).
2. Press the DOWN button (confirmed with a short UP/DOWN movement). The motor switches to the tightening adjustment mode of the curtain profile at the bottom of the roller shutter.

Change the position where the roller shutter stops at the bottom with UP/DOWN buttons:

- for the SSR-BIDI-60 motor - range: from -50 to 50 (steps of 10)
- for the SSR-BIDI-40 motor - range: from -50 to 50 (steps of 10)

3. Press the STOP button (confirmed with a short UP/ DOWN movement). Tightening settings are saved.