Nice

BiDi-MiniShutter

Interior bidirectional interface for tubular motor

EN - Instructions and warnings for installation and use

v1.0

1 WARNINGS AND GENERAL PRECAUTIONS

- **This manual contains important instructions and warnings for personal safety.** Carefully read all parts of this manual. If in doubt, suspend installation immediately and contact the Nice Technical Assistance.
- **All installation and connection operations must be performed exclusively by suitably qualified and skilled personnel with the unit disconnected from the mains power supply.**
- **Any use other than that specified herein or in environmental conditions other than those stated in this manual is to be considered improper and is strictly forbidden!**
- This product can only be used indoors or protected from weather conditions by a control unit housing.
- The products packaging materials must be disposed of in full compliance with local regulations.
- Don't open the device protection housing as it contains non-serviceable electrical circuits.
- Never modify any parts of the device. Operations other than those specified can only cause malfunctions. The manufacturer declines all liability for damage caused by makeshift modifications to the product.
- Never place the device near the sources of heat and never expose it to naked flames. These actions can damage the product and cause malfunctions.
- This product isn't intended for use by people with reduced physical, sensory or mental capabilities (including children) or who lack experience and knowledge, unless they have been supervised or instructed to use the product by a person responsible for their safety.
- Make sure that children don't play with the product.
- Check the warnings in the instruction manual for the motor that the product is conneacted to.
- Handle the product with care, don't crush, knock or drop it to avoid damage.

2 PRODUCT DESCRIPTION

The BiDi-MiniShutter control unit enables the control of a mains-powered, single-phase asynchronous motor, with Down, Common, Up connection types. The BiDi-MiniShutter is used for the automation of devices such as awnings, rolling shutters or Venetian blinds.

The Bidi-MiniShutter has a smaller housing enabling installation of the device in flush-mounted boxes with depth of 40 mm. Thanks to small size installation in traditional flush-mounted boxes is easier as well. Additionally, the time of instalation is shortened because of spring terminals, which make wiring easier, and the second N connector, which reduces the number of WAGO connectors needed.

The BiDi-MiniShutter control unit incorporates a radio transceiver operating at the frequency of 433.05 – 434.04 MHz with rolling code technology to guarantee optimal safety levels. Each control unit can memorise up to 30 mono or bidirectional transmitters in the series ERA, ERGO, FLOR, NICEWAY, DOMI, MyGO and VERY, enabling the remote control of the unit.The control unit has two inputs for controlling the unit with external pushbuttons.

The BiDi-MiniShutter has a built-in menu enabling basic configuration of the device. Memorisation and programming is done with programming pushbutton on the housing. The user is guided through the various phases with LED signals.

The device can be controlled with hubs supporting Nice protocol. The BiDi-MiniShutter can also be controlled with remote control, climatic sensor or wall buttons without the need to connect the device to the hub.

The control unit has overload and overheating protection, which disables the relays and prevents damage to the circuit.

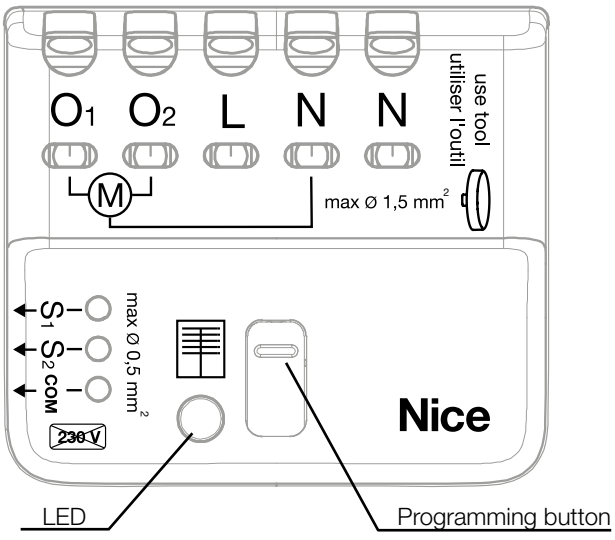


Figure 1: Localization of programming button and LED

3 TECHNICAL SPECIFICATIONS

BiDi-MiniShutter is produced by Nice S.p.A. (TV).

Note
All technical specifications stated in this section refer to an ambient temperature of 20 °C (± 5 °C). Nice S.p.A. reserves the right to modify the product when necessary, while maintaining the same functionalities and intended use.

Table 1 - BiDi-MiniShutter - Specifications

Parameter	Information
Type	In-wall/flush box mounted control unit for tubular motors
Power supply	100—240 V AC, 50/60 Hz
Motor rated current	1.8—2A
Motor rated power	• 480 VA for Vn = 240 V • 460 VA for Vn = 230 V • 240 VA for Vn = 120 V • 200 VA for Vn = 100 V
Required circuit breaker	• Compliant with IEC/EN 60898-1 • Curve code: B • Rated current: up to 16 A • Breaking capacity: 6 kA • Rated insulation voltage: 500 V • Rated impulse withstand voltage: 4 kV
Casing protection rating	IP 20
Operating temperature	0—35 °C
Dimensions (mm)	35,6 x 40,5 x 14,5
Weight	18 g
Standby power consumption	0.42 W - according to EU Regulation 2023/826

Table 2 - BiDi-MiniShutter - Radio transceiver

Parameter	Information
Frequency band	433.05—434.04 MHz
Code	OPERA/FLOR (rolling code), PLN2+ (rolling code)
No. of memorisable transmitters	30, including climatic sensors
Transceiver range	Estimated at 150 m in open space and 20 m inside buildings (*)
Max. transmit power	10 dBm

(*) The transceiver range is strongly influenced by other devices operating at the same frequency with continuous transmission, such as alarms and radio headphones which interfere with the control unit transceiver.

4 INSTALLATION

4.1 - Safety notes ⚠ ⚠

- The product is subject to hazardous electric voltages.
- The installation of the BiDi-MiniShutter and automations must be performed exclusively by technically qualified personnel, in observance of current legislation and standards, and according to these instructions. All connections must be made with the system disconnected from the power supply.
- The BiDi-MiniShutter control unit was designed for insertion in a junction box or wall box; its housing doesn't have any protection against water and only has basic protection against contact with solid parts. Never place the BiDi-MiniShutter in inadequately protected environments.
- Never open or perforate the BiDi-MiniShutter housing. These actions are subject to hazardous electric voltages.
- The power supply line must be protected by suitable (compliant with IEC/EN 60898-1 standard, rated up to 16A) magneto-thermal and residual-current circuit breakers.
- A disconnection device must be inserted in the power supply line of the electrical mains or equivalent system, for example an outlet and relative plug. The distance between the contacts must be at least 3 mm with an overvoltage category of III. If the disconnection device for the power supply isn't mounted near the automation, it must have a locking system to prevent unintentional, unauthorized connection.

4.2 - Electrical connections

Carefully follow all the connection instructions.

If you have any questions, concerns or need additional product knowledge, visit the website: www.niceforyou.com, where you can find all the current technical data.

Incorrect connection can be dangerous and cause damage to the system.

⚠ CAUTION! – Risk of electric shock!

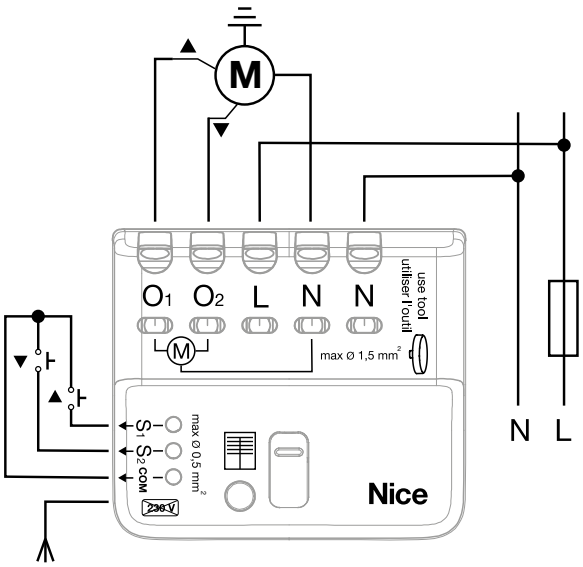


Figure 2: Wiring diagram of BiDi-MiniShutter

4.3 - Motor connection

The single phase asynchronous motor must be connetced to the mains through terminals O1-N-O2 (Up, Neutral, Down). Up corresponds to the key ▲ of the transmitters and S1 pushbutton, Down to the ▼ key and S2 pushbutton. After connecting, if the direction of motor rotation is incorrect, exchange the connections of terminals O1 and O2.

⚠ CAUTION!

Never connect more than one motor per control unit!

4.4 - Power supply

The electric power supply of the control unit must be connected through terminals L and N (Live, Neutral). The BiDi-MiniShutter control unit can operate with supply voltage of 100 to 240 V and frequency of 50 or 60 Hz.

4.5 - Pushbuttons

If required, external, momentary pushbuttons can be connected to terminals S1 and S2, which can control the unit directly. The pushbuttons are connected between common (COMM) terminal and terminals S1 and S2 as shown in Figure 2. The pushbutton connected to S1 is responsible for Up movement, and the pushbutton connected to S2 is responsible for the Down movement.

⚠ CAUTION!

The pushbuttons carry mains voltage and must therefore be protected and insulated adequately.

4.6 - Antenna

We recommend to place the antenna as straight and as far from the power wires as possible.

4.7 - Inserting and removing wires

You can use a YDY (solid) or OMY (flexible) wire with the cross-section of 0,5—1,5 mm^2. Insulation length should be 8—12 mm

Table 3 - BiDi-MiniShutter - Inserting wires into power terminal

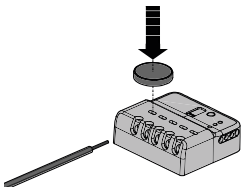
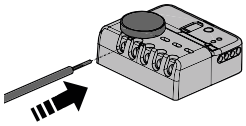
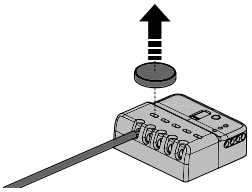
Nº	Description	Example
1.	Press the pin of an appropriate terminal with the included tool.	
2.	Insert the wire into the appropriate terminal as deep as possible.	
3.	Remove the tool. Make sure the wire is locked in the place.	

Table 4 - BiDi-MiniShutter - Removing wires from power terminal

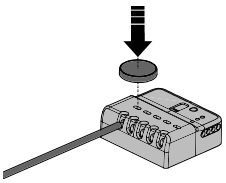
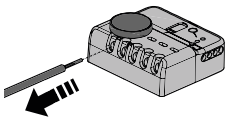
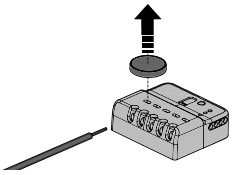
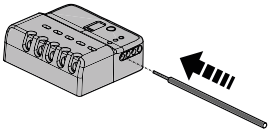
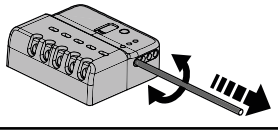
Nº	Description	Example
1.	Press the pin of an appropriate terminal with the included tool.	
2.	Pull the wire.	
3.	Remove the tool.	

Table 5 - BiDi-MiniShutter - S1, S2, and COMM pushbuttons terminals - inserting and removing wires

Activity	Description	Example
Inserting the wire	Insert the wire into the appropriate terminal as deep as possible making sure the wire is locked in the place.	
Removing the wire	Pull the wire while rotating it sideways.	

Note

Wires dedicated for the pushbuttons are included in the set.

5 BUILT-IN MENU

5.1 - Programming menu

You can enter the menu by pressing the pushbutton for 3 seconds. The subsequent menu positions are displayed every three seconds. The selection of the indicated menu position occurs after releasing the button. The subsequent menu positions are listed in the table below.

Table 6 - BiDi-MiniShutter - Menu positions when holding programming pushbutton

Nº	Color	Description
1.	Red	Memorization in Mode I
2.	Orange	Memorization in Mode II
3.	Blue	Calibration
4.	Green	Response to Wind ON command. For more information, see Table 25 - BiDi-MiniShutter - Setting response to Wind ON command in Shutter Mode
5.	White	Partial position settings
6.	Violet	Stopping with pushbuttons settings
7.	Cyan	Venetian blinds and Awning mode
8.	Yellow	Reset

5.2 - Other signals

Table 7 - BiDi-MiniShutter - Other LED signals

Color	Description
2 red flashes	Control unit initialized properly
3 red flashes	Transmitter memorized in Mode I
3 orange flashes	Transmitter memorized in Mode II
6 red flashes	Memory for transmitters full (Mode I)
6 orange flashes	Memory for transmitters full (Mode II)
3 yellow flashes	Transmitter deleted from memory
5 yellow flashes	Control unit restored to factory settings
2 green flashes at power up	Device has memorized transmitters

6 MEMORISING TRANSMITTERS

- The ■ key corresponds to the central key of the ERA, ERGO, FLOR, NICEWAY, DOMI, MyGO and VERY transmitters.
- All memorisation sequences are timed. They need to be completed within the set time limits.
- With transmitters that envisage several groups, the group to associate with the control unit needs to be selected before proceeding.
- Settings with a radio are possible on all receivers located within the operating radius of the transmitter, and therefore only the device required for the operation should remain powered.

6.1 - Mode I

In Mode I memorisation procedures is used to control a single automation with 3 keys of transmitters. The command associated with the transmitter keys is fixed, for more information see Table 8.

In Mode I one memorisation phase is performed for each transmitter and one memory location is occupied. During memorisation in Mode I it's not important which key is pressed on the transmitter.

When memory is empty after powering the device up, the red LED flashes two times.

When any transmitters are in the device memory, the LED blinks green two times.

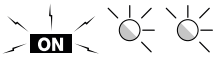
Table 8 - BiDi-MiniShutter - Memorisation using Mode I

Key	Command
The ▲ key or the 1st channel	Up
The ■ key or the 2nd channel	Stop
The ▼ key or the 3rd channel	Down

6.2 - Memorising transmitters in Mode I

When there is no transmitter memorised, the first one can be memorised during a startup phase according to the procedure presented in the table below.

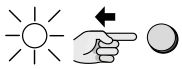
Table 9 - BiDi-MiniShutter - Memorising first transmitter during startup in Mode I

Nº	Description	Example
1.	Connect the control unit to the power mains, which is confirmed by 2 red LED flashes.	
2.	Within 10 seconds: • **Monodirectional transmitters:** press and hold any key of the transmitter for at least 3 seconds to be memorized. • **Bidirectional transmitters:** press any key of the transmitter to be memorized.	Mono:  BiDi: 
3.	If the memorisation procedure is successful, the LED emits 3 red flashes.	

If no transmitters are memorized during a startup phase, the programming procedure ends automatically after 10 seconds and the LED emits one long red flash.

The transmitters can be memorised using the programming pushbutton according to the following procedure presented in the table below.

Table 10 - BiDi-MiniShutter - Memorising first and other transmitters in Mode I

Nº	Description	Example
1.	Press and hold the programming pushbutton.	
2.	Release the programming pushbutton when the LED glows **red** (the 1st position).	
3.	Within 10 seconds: • **Monodirectional transmitters:** press and hold any key of the transmitter for at least 3 seconds to be memorized. • **Bidirectional transmitters:** press any key of the transmitter to be memorized.	Mono:  BiDi: 
4.	If the memorisation procedure is successful, the LED emits 3 red flashes.	
5.	Repeat steps 3 and 4 to acquire all the remotes.	
6.	If the device doesn't receive any signal for 10 seconds, the programming procedure ends automatically.	

6.3 - Mode II

In Mode II each key of the transmitter can be associated with one of 10 possible commands. For more information, see Table 11. For example, one automation can be controlled with just one key memorised for the Step-by-step command, while the other keys are left free to control other automations. In Mode II one memorisation phase is performed for each key and each occupies one location in the memory. During Mode II memorisation the key which is pressed is memorised. If another key is to be assigned to a command on the same transmitter, a new memorisation phase needs to be performed for that specific key.

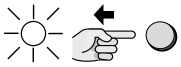
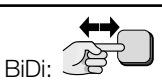
Table 11 - BiDi-MiniShutter - Memorisation in Mode II

Nº	Command
1.	Step-by-step (Up-Stop-Down-Stop...)
2.	Go to position level 5%
3.	Go to position level 25%
4.	Go to position level 50%
5.	Go to position level 75%
6.	Up
7.	Down
8.	Stop
9.	“Hold-to-run” Down*
10.	“Hold-to-run” Up*

Note

* “Hold-to-run” command isn't available in some transmitters.

Table 12 - BiDi-MiniShutter - Memorising first and other transmitters in Mode II

Nº	Description	Example
1.	Press and hold the programming pushbutton.	
2.	Release the programming pushbutton when the LED glows with **orange** (2nd position).	
3.	Press the programming pushbutton the number of times required for the particular command: **1** = Step-by-Step, **2** = go to position level 5%, **3** = go to position level 25%, **4** = go to position level 50%, **5** = go to position level 75%, **6** = Up, **7** = Down, **8** = Stop, **9** = Hold-to-run Down, **10** = Hold-to-run Up.	
4.	Make sure that the LED emits the number of long orange flashes corresponding to the required command.	
5.	Within 10 seconds: • **Monodirectional transmitters:** press and hold any key of the transmitter for at least 3 seconds to be memorized. • **Bidirectional transmitters:** press any key of the transmitter to be memorized.	 
6.	If the memorisation procedure is successful, the LED emits 3 orange flashes.	
7.	Repeat steps 5 and 6 to acquire all the remotes with the same command.	
8.	Repeat steps 3 to 6 to acquire all the remotes with another command.	
9.	If the device doesn’t receive any signal for 10 seconds, the programming procedure ends automatically.	

Note
If the memory is full (30 transmitters memorised) 6 red flashes are emitted and the transmitter can't be memorised.

6.4 - Memorising a new transmitter using the enabling code of an already memorised transmitter

The monodirectional transmitter has an enabling code. By transferring this code from a memorized transmitter to a new transmitter, the latter is recognized and memorized automatically by the control unit. Please refer to the manual of the transmitters for further details.

Note
The enabling code can only be transferred between two transmitters that have the same radio coding.

6.5 - Memorizing new transmitter using the 8-3-1 method of alredy memorised transmitter

The monodirectional transmitters can copy devices stored in their memory. For more information, see the manual of the transmitters.

To memorize a new transmitter:

1. **On the new transmitter:** hold down the stop button (key 2) for 8 seconds, then release it. The motor doesn't perform any maneuver.
2. **On the old transmitter:** press any button 3 times, even if it has already been programmed. The motor starts the maneuver assigned to that button.
3. **On the new transmitter:** press the stop button (key 2) once to complete the procedure.

Note
This method can only be transferred between two transmitters with the same radio coding.

7 SETTINGS

7.1 - Calibration

During the calibration process the device learns the position of the Up and Down limit positions. The calibration can be performed automatically or manually.
During the automatic calibration the motor performs the Up, Down and Up movements to recognize the limit positions.
During the manual calibration limit positions need to be saved manually while the motor performs the Up and Down movements.

Note

- If the automatic calibration didn't recognize properly the limit positions, perform the manual calibration instead.
- Before the calibration, set the shutter to the middle position.
- There is a fixed operation time of 240 s when module isn't calibrated.

To perform automatic calibration, follow the steps from the table below.

Tabla 13 - BiDi-MiniShutter - Automatic calibration

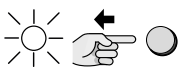
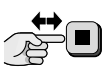
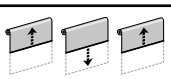
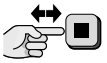
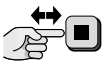
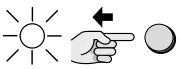
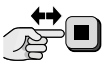
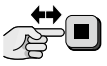
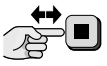
Nº	Description	Example
1.	Press and hold the programming pushbutton.	
2.	Release the programming pushbutton when the LED glows with **blue** (the 3rd position).	
3.	Press the ■ key (or the second channel) of the transmitter.	
4.	The motor completes Up, Down and Up movements automatically. The programming procedure ends automatically after finishing two complete movements.	

Table 14 - BiDi-MiniShutter - Manual calibration after factory reset		
Nº	**Description**	**Example**
1.	Press the ▲ key (or the 1st channel) of the transmitter to start calibration. Device starts the Up movement.	
2.	Press the ■ key (or the 2nd channel) to stop the motor and set up a limit position.	
3.	Press the key ▼ (or the 3rd channel) to start the downward movement of the motor	
4.	During the downward movement press the ■ key (or the 2nd channel) of the transmitter to set the Down limit position.	

Note
The minimum time of movement of the roller shutter in a single direction must be more than 6 seconds.

Perform manual calibration only when automatic doesn't work.
Manual calibration can be performed from entring the device menu or after factory reset when user performs two full manoeuvres.

Table 15 - BiDi-MiniShutter - Manual calibration		
Nº	**Description**	**Example**
1.	Press and hold the programming pushbutton.	
2.	Release the programming pushbutton when the LED glows with **blue** (the 3rd position).	
3.	Press the ▲ key (or the 1st channel) of the transmitter to start calibration. Device starts the Up movement.	
4.	Press the ■ key (or the 2nd channel) to stop the motor and set up a limit position.	
5.	Press the key ▼ (or the 3rd channel) to start the downward movement of the motor	
6.	During the downward movement press the ■ key (or the 2nd channel) of the transmitter to set the Down limit position.	
7.	Press the ▲ key (or the 1st channel) to start upward movement of the motor again.	
8.	During the upward movement press the ■ key (or the 2nd channel) of the transmitter to set the Down limit position. With this step the programming procedure concludes automatically	

Note
During calibration process the interface measures the working time.

7.2 - Partial positions

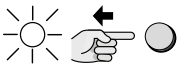
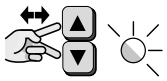
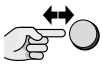
The BiDi-MiniShutter control unit enables setting the quick-access partial positions. The partial positions only work with transmitters memorised in mode I.

Table 16 - BiDi-MiniShutter - Available partial positions		
Nº	**Press at the same time to activate**	**Default position**
1.	• The ▲ and ▼ keys • The 1st and the 3rd channels • Double-click of S1 or S2	50% of the working time
2.	• The ▲ and ■ keys • The 1st and the 2nd channels • Triple-click of S1 or S2	15% of the working time

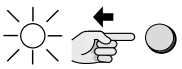
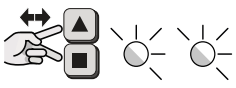
Note

- You need to perform the calibration procedure for the partial positions to work correctly. For more information see chapter 7.1.
- If the Venetian blind mode is activated, the Venetian blinds stop at 15% and the slats are rotated by 10% by default. The 2nd partial position changes operation. For more information on Venetian blind activation, see chapter 7.5.
- If the Venetian blinds mode is disabled, the shutter stops at 15% (the 2nd partial position) by default.
- The partial positions work if the calibration was performed.
- Pressing S1 and S2 at the same time might not be possible for some types of pushbuttons/switches.

To set a new position for the 1st partial position, follow the steps from the table below.

Table 17 - BiDi-MiniShutter - Setting 1st partial position		
Nº	**Description**	**Example**
1.	Press and hold the programming pushbutton.	
2.	Release the programming pushbutton when the LED glows with **white** (the 5th position).	
3.	Press the ▲ and ▼ keys or the 1st and the 3rd channels at the same time. Alternatively, quickly double-click the same key (UP or DOWN) on external pushbuttons. The LED confirms the action with one white flash.	
4.	Bring the shutter/blind/awning at your desired partial position.	
5.	Save and end the programming by pushing the programming pushbutton.	

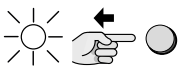
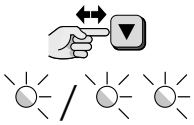
To set a new position for the 2nd partial position, follow the steps from the table below.

Table 18 - BiDi-MiniShutter - Setting 2nd partial position		
Nº	**Description**	**Example**
1.	Press and hold the programming pushbutton.	
2.	Release the programming pushbutton when the LED glows with **white** (the 5th position).	
3.	Press the ▲ and ■ keys or the 1st and the 2nd channels at the same time. Alternatively, quickly triple-click the same key (UP or STOP) on external pushbuttons. The LED confirms the action with two white flashes.	
4.	Bring the shutter/blind/awning at your desired partial position.	
5.	Save and end the programming by pushing the programming pushbutton.	

7.3 - Virtual Limit Switch

If needed, you can set a virtual limit switch and limit the shutter/blind/awning movement to the specified position (range).

Table 19 - BiDi-MiniShutter - Setting virtual limit switch

Nº	Description	Example
1.	Press and hold the programming pushbutton.	
2.	Release the programming pushbutton when the LED glows with **blue** (the 3rd position).	
3.	Press the ▼ key (or the 3rd channel) of the transmitter: • if the LED confirms with one blue flash, the procedure is active. • if the LED confirms with two blue flashes, the procedure is canceled because the roller shutter wasn't calibrated before.	
4.	Bring the shutter/awning to the desired position (virtual limit switch) using on-wall pushbuttons or transmitter.	
5.	Save the programming by pushing the programming pushbutton: • single click – save the top limit switch. • double click – save the bottom limit switch	
6.	After the motor makes a move between the virtual and mechanical limit switch, the programming procedure ends automatically.	

7.4 - Wired pushbutton programming

The pushbuttons connected to the S1 (Up) and S2 (Down) inputs can be programmed in the following ways:

- **Go to the limit position** – Press the pushbutton to move the motor to the programmed limit position.
- **Hold to run** – Press and hold the pushbutton to move the motor, then release it to stop the motor at the desired position.

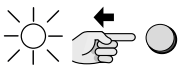
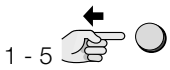
If the wired pushbuttons are programmed as **Go to the limit position**, you can choose how the motor is stopped:

- Pressing both pushbuttons together
- Pressing the pushbutton for the same direction that the shutter/awning moves
- Pressing the pushbutton for the opposite direction that the shutter/awning moves

By default, the motor stops when you press the pushbutton for the opposite direction.

To select the stopping action, follow the steps from the table below.

Table 20 - BiDi-MiniShutter - Setting wired pushbutton

Nº	Description	Example
1.	Press and hold the programming pushbutton.	
2.	Release the programming pushbutton when the LED glows with **violet** (the 6th position).	
3.	Press the programming pushbutton the number of times required for the particular command: • 1 = press both pushbuttons together to stop the motor • 2 = press the pushbutton for the same direction to stop the motor • 3 = press the pushbutton for the opposite direction to stop the motor • 4 = pushbuttons work as Hold to run • 5 = step by step way of operation	
4.	Check that the LED emits the number of violet flashes corresponding to the required command.	
5.	The programming procedure ends automatically.	

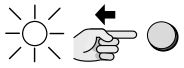
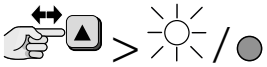
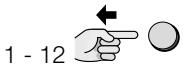
7.5 - Venetian blind and Awning Mode

The BiDi-MiniShutter control unit enables the control of slats for Venetian blinds. When the Venetian blinds control is enabled, pressing the ▲ key / S1 or the ▼ /S2 moves the slats by 10%. The normal Up and Down movement needs to be performed by pressing and holding the corresponding keys. Time of full slats movement **needs to be adjusted for the function to work properly.** By default, the Venetian blinds function is disabled and the full movement time is set to 1.5 s.

Note
When the Awning Mode control is enabled, it represents behaviour of BiDi Awning – especially the reacions to Climatic Sensor alarms.

To enable or disable the Venetian blinds control and set the slats movement time, follow the steps from the table below.

Table 21 - BiDi-MiniShutter - Setting Venetian blinds and Awning mode behavior

Nº	Description	Example
1.	Press and hold the programming pushbutton.	
2.	Release the programming pushbutton when the LED glows with **cyan** (the 7th position - setting up the Venetian Blinds Mode).	
3.	Press the ▲ key (or the 1st channel) of the transmitter to toggle the setting. The LED informs about the current setting: • Fixed red – BiDi-MiniShutter default mode enabled • Fixed cyan – Venetian blinds control enabled • Fixed green – Awning Mode control enabled	
4.	**Only for Venetian Behaviour** Time periods listed below correspond to full slats movement. With every single press on a transmitter or pushbutton you select a particular time period. One second full rotation time means 100 milliseconds every time single press is made. Press the pushbutton the number of times depending on the required full rotation slats time: • 1 = 250 ms • 2 = 500 ms • 3 = 750 ms • 4 = 1 s • 5 =1.25 s • 6 = 1.5 s • 7 = 1.75 s • 8 = 2 s • 9 = 2.25 s • 10 = 2.5 s • 11 = 2.75 s • 12 = 3 s	
5.	Make sure the LED emits the number of cyan flashes corresponding to the required time.	
6.	If the device doesn't receive any signal for 10 seconds, the programming procedure ends automatically.	

7.6 - Climatic sensors

The control unit supports Nice radio mono and bidirectional climatic sensors. Memorisation of a climatic sensor must be carried out like that of a normal transmitter. For more information see Table 7. Thresholds for commands must be programmed on the climatic sensor.

Commands connected to wind are given priority, followed by the rain and sun commands. Please refer to the manual of the climatic sensor for further details.

Reactions to the sun or rain can be turned activated/deactivated using the Sun ON/OFF button. The reactions are activated by default.

Note
- 60 minutes timeout of alarm condition is set when the climatic sensor is missing.
- Disable alarm condition - Within 60 seconds, movement attempt is performed twice. Four small movements are visible and the motor is unlocked.

Table 22 - BiDi-MiniShutter - Shutter, Awning and Venetian Blinds mode - Wind / No wind				
Nº	**Wind status**	**Shutter mode**	**Awning mode**	**Venetian blinds mode**
1.	WIND	Up (default) / Down	Up & Lock	Up & Lock
2.	NO WIND	No activity	Unlock	Unlock

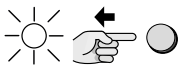
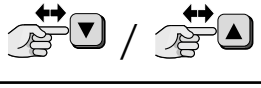
Note

- Wind ON Override - The emergency overrides the wind blockade if the climate sensor isn't available. Small movements indicate the LOCK status. A new movement within one minute deactivates the LOCK status.
- Wind Timeout - In MONO protocol the device is deactivated after a certain time of sensor inactivity Deactivation happens after 1 hour from the last WIND trigger. The device exits the WIND status without receiving the NO WIND status from the climate sensor as well.

Table 23 - BiDi-MiniShutter - Shutter, Awning and Venetian Blinds mode - Sun / No sun				
Nº	**Sun status**	**Shutter mode**	**Awning mode**	**Venetian blinds mode**
1.	SUN	PARTIAL POSITION	Down	PARTIAL POSITION
2.	NO SUN	No activity	Up	No activity

Note
Sun Override Condition - The SUN command is overridden when the actuator is in the SUN status after a sensor event. If the user presses Up (the blinds go up), subsequent SUN events are ignored until the next day - for MONO and BIDI.

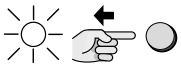
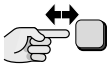
Table 24 - BiDi-MiniShutter - Shutter, Awning and Venetian Blinds mode - Rain / No rain				
Nº	**Rain status**	**Shutter mode**	**Awning mode**	**Venetian blinds mode**
1.	RAIN	Down	Up	Down
2.	NO RAIN	No activity	No activity	No activity

Table 25 - BiDi-MiniShutter - Setting response to Wind ON command in Shutter Mode		
Nº	**Description**	**Example**
1.	Press and hold the programming pushbutton.	
2.	Release the programming pushbutton when the LED glows with **green** (the 4th position).	
3.	Press the key of the transmitter to select a response to the Wind ON command: • the ▲ key or the 1st channel - go to the Up position (default) • the ▼ key or the 3rd channel - go to the Down position	
4.	Currently set response to the Wind ON command is confirmed with LED flashes: • LED emits 2 green flashes. - Go to the Down position • LED emits 4 green flashes. - Go to the Up position	 2/4
5.	If the device doesn't receive any signal for 10 seconds, the programming procedure ends automatically.	

7.7 - Deleting transmitters

If memorised transmitters and settings need to be deleted, follow the steps from the table below.

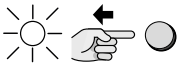
Table 26 - BiDi-MiniShutter - Deleting individual transmitters from memory

Nº	Description	Example
1.	Press and hold the programming pushbutton.	
2.	Release the programming pushbutton when the LED glows with **yellow** (the 8th position).	
3.	Press any key on the acquired transmitter to remove it from memory.	
4.	LED emits 3 yellow flashes to confirm the correct removal.	
5.	If the device doesn't receive any signal for 10 seconds, the programming procedure ends automatically.	

7.8 - Factory reset

Factory reset deletes all transmitters and setting. If the control unit needs to be reset to the factory settings, follow the steps from the table below.

Table 27 - BiDi-MiniShutter - Restoring to factory defaults

Nº	Description	Example
1.	Press and hold the programming pushbutton.	
2.	Release the programming pushbutton when the LED glows with **yellow** (the 8th position).	
3.	Press the programming pushbutton.	
4.	LED emits 5 yellow flashes to confirm the correct reset.	
5.	The programming procedure ends automatically. Afterwards, the control unit initiates the start-up procedure according to Table 9.	

8 PRODUCT DISPOSAL

This product is an integral part of the automation and therefore must be disposed together with the latter. At the end of the product lifetime, the disassembly and scrapping operations must be performed by qualified personnel.
This product is made of various types of material, some of which can be recycled while others must be scrapped. Seek information on the recycling and disposal systems envisaged by the local regulations in your area for this product category.

As indicated by the symbol alongside, disposal of this product in domestic waste is strictly prohibited. Separate the waste into categories for disposal, according to the methods envisaged by current legislation in your area, or return the product to the retailer when purchasing a new version.

⚠ CAUTION!

- Some parts of the product may contain pollutant or hazardous substances which, if disposed of into the environment, may cause serious damage to the environment or physical health.
- Local legislation may envisage serious fines in the event of abusive disposal of this product.

9 DECLARATION OF CONFORMITY

Nice S.p.A. declares that the radio equipment type BiDi-MiniShutter complies with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at: http://www.niceforyou.com/en/support.

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