

Roll and lamellas control

EN - Instructions and warnings for installation and use



WARNINGS AND GENERAL PRECAUTIONS

- CAUTION! 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.
- CAUTION! Important instructions: keep this manual in a safe place to enable future product maintenance and disposal procedures.
- CAUTION! All installation and connection operations must be performed exclusively by suitably qualified and skilled personnel with the unit disconnected from the mains power supply.
- CAUTION! 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!
- The product's packaging materials must be disposed of in full compliance with local regulations.
- Never apply modifications to any part of the device. Operations other than those specified may only cause malfunctions. The manufacturer declines all liability for damage caused by makeshift modifications to the product.
- Never place the device near to sources of heat and never expose to naked flames. These actions may damage the product and cause malfunctions.
- This product is not intended for use by people (including children) with reduced physical, sensory or mental capabilities or who lack experience and knowledge, unless they have been given supervision or instruction concerning the use of the product by a person responsible for their safety.
- Make sure that children do not play with the product.
- The device is designed to operate in electrical home installation. Faulty connection or use may result in fire or electric shock.
- Even when the device is turned off, voltage may be present at its terminals. Any maintenance introducing changes into the configuration of connections or the load must be always performed with disabled fuse.
- It is not recommended to operate all of the roller blinds simultaneously. For safety reasons, at least one roller blind should be controlled independently, providing safe escape route in case of emergency.

PRODUCT DESCRIPTION

Roll-Control is a device designed to control roller blinds, awnings, venetian blinds, gates and other single phase, AC powered devices. Roll-Control allows precise positioning of roller blinds or venetian blind lamellas. The device is equipped with power and energy monitoring. It

allows to control connected devices either via the Z-Wave™ network or via a switch connected directly to it.

Main features of Roll-Control:

- Compatible with any Z-Wave™ or Z-Wave Plus™ Controller,
- Supports Z-Wave network Security Modes: S0 with AES-128 encryption and S2 Authenticated with PRNG-based encryption,
- To be installed with roller blind motors with electronic or mechanical limit switches,
- Advanced microprocessor control,
- Active power and energy metering functionality,
- Works with various types of switches momentary, toggle and dedicated roller blind switches,
- To be installed in wall switch boxes.

Roll-Control is a fully compatible Z-Wave Plus™ device.

This device may be used with all devices certified with the Z-Wave Plus certificate and should be compatible with such devices produced by other manufacturers. All non-battery operated devices within the network will act as repeaters to increase reliability of the network. The device is a Security Enabled Z-Wave Plus product and a Security Enabled Z-Wave Controller must be used in order to fully utilize the product. The device supports Z-Wave network Security Modes: S0 with AES-128 encryption and S2 Authenticated with PRNG-based encryption.



INSTALLATION

AA

- The product is subject to hazardous electric voltages
- The installation of the Roll-Control 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.
- Never perforate the Roll-Control container!
- The power supply line must be protected by suitable magneto-thermal (rated up to 16A) and residual-current circuit breakers.
- Connecting the Roll-Control in a manner inconsistent with this manual may cause risk to health, life or material damage.
- Connect only in accordance with one of the diagrams,
- Do not connect DC powered motors, the device is dedicated to operate AC powered electric motors,
- Do not connect the device to loads exceeding recommended values,
- The device should be installed in a wall switch box compliant with a relevant national safety standards and with depth no less than 60mm,
- · Electrical switches used in installation should be compliant with the relevant safety standards,
- Length of wires used to connect the control switch should not exceed 20m,
- · Connect roller blind motors with electronic or mechanical limit switches only.

3.1 - Electrical connections

▲ Carefully follow all the connection instructions. If you have any doubts do not make experiments but consult the relevant technical specifications which are also available on the web site: www.niceforyou.com. Connecting the Roll-Control in a manner inconsistent with this manual may cause risk to health, life or material damage.

- Connect only in accordance with one of the diagrams,
- Do not connect DC powered motors, the device is dedicated to operate AC powered electric motors,
- Do not connect the device to loads exceeding recommended values,
- The device should be installed in a wall switch box compliant with a relevant national safety standards and with depth no less than 60mm,
- Electrical switches used in installation should be compliant with the relevant safety standards,
- Length of wires used to connect the control switch should not exceed 20m,
- Connect roller blind motors with electronic or mechanical limit switches only.

3.2 - Notes for the diagrams:

- S1 terminal for 1st switch (used to add/remove the device)
- S2 terminal for 2nd switch
- Q2 2nd output terminal for shutter motor
- Q1 1st output terminal for shutter motor
- L terminal for live lead
- N terminal for neutral lead
- B service button (used to add/remove the device and navigate the menu)

3.3 - Tips for arranging the antenna:

- Locate the antenna as far from metal elements as possible (connecting wires, bracket rings, etc.) in order to prevent interferences,
- Metal surfaces in the direct vicinity of the antenna (e.g. flush mounted metal boxes, metal door frames) may impair signal reception!
- Do not cut or shorten the antenna its length is perfectly matched to the band in which the system operates.
- Make sure no part of the antenna sticks out of the wall switch box.

3.4 - Installation with standard blinds:

- 1. Switch off the mains voltage (disable the fuse).
- 2. Open the wall switch box.
- 3. Connect with the following the diagram.
- 4. Verify if the device is connected correctly.
- 5. Arrange the device and its antenna in a wall switch box.
- 6. Close the wall switch box .
- 7. Switch on the mains voltage.





3.5 - Installation with blinds with built-in driver:

- 1. Switch off the mains voltage (disable the fuse).
- 2. Open the wall switch box.
- 3. Connect with the following the diagram.
- 4. Verify if the device is connected correctly.
- 5. Arrange the device and its antenna in a wall switch box.
- 6. Close the wall switch box .
- 7. Switch on the mains voltage.



3.6 - Installation with gate motors:

- Installation of the gate driver may be performed only by certified professionals.
- The motor must be equipped with the appropriate limit switches.
- It is recommended to connect a NC (normally closed) contact of an IR barrier to S2 terminal. Opening the contact will stop the gate.
- In addition, it is recommended to connect an emergency stop button to the motors neutral (N) wire. In emergency, pushing the emergency stop button will cut the power and stop the gate.
- 1. Switch off the mains voltage (disable the fuse).
- 2. Open the installation box.
- 3. Connect with the following the diagram:
- 4. Verify if the device is connected correctly.
- 5. Arrange the device and its antenna in the installation box.
- 6. Close the installation box.
- 7. Switch on the mains voltage.



Adding (Inclusion) - Z-Wave device learning mode, allowing to add the device to existing Z-Wave network.

4.1 - Using the manual method

To add the device to the Z-Wave network manually:

- 1. Power the device.
- 2. Identify the S1 switch.
- 3. Set the main controller in (Security/non-Security Mode) add mode (see the controller's manual).
- 4. Quickly, triple click the S1 switch.
- 5. If you are adding in Security S2 Authenticated, scan the DSK QR code or input the underlined 5-digit PIN code (label on the side of the box and on the device).
- 6. Wait for the adding process to end.
- 7. Successful adding will be confirmed by the Z-Wave controller's message.

4.2 - Using the SmartStart method

To add the device to the Z-Wave network using SmartStart:

- 1. Set the main controller in Security S2 Authenticated add mode (see the controller's manual).
- 2. Scan the DSK QR code or input the underlined 5-digit PIN code (label on the side of the box and on the device).
- 3. Power the device (turn on the mains voltage).
- 4. LED will start blinking yellow, wait for the adding process to end.
- 5. Successful adding will be confirmed by the Z-Wave controller's message.

Note. In case of problems with adding using the S1 switch, use B-button instead (located on the housing).

Note. SmartStart enabled products can be added to SmartStart enabled Z-Wave controller by scanning the Z-Wave QR Code present on the product. SmartStart product will be added automatically within 10 minutes of being switched on in the network range.

\overline{O} REMOVING THE DEVICE

Removing (Exclusion) - Z-Wave device learning mode, allowing to remove the device from existing Z-Wave network. Removing the device restores all the default parameters of the device, but does not reset power metering data.

To remove the device from the Z-Wave network:

- 1. Make sure the device is powered.
- 2. Identify the S1 switch.
- 3. Set the main controller in remove mode (see the controller's manual).
- 4. Quickly, triple click the S1 switch.
- 5. Wait for the removing process to end.
- 6. Successful removing will be confirmed by the Z-Wave controller's message.

Note. In case of problems with removing using the S1 switch, use B-button instead (located on the housing).

Note. If parameter 40 enables scenes for triple S1 click, disable it or use B-button instead to remove the device.

Note. If parameter 24 is set to 1, use S2 switch instead to remove the device.

POSITIONING CALIBRATION

- Calibration is a process during which a device learns the position of the limit switches and a motor characteristic.
- Calibration is mandatory in order for the device to correctly recognize a roller blind position.
- The procedure consists of an automatic, full movement between the limit switches (up, down, and up again).

Table A1 - Buttons description		
Symbol	Description	
	switch connected to the S1 terminal	
▼	switch connected to the S2 terminal	

6.1 - Standard roller blind positioning - Calibration using connected momentary switch

1. Make sure:

- the device is supplied,
- momentary switch is connected to S1 and S2 terminals,
- the device added to the Z-Wave network,
- parameter 151 is set to 1 or 2.
- 2. Press and hold \blacktriangle or $\mathbf{\nabla}$ switch for at least 3 seconds
- 3. Press and hold the same switch again for at least 3 seconds.
- 4. Press and hold the same switch again for at least 3 seconds.
- 5. The device will perform the calibration process, completing full cycle up, down and up again.
- 6. Test whether the positioning works correctly.

6.2 - Standard roller blind positioning - Calibration using the B-button

- 1. Make sure:
 - the device is supplied,
 - the device added to the Z-Wave network,
- parameter 151 is set to 1 or 2.
- 2. Press and hold the B-button.
- 3. Wait for the LED to glow white.
- 4. Quickly release and click the B-button again.
- 5. The device will perform the calibration process, completing full cycle up, down and up again
- 6. Test whether the positioning works correctly.

6.3 - Calibration using parameter

- 1. Make sure:
 - the device is supplied,
 - the device added to the Z-Wave network,
 - parameter 151 is set to 1 or 2.
- 2. Set the parameter 150 value to 2
- 3. The device will perform the calibration process, completing full cycle up, down and up again
- 4. The parameter 150 value will be set to 1 after calibration finishes.
- 5. Test whether the positioning works correctly.

6.4 - Slats positioning in venetian blinds mode - Calibration using connected momentary switch

- 1. Make sure:
 - the device is supplied,
 - momentary switch is connected to S1 and S2 terminals,
 - the device added to the Z-Wave network,
 - parameter 151 is set to 2,
 - blinds are calibrated.
- 2. By default, time of transition between extreme positions is set to 150 (1.5 seconds) in parameter 152.
- 3. Turn slats between extreme positions by holding \blacktriangle or \triangledown switch:
 - If after full cycle a blind starts moving up or down decrease value of parameter 152,
 - If after full cycle the slats does not reach end positions increase value of parameter 152,
- 4. Repeat previous step until satisfactory positioning is achieved.
- 5. Test whether the positioning works correctly. Correctly configured slats should not force the blinds to move up or down.

6.5 - Slats positioning in venetian blinds mode - Roller blind with built-in driver positioning

- 1. Make sure:
 - the device is supplied,
 - momentary switch is connected to S1 and S2 terminals,
 - the device added to the Z-Wave network,
 - parameter 151 is set to 5 or 6.
- 2. By default, time of transition between extreme positions is set to 600 (6 seconds) in parameters 155 and 156.
- 3. Move roller blinds between extreme positions by clicking \blacktriangle or \triangledown switch:
 - If roller blind stops before reaching top increase value of parameter 155,
 - If roller blind does not stop after reaching top decrease value of parameter 155,
 - If roller blind stops before reaching bottom increase value of parameter 156,
 - If roller blind does not stop after reaching bottom decrease value of parameter 156,
- 4. Repeat previous step until satisfactory positioning is achieved.
- 5. Test whether the positioning works correctly.

OPERATING ROLLER BLINDS

The device allows for connecting switch to the S1 and S2 terminals. These may be momentary (recommended) or toggle switches. Switch buttons are responsible for managing the blind's movement.

Table A2 - Switch types

Туре	Behavior
Momentary switch	After releasing the switch a spring automatically pushes back and disconnects the switch)
Toggle Switch	Operates as a two-position switch, it has no spring that would set one position of the switch.

7.1 - Using momentary switches:

Click \blacktriangle switch – initiate up movement.

Click $\mathbf{\nabla}$ switch – initiate down movement.

If the blind is moving, clicking any button, will stop the movement.

7.2 - Operating slats of venetian blinds

When operating venetian blinds it is possible to manage angle of the slats.

Hold \blacktriangle switch – initiate slats rotation up.

Hold $\mathbf{\nabla}$ switch – initiate slats rotation down.

7.3 - Using toggle switches:

Change \blacktriangle switch state – initiate up movement.

Change $\mathbf{\nabla}$ switch state – initiate down movement.

Choosing a middle position stops the blinds.

OPERATING GATE MOTORS

The device allows to operate gate motors.

- Gate motor should be connected to Q1 and Q2 terminals according to installation diagram.
- When operating gates a momentary switch may be connected to S1 terminal.
- It is recommended to connect an IR barrier, an emergency stop button or any alarm mechanism to S2 terminal. Opening a contact in a
 device connected to S2 terminal will always result in stopping a motor in current position.

Using momentary switch:

Click S1 switch - move gate in sequence:

OPEN -> STOP -> CLOSE -> STOP -> OPEN

Open S2 contact – stop movement

Note. After releasing the switch a spring automatically pushes back and disconnects the switch).

Automatic closing:

- After full opening the gate will automatically start closing after time specified in parameter 152,
- After opening S2 contacts the gate will automatically start closing after time specified in parameter 154.

9 MENU

Menu allows to perform Z-Wave network actions. In order to use the menu:

- 1. Switch off the mains voltage (disable the fuse).
- 2. Remove the device from the wall switch box.
- 3. Switch on the mains voltage.
- 4. Press and hold the B-button to enter the menu.
- 5. Wait for the LED to indicate the desired menu position with colour:
 - WHITE start calibration
 - **GREEN** reset energy consumption memory
 - VIOLET start range test
 - YELLOW reset the device
- 6. Quickly release and click the B-button again.

RESETTING TO FACTORY DEFAULTS

Reset procedure allows to restore the device back to its factory settings, which means all information about the Z-Wave controller and user configuration will be deleted.

Note. Resetting the device is not the recommended way of removing the device from the Z-Wave network. Use reset procedure only if the primary controller is missing or inoperable. Certain device removal can be achieved by the procedure of removing described in the "Adding the device" section.

Resetting the device to factory defaults:

- 1. Switch off the mains voltage (disable the fuse).
- 2. Remove the device from the wall switch box.
- 3. Switch on the mains voltage.
- 4. Press and hold the B-button to enter the menu.
- 5. Wait for the LED indicator to glow yellow.
- 6. Quickly release and click the B-button again.
- 7. After few seconds the device will be restarted, which is signalled with the red LED indicator colour.

11 POWER AND ENERGY CONSUMPTION

The device allows for the active power and energy consumption monitoring. Data is sent to the main Z-Wave controller. Measuring is carried out by the most advanced micro-controller technology, assuring maximum accuracy and precision (+/- 1% for loads 10W-1000W).

Electric active power - power that energy receiver is changing into a work and heat. The unit of active power is Watt [W].

Electric energy - energy consumed by a device through a time period. Consumers of electricity in households are billed by suppliers on the basis of active power used in given unit of time. Most commonly measured in kilowatt-hour [kWh]. One kilowatt-hour is equal to one kilowatt of power consumed over period of one hour, 1kWh = 1000Wh.

Caution. The device stores periodically (every hour) the consumption data in the device memory. Disconnecting the module from the power supply will not erase stored energy consumption data.

Note. Power measurement can contain mains voltage fluctuations within +/- 10%.

Resetting consumption memory:

The device allows to erase stored consumption data in three ways: a) Using functionality of a Z-Wave controller (see the controller's manual).

- b) Manually clearing the data using the following procedure:
 - 1. Switch off the mains voltage (disable the fuse).
 - 2. Remove the device from the wall switch box.
 - 3. Switch on the mains voltage.
 - 4. Press and hold the B-button to enter the menu.
 - 5. Wait for the visual LED indicator to glow green.
 - 6. Quickly release and click the B-button again.
 - 7. Energy consumption memory will be erased.

c) By resetting the device (see the "Operating roller blinds" section).

2 associations

Association (linking devices) - direct control of other devices within the Z-Wave system network e.g. Dimmer, Relay Switch, Roller Shutter or scene (may be controlled only through a Z-Wave controller).

The device provides the association of 3 groups:

1st association group – "Lifeline" reports the device status and allows for assigning single device only (main controller by default).
2nd association group – "Roller Shutter" is assigned to shutter position control – UP/DOWN (uses Switch Multilevel command class).
3rd association group – "Slats" is assigned to slats position control – UP/DOWN (uses Switch Multilevel command class).

The device in 2nd and 3rd group allows to control 5 regular or multichannel devices per an association group, with the exception of "Lifeline" that is reserved solely for the controller and hence only 1 node can be assigned.

Table A3 - Association groups mapping			
Root Endpoint Association Group in Endpoint			
Association Group 2	Endpoint 1	Association Group 2	
Association Group 3	Endpoint 2	Association Group 2	

Table A4 - Switch Multilevel commands sent to association groups for parameter 151 equal to 1, 5 or 6				
Parameter 20	Endpoint	Click	Hold	Release
0	S1 or S2	2nd group: Start/Stop Level Change	3rd group: Start Level Change	3rd group: Stop Level Change
1	S1 or S2	2nd group: Start/Stop Level Change	-	-
2	S1	2nd group: Start/Stop Level Change	3rd group: Start Level Change	3rd group: Start Level Change

Table A5 - Switch Multilevel commands sent to association groups for parameter 151 equal to 2				
Parameter 20	Endpoint	Click	Hold	Release
0	S1 or S2	2nd group: Start/Stop Level Change	-	3rd group: Stop Level Change
1	S1 or S2	2nd group: Start/Stop Level Change	_	-
2	S1	2nd group: Start/Stop Level Change	_	3rd group: Start Level Change

Table A6 - Switch Multilevel commands sent to association groups for parameter 151 equal to 3 or 4			
Switch	Click	Hold	Release
S1	2nd group: Start/Stop Level Change	3rd group: Start Level Change	3rd group: Stop Level Change

3 Z-WAVE RANGE TEST

A The device has a built in Z-Wave network main controller's range tester.

To make Z-Wave range test possible, the device must be added to the Z-Wave controller. Testing may stress the network, so it is recommended to perform the test only in special cases.

Note. Communication mode of the device may switch between direct and one using routing, especially if the device is on the limit of the direct range.

Testing Z-Wave range

Follow the below instructions to test the main controller's range:

- 1. Switch off the mains voltage (disable the fuse).
- 2. Remove the device from the wall switch box.
- 3. Switch on the mains voltage.
- 4. Press and hold the B-button to enter the menu.
- 5. Wait for the visual LED indicator to glow violet.
- 6. Quickly release and click the B-button again.
- 7. Visual indicator will indicate the Z-Wave network's range (range signalling modes described below).
- 8. To exit Z-Wave range test, click the B-button.

Z-Wave range tester signalling modes:

Visual indicator pulsing green - the device attempts to establish a direct communication with the main controller. If a direct communication attempt fails, the device will try to establish a routed communication, through other modules, which will be signalled by visual indicator pulsing yellow.

Visual indicator glowing green - the device communicates with the main controller directly.

Visual indicator pulsing yellow - the device tries to establish a routed communication with the main controller through other modules (repeaters).

Visual indicator glowing yellow - the device communicates with the main controller through the other modules. After 2 seconds the device will retry to establish a direct communication with the main controller, which will be signalled with visual indicator pulsing green.

Visual indicator pulsing violet - the device does communicate at the maximum distance of the Z-Wave network. If connection proves successful it will be confirmed with a yellow glow. It's not recommended to use the device at the range limit.

Visual indicator glowing red - the device is not able to connect to the main controller directly or through another Z-Wave network device (repeater).

14 ACTIVATING SCENES

The device can activate scenes in the Z-Wave controller by sending scene ID and attribute of a specific action using Central Scene Command Class.

By default scenes are not activated, set parameters 40 and 41 to enable scene activation for selected actions.

Table A7 - Activating scenes			
Switch	Action	Scene ID	Attribute
_ eq	Switch clicked once	1	Key Pressed 1 time
nect	Switch clicked twice	1	Key Pressed 2 times
terr	Switch clicked thrice	1	Key Pressed 3 times
itch o S1	Switch held*	1	Key Held Down
Š t	Switch released*	1	Key Released
ed .	Switch clicked once	2	Key Pressed 1 time
nect	Switch clicked twice	2	Key Pressed 2 times
con 2 terr	Switch clicked thrice	2	Key Pressed 3 times
o S2	Switch held*	2	Key Held Down
Št L	Switch released*	2	Key Released

* Not available for toggle switches.

15 z-wave specification

Endpoint 1:

Generic Device Class: GENERIC_TYPE_SWITCH_MULTILEVEL Specific Device Class: SPECIFIC_TYPE_CLASS_B_MOTOR_CONTROL Description: represents switch connected to the S1 terminal.

Endpoint 2:

Generic Device Class: GENERIC_TYPE_SWITCH_MULTILEVEL Specific Device Class: SPECIFIC_TYPE_CLASS_B_MOTOR_CONTROL Description: represents switch connected to the S2 terminal.

Switch Multilevel Command Class values refers to:

- 0x00 fully close
- 0x63 fully open

Table A8 - Supported Command Classes			
Command class	Version	Secure	
ZWAVEPLUS_INFO [0x5E]	V2		
SWITCH_MULTILEVEL [0x26]	V4	YES	
ASSOCIATION [0x85]	V2	YES	
MULTI_CHANNEL_ASSOCIATION [0x8E]	V3	YES	
ASSOCIATION_GRP_INFO [0x59]	V2	YES	

TRANSPORT_SERVICE [0x55]	V2	
VERSION [0x86]	V2	YES
MANUFACTURER_SPECIFIC [0x72]	V2	YES
DEVICE_RESET_LOCALLY [0x5A]	V1	YES
POWERLEVEL [0x73]	V1	YES
SECURITY [0x98]	V1	
SECURITY_2 [0x9F]	V1	
SUPERVISION [0x6C]	V1	
METER [0x32]	V3	YES
CONFIGURATION [0x70]	V1	YES
CRC_16_ENCAP [0x56]	V1	
NOTIFICATION [0x71]	V8	YES
PROTECTION [0x75]	V2	YES
MULTI_CHANNEL [0x60]	V4	YES
CENTRAL_SCENE [0x5B]	V3	YES
FIRMWARE_UPDATE_MD [0x7A]	V4	YES
APPLICATION_STATUS [0x22]	V1	
BASIC [0x20]	V1	YES

Table A9 - Multichannel Command Class			
Endpoint 1			
ZWAVEPLUS_INFO [0x5E]	V2		
SWITCH_MULTILEVEL [0x26]	V4	YES	
ASSOCIATION [0x85]	V2	YES	
MULTI_CHANNEL_ASSOCIATION [0x8E]	V3	YES	
ASSOCIATION_GRP_INFO [0x59]	V2	YES	
SECURITY [0x98]	V1		
SECURITY_2 [0x9F]	V1		
SUPERVISION [0x6C]	V1		
METER [0x32]	V3	YES	
NOTIFICATION [0x71]	V8	YES	
APPLICATION_STATUS [0x22]	V1		
Endpoint 2	<u>`</u>		
ZWAVEPLUS_INFO [0x5E]	V2		
SWITCH_MULTILEVEL [0x26]	V4	YES	
ASSOCIATION [0x85]	V2	YES	
MULTI_CHANNEL_ASSOCIATION [0x8E]	V3	YES	
ASSOCIATION_GRP_INFO [0x59]	V2	YES	
SECURITY [0x98]	V1		
SECURITY_2 [0x9F]	V1		
SUPERVISION [0x6C]	V1		
APPLICATION_STATUS [0x22]	V1		

Notification Command Class

The device uses Notification Command Class to report different events to the controller ("Lifeline" group).

Table A10 - Notification Command Class			
Notification Type	Event	Event Parameters	
Power Management [0x08]	Over-current detected [0x06]		

Table A10 - Notification Command Class			
Notification Type	Event	Event Parameters	
System [0x09]	System Hardware Failure [0x03]	Device overheat [0x01]	

Protection CC

Protection Command Class allows to prevent local or remote control of the device.

Table A11 - Protection CC		
Type of protection	State	Description
Local	0	Unprotected - The device is not protected, and may be operated normally via S1 or S2
Local	2	No operation possible – S1 and S2 cannot change relay state, any other functionality is available (menu)
RF (remote)	0	Unprotected - The device accepts and respond to all RF Commands
RF (remote)	1	No RF control – command class Basic and Switch Binary are rejected, every other command class will be handled

Meter Command Class:

Same for Root, Endpoint 1 and Endpoint 2.

Table A12 - Protection CC				
Meter Type	Scale	Rate Type	Precision	Size
Electric [0x01]	Electric_kWh [0x00]	Import [0x01]	2	4
Electric [0x01]	Electric_W [0x02]	Import [0x01]	1	2

16 ADVANCED PARAMETERS

Roll-Control allows to customize its operation to user's needs. The settings are available in the NICE interface as simple options that may be chosen by selecting the appropriate box.

Table A13 - Roll-Control - Advanced parameters				
Input/output configuration				
Parameter:	20. Switch type			
Description:	This parameter de	This parameter defines as what type the device should treat the switch connected to the S1 and S2 terminals.		
	This parameter is works as a mome	not relevant in gate operation of the connection	ing modes (parameter 151 set to 3 or 4). In this case switch always acted to S1 terminal.	
Available settings:	0 - momentary sv	0 – momentary switches		
	1 - toggle switche	es		
	2 - single, momentary switch (the switch should be connected to S1 terminal)			
Default setting:	0	Parameter size:	1 [byte]	
Parameter:	24. Inputs orientation			
Description:	This parameter allows reversing the operation of switches connected to S1 and S2 without changing the wiring.			
Available settings:	0 - default (S1 - 1st channel, S2 - 2nd channel)			
	1 - reversed (S1 - 2nd channel, S2 - 1st channel)			
Default setting:	0	Parameter size:	1 [byte]	
Parameter:	25. Outputs orie	ntation		
Description:	This parameter allows reversing the operation of Q1 and Q2 without changing the wiring (in case of invalid motor connection) to ensure proper operation.			

Available esttinger		1 at abaptal OQ and a	hannall	
Available settings:	\mathbf{U} - derauit (Q1 - 1St channel, Q2 - 2nd channel)			
	1 - reversed (Q1	- 2nd channel, Q2 - 1st	channel)	
Default setting:	0	Parameter size:	1 [byte]	
Parameter:	30. Alarm configuration - 1st slot			
Description:	This parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most significant bytes are set according to the official Z-Wave protocol specification.			
Available settings:	1B [MSB] - Notification Type			
	2B - Notification	Status		
	3B - Event/State	Parameters		
	4B [LSB] - action	ו:		
	0 - no action	ı		
	1 - open blir	nds		
	2 - close blir	nds		
Default setting:	[0x00, 0x00, 0x	00, 0x00]		
	(disabled)			
Parameter size:	4 [bytes]			
Parameter:	31. Alarm configuration - 2nd slot (Water)			
Description:	This parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most significant bytes are set according to the official Z-Wave protocol specification.			
Available settings:	1B [MSB] - Notif	ication Type		
	2B - Notification Status			
	3B - Event/State	Parameters		
	4B [LSB] - action:			
	0 - no action 1 - open blinds			
	2 - close blinds			
Default setting:	[0x05, 0xFF, 0x00, 0x00]			
	(Water Alarm, an	y notification, no action)		
Parameter size:	4 [bytes]			
Parameter:	32. Alarm confi	guration - 3rd slot (Sr	noke)	
Description:	This parameter of bytes, three mos	letermines to which alar It significant bytes are se	m frames and how the device should react. The parameters consist of 4 et according to the official Z-Wave protocol specification.	
Available settings:	1B [MSB] - Notification Type			
_	2B - Notification	Status		
	3B - Event/State	Parameters		
	4B [LSB] - action	ו:		
	0 - no action	ı		
	1 - open blinds			
	2 - close blir	nds		
Default setting:	[0x01. 0xFF. 0x	00. 0x001		
	(Smoke Alarm, a	ny notification. no actior	1	
Parameter sizes:	4 [bytes]	,,,	,	
Parameter:	33. Alarm configuration - 4th slot (CO)			
Description:	This parameter of	etermines to which alar	m frames and how the device should react. The parameters consist of 4	
	bytes, three mos	t significant bytes are se	et according to the official Z-Wave protocol specification.	

Available settings:	1B [MSB] - Notifi	cation Type		
	2B - Notification Status			
	3B - Event/State Parameters			
	4B [LSB] - action:			
	0 - no action			
	1 - open blinds 2 - close blinds			
Defeuilt estting:				
Default setting:		otification no action)		
Paramotor sizo:				
Parameter	34 Alarm confi	nuration - 5th slot (Heat	A	
Description:	This parameter d	etermines to which alarm	frames and how the device should react. The parameters consist of 4	
	bytes, three mos	t significant bytes are set a	according to the official Z-Wave protocol specification.	
Available settings:	1B [MSB] - Notifi	cation lype		
	2B - NOTIFICATION	Status		
	4B [I SB] - action	r ai ai hetei s		
	0 - no action	•• 		
	1 - open blin	ds		
	2 - close blin	lds		
Default setting:	[0x04, 0xFF, 0x0	0, 0x00]		
	(Heat Alarm, any	notification, no action)		
Parameter size:	4 [bytes]			
Parameter:	40. S1 switch -	40. S1 switch - scenes sent		
Description:	This parameter d	etermines which actions r	esult in sending scene IDs assigned to them.	
Available settings:	1 - Key pressed	1 - Key pressed 1 time		
	2 - Key pressed 2	2 - Key pressed 2 times		
	4 - Key pressed 3 times			
	8 - Key hold dow	n and key released		
Default setting:	0	Parameter size:	1 [byte]	
Parameter:	41. S2 switch -	scenes sent		
Description:	This parameter d	etermines which actions r	esult in sending scene IDs assigned to them.	
Available settings:	1 - Key pressed	1 time		
	2 - Key pressed 2	2 times		
	4 - Key pressed 3 times			
	8 - Key hold dow	n and key released		
Default setting:	0	Parameter size:	1 [byte]	
Parameter:	60. Measuring p	power consumed by the	e device itself	
Description:	This parameter d the device itself.	etermines whether the po	wer metering should include the amount of active power consumed by	
Available settings:	0 - function inact	ive		
	1 - function active	e		
Default setting:	0	Parameter size:	1 [byte]	
Parameter:	61. Power repo	rts - on change		
Description:	This parameter d	etermines the minimum cl	hange in consumed power that will result in sending new power report	
	For loads under ^p	50W the parameter is not	relevant and reports are sent every 5W change	
	Power report are	sent no often then everv	30 seconds.	
Available settings:	0 - reports are di	sabled		
	1-500 (1-500%)	- change in power		
Default setting:	15 (15%)	Parameter size:	2 [bytes]	
Parameter:	62. Power repo	rts - periodic	1	
Description:	This parameter d	etermines in what time inte	ervals the periodic power reports are sent to the main controller. Peri-	
	odic reports do n	ot depend on power char	nge (parameter 61).	

Available settings:	0 - periodic reports are disabled 30-32400 (30-32400s) - report interval			
Default setting:	3600 (1h)	Parameter size:	2 [bytes]	
Parameter:	65. Energy rep	orts - on change		
Description:	This parameter of to the main cont	This parameter determines the minimum change in consumed energy that will result in sending new energy report to the main controller.		
Available settings:	0 - reports are d 1-500 (0.01 - 5	lisabled kWh) - change in energy		
Default setting:	10 (0.1 kWh)	Parameter size:	2 [bytes]	
Parameter:	66. Energy rep	orts - periodic		
Description:	This parameter of odic reports do	determines in what time i not depend on energy ch	ntervals the periodic energy reports are sent to the main controller. Peri- nange (parameter 65).	
Available settings:	0 - periodic repo 30-32400 (30-3	orts are disabled 2400s) - report interval		
Default setting:	3600 (1h)	Parameter size:	2 [bytes]	
Parameter:	150. Force cali	bration		
Description:	By setting this particular set to work in po	arameter to 2 the device ositioning mode (paramet	enters the calibration mode. The parameter relevant only if the device is er 151 set to 1, 2 or 4).	
Available settings:	0 - device is not 1 - device is cali	 0 - device is not calibrated 1 - device is calibrated 		
Default setting:			1 [hyte]	
Paramotor:	151 Operating	mode	1 [byte]	
			n according to the connected device	
Available settings:	 1 - roller blind (with positioning) 2 - Venetian blind (with positioning) 3 - gate (without positioning) 4 - gate (with positioning) 5 - roller blind with built-in driver 			
Default setting:	1	Parameter size:	1 [byte]	
Parameter:	152. Venetian k	blind - time of full turn	of the slats	
Description:	For Venetian blir For gates (paran automatically (if The parameter is	For Venetian blinds (parameter 151 set to 2) the parameter determines time of full turn cycle of the slats. For gates (parameter 151 set to 3 or 4) the parameter determines time after which open gate will start closing automatically (if set to 0, gate will not close). The parameter is irrelevant for other modes.		
Available settings:	0-65535 (0-655	5.35s, every 0.01s) - time		
Default setting:	150 (1.5s)	Parameter size:	4 [Dytes]	
Parameter:	153. Set slats back to previous position			
Description:	For Venetian blinds (parameter 151 set to 2) the parameter determines slats positioning in various situations. The parameter is irrelevant for other modes.			
Available settings:	0 – slats return t	0 – slats return to previously set position only in case of the main controller operation.		
	1 – slats return to previously set position in case of the main controller operation, momentary switch operation, o when the limit switch is reached.			
	2 – slats return t when the limit sv	o previously set position witch is reached or after	In case of the main controller operation, momentary switch operation, receiving the Switch Multilevel Stop control frame	
Default setting:	1	Parameter size:	1 [byte]	
Parameter:	154. Delay mot	or stop after reaching	end switch	

Description:	For blinds (parameter 151 set to 1, 2, 5 or 6) the parameter determines the time after which the motor will be stopped after end switch contacts are closed. Parameter allows to calibrate devices with soft start by setting soft start time.			
	For gates (parameter 151 set to 3 or 4) the parameter determines time after which the gate will start closing auto- matically if S2 contacts are opened (if set to 0, gate will not close).			
Available settings:	0-255 (0-25.5s) - time			
Default setting:	10 (1s)	Parameter size:	2 [bytes]	
Parameter:	155. Motor oper	ation detection		
Description:	Power threshold t	Power threshold to be interpreted as reaching a limit switch.		
Available settings:	 0 - reaching a limit switch will not be detected 1-255 (1-255W) - report interval 			
Default setting:	10 (10W)	Parameter size:	2 [bytes]	
Parameter:	156. Time of up movement			
Description:	This parameter determines the time needed for roller blinds to reach the top.			
	For modes with positioning value is set automatically during calibration, otherwise it must be set manually.			
Available settings:	1-65535 (0.01-655.35s, every 0.01s) - movement time			
Default setting:	6000 (60s)	Parameter size:	4 [bytes]	
Parameter:	157. Time of down movement			
Description:	This parameter determines time needed for roller blinds to reach the bottom.			
	For modes with positioning value is set automatically during calibration, otherwise it must be set manually.			
Available settings:	1-65535 (0.01-655.35s, every 0.01s) - movement time			
Default setting:	6000 (60s)	Parameter size:	4 [bytes]	

17 TECHNICAL SPECIFICATIONS

The product Roll-Control is produced by Nice S.p.A. (TV). Warnings: - All technical specifications stated in this section refer to an ambient temperature of 20 °C (\pm 5 °C) - Nice S.p.A. reserves the right to apply modifications to the product at any time when deemed necessary, while maintaining the same functionalities and intended use.

Roll-Control	
Туре	in-wall/flush box mounted control unit for tubular motors
Power supply	100–240 V AC, 50/60 Hz
Rated load current	4.2A for lamps and resistive loads 1.7A for motors and compensated power factor (inductive loads)
Supported motor type	single-phase AC motors
Required limit switches	electronic or mechanic
Power consumption	up to 0.8W
Operating temperature	0-35°C
Operating humidity	10-95%RH without condensation
Active element	micro-gap relay switch µ
For installation in boxes	$\emptyset \ge 50$ mm, depth ≥ 60 mm
Dimensions (L x W x H)	42.5 x 38.25 x 20.3 mm

Radio transceiver	
Radio protocol	Z-Wave (500 series chip)
Frequency band	868.4 or 869.8 MHz EU 921.4 or 919.8 MHz ANZ
Transceiver range	up to 50m outdoors up to 40m indoors (depending on terrain and building structure)
Max. transmit power	EIRP up to 6 dBm

(*) The transceiver range is strongly influenced by other devices operating at the same frequency with continuous transmission, such as alarms

8 PRODUCT DISPOSAL

This product is an integral part of the automation and therefore must be disposed together with the latter.

As in installation, also at the end of 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. **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.



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! - local legislation may envisage serious fines in the event of abusive disposal of this product.

19 declaration of conformity

Hereby, Nice S.p.A., declares that the radio equipment type Roll-Control is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: http://www.niceforyou.com/en/support



Nice SpA Oderzo TV Italia info@niceforyou.com

www.niceforyou.com