

inovelli 7AA-SS-VE-C0 Bypass Door Window Sensor Z-Wave 700 User Guide

Home » inovelli » inovelli 7AA-SS-VE-C0 Bypass Door Window Sensor Z-Wave 700 User Guide 🖺



inovelli

Contents

- 1 inovelli 7AA-SS-VE-C0 Bypass Door Window Sensor Z-Wave
- 2 Safety Information
- 3 Maintenance
- **4 Notification Commands**
- 5 How to trigger these different notifications
- **6 Configuration Set Command Class**
- 7 Central Scene (8 bit)
- 8 Parameter Number Definitions (8 bit)
- 9 Documents / Resources
- **10 Related Posts**

inovelli 7AA-SS-VE-C0 Bypass Door Window Sensor Z-Wave 700



1. In The Box



• Door/Window sensor

2. 2. APP Set Up

- Remove the plastic sheet from battery cabinet. It's power on now.
- Add sensor
- Sensor in pairing mode
- Sensor is connected to the gateway

3. Product Introduction

The Inovelli door window sensor is designed for use with scenes in home automation and security systems, the door window sensor lets you know when door or windows is opened and can trigger different actions in

response to that open action (or close action).

Detection Technology	Hall
Detective Range	20mm
Communication Protocol	Z-Wave
D # 5	908.42MHz (US)
Radio Frequency	868.42MHz (EU)
	More than 200m outdoors Approximately 30m indoors (d epending
Wireless Range	on building materials)
Power Source	3V, CR2 *1
Battery Life	3 years
Mounting	Screws or 3M Tape
Operating Temperature	0°C to 40°C
Operating Humidity	Up to 85% non-condensing
Certifications	CE/FCC, Z-Wave
ОТА	Yes

68.4.(L)*24.4(W)*21.5(H) for Main Body	
44.4(L)*15(W)*13(H)	for Magnetic Part
	, , , , , , , , ,

Product Installation

This product can be mounted by screws or 3M adhesive tape, install it according to the following step:

- 1. Remove the plastic sheet for isolating battery from battery cabinet.
- 2. Use a pin to reset the pinhole switch for 5 seconds to reset the sensor. The sensor will be in pairing status.
- 3. Stick the slim magnet and device onto the door/window, no further than 20 mm from the sensor, fix the device on the door/window by screw or 3M tape.
- 4. The magnet and the main sensor must be less than 20 mm apart. Main sensor must be affixed to the frame and the magnet must be affixed to the door window.
- 5. Should not be mounted on a metal frame.





Function of action

Trigger	Description		
	On the network: Send Battery Report , Sensor Multilevel Report. and Wake Up Notification, LED keeps on 1 second. Not On the network: LED slow blinks red 3 times and start SmartStart.		
Power on			
	Add the Door Sensor into the Z-Wave network via SmartStart:		
SmartStart Inclusion	1. Add Door Sensor DSK into the primary controller SmartStart Provisioning List (If you don't know how to do this, refer to its manual, DSK usually print on the main body).		
	2. Remove the battery from the Door Sensor. A few seconds later, reinsert battery in the DUT.		
	3. The Door Sensor will send "Z-Wave protocol Command Class" frame to start Sm artStart Inclusion.		
	4. LED will flash green during the inclusion, and then solid green for 2 seconds to in dicate that the inclusion is successful, otherwise the LED will solid red for 2 seconds in which you need to repeat the process form step 2		
	Note: User should follow the procedure in the section below if the		
	controller does not support SmartStart inclusion.		

	Add the Door Sensor into the Z-Wave network:
	1. Power on your Door Sensor, set your Z-Wave controller into add/inclusion mode.
	2. Trigger this action
	3. LED will flash green during the inclusion, and then solid green for 2 seconds to i ndicate the inclusion is successful, otherwise the LED will solid red for 2 seconds in whi ch you need to repeat the process form step 2
Short press Z-Button one time	Remove Door Sensor from a Z-Wave network:
	1. Power on your Door Sensor, and let the Z-Wave primary controller into remove/ex clusion mode.
	2. Trigger this action.
	3. LED will flash red during the exclusion, and then solid red for 2 seconds to indicat e that the exclusion is successful, otherwise the LED will solid green for 2 seconds in w hich you need to repeat the process form step 2.
Short press Z-B utton t	On the network: Send Wake up notification, and LED will fast blink green during sending data.
hree times	Not on the network: NOP.
	Reset Door Sensor to factory default.
Press and hold Z-B utt on more than 5 secon ds	LED will blink red faster and faster within 5 seconds and then keep solid red until the b utton is released. Device will reset itself to factory default by sending a "Device Reset L ocally Notification" to gateway when the button is released.
	Only on the network:
Short press the Bypass- Button	Door Sensor will enter Bypass mode for 5 minutes. Bypass mode: When the bypass button is pressed, the first "open door event" will not be triggered and the first "close door event" will clear the bypass mode.

This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All mains operated nodes within the network will act as repeaters regardless of vendor to increase the reliability of the network.

Safety Information

Battery Safety Information:

- This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death. Keep away from babies and small children at all times.
- If battery is swallowed or placed inside any part of the body, immediately seek medical help.

- Risk of explosion if the battery is replaced by an incorrect type.
- · Dispose of used battery promptly.
- **IMPORTANT:** Do not expose to rain. Install the product at least 3 ft. from the door for optimum performance.

 This alarm contains small parts and is not suitable for children. Periodically check the condition of the batteries.

Disposal and Recycling Information

Correct Disposal of this product. This marking indicates that this product should not be disposed of with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.

Maintenance

- 1. If need to clean the sensor, please use a soft cloth with a little alcohol to wipe it after you cut off the power.
- 2. This product is just for indoor use only.
- 3. Should be affixed indoors and away from sources of moisture.
- 4. This product has low voltage detection reminder. When the battery voltage is in low status, the sensor will give out a low battery signal to the gateway.
- 5. Replace the battery timely on low battery warning to ensure the sensor works properly. Please use battery model CR2 only.

Caution

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- 1. this device may not cause harmful interference, and
- 2. this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Hereby, Corporation declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU Special Rule Of Each Command Class Z-Wave Plus Info Report Command Class

Parameter	Value
Z-Wave Plus Version	0x02
Role Type	0x06 (ZWAVEPLUS_INFO_REPORT_ROLE_TYPE_SLAVE_SLEEPING_REPOR TING)
Node Type	0x00 (ZWAVEPLUS_INFO_REPORT_NODE_TYPE_ZWAVEPLUS_NODE)
Installer Icon Type	0x0C06 (ICON_TYPE_SPECIFIC_SENSOR_NOTIFICATION_ACCESS_CONTRO L)
User Icon Type	0x0C06 (ICON_TYPE_SPECIFIC_SENSOR_NOTIFICATION_ACCESS_CONTRO L)

Association Command Class

Door Sensor supports 2 association groups and max 5 nodes for each group.

Grouping Identifier	Max Node	Send Commands
---------------------	----------	---------------

		2. Notification Report.
		2. Notification neport.
		Sensor will send Notification Report when the supp orted event is triggered.
		3. Sensor Multilevel Report.
		4. Sensor will send Sensor Multilevel Report in the time set by configuration parameter 0x21/Power on will trigger Sensor Multilevel Report.
		5. Battery Report.
Group 1	0x05	
Group 1	0.000	Power on or the battery level is low
		6. Central Scene Notification.
		Bypass Button is pressed
		7. Device Reset Locally.
		Z-Button is press and hold for more than 5 seconds
		1.Basic Set
Group 2	0x05	Sensor will send Basic Set when the sensor body and magnet are removed or combined.

Association Group Info Command Class Association Group Info

Grouping identifier	Group Name	Profile MS	Profile LS
01	Lifeline	0x00	0x01
02	On/Off control	0x71	0x06

Association Group Command-List

Group 1	Command List Support
Command Class	COMMAND_CLASS_NOTIFICATION_V8(0x71)
Command	NOTIFICATION_REPORT_V8(0x05)
Command Class	COMMAND_CLASS_BATTERY(0x80)
Command	BATTERY_REPORT(0x03)
Command Class	COMMAND_CLASS_DEVICE_RESET_LOCALLY(0x5A)
Command	DEVICE_RESET_LOCALLY_NOTIFICATION(0x01)
Command Class	COMMAND_CLASS_SENSOR_MULTILEVEL_V5(0x31)
Group 1	Command-List Support
Command Class	COMMAND_CLASS_NOTIFICATION_V8(0x71)
Command	NOTIFICATION_REPORT_V8(0x05)
Command Class	COMMAND_CLASS_BATTERY(0x80)
Command	BATTERY_REPORT(0x03)
Command Class	COMMAND_CLASS_DEVICE_RESET_LOCALLY(0x5A)
Command	DEVICE_RESET_LOCALLY_NOTIFICATION(0x01)
Command Class	COMMAND_CLASS_SENSOR_MULTILEVEL_V5(0x31)

Command	SENSOR_MULTILEVEL_REPORT(0X05)	
Command Class	COMMAND_CLASS_CENTRAL_SCENE_V3(0x5B)	
Command	CENTRAL_SCENE_SUPPORTED_NOTIFICATION_V3(0x03)	
Group 2	Command List Support	
Command Class	COMMAND_CLASS_BASIC(0x20)	
Command	BASIC_SET(0x01)	

Notification Commands

Notification Type	Notification Event
HOME_SECURITY (0x07)	(0x00) Previous Events cleared (0X03) TAMPERING_COVERING_REMOVED
ACCESS_CONTROL (0x06)	(0x16) WINDOW_DOOR_IS_OPEN (0x17) WINDOW_DOOR_IS_CLOSE
POWER_MANAGEMENT (0x08)	(0x0A) REPLACE_BATTERY_SOON 10 (0x0B) REPLACE_BATTERY_NOW 11 (0x00) Previous Events cleared
SYSTEM (0x09)	(0x09) Digital input high state

How to trigger these different notifications

· Home Security:

Tampering Covering Removed (0x03): the tamper button back to the main body is released.

Previous Events cleared (0x00): the tamper button back the main body is pressed.

Access Control:

The door is open (0x16): the separation of the main body and the magnet.

The door is closed (0x17): the combination of the main body and the magnet.

• Power Management:

REPLACE_BATTERY_SOON (0x0A): When the Door Sensor first time detects the battery level is less than/equal to the value set by configuration parameter 0x0A.

REPLACE_BATTERY_NOW (0x0B): When the Door Sensor first time detects battery level is less than/equal to 5%.

Previous Events cleared (0x00): When the battery is replaced by a new one.

• SYSTEM:

Digital input high state: When a powerful magnet puts on the Door Sensor.

PS: This is used for notifying the user that may be a thief and intends to destroy the Intruder alarm system.

Wake Up Interval Capabilities Report CC

Parameter	Value
WAKEUP_PAR_DEFAULT_SLEEP_TIME	0x5460
WAKEUP_PAR_MAX_SLEEP_TIME	0x015180
WAKEUP_PAR_MIN_SLEEP_TIME	0x14
WAKEUP_PAR_SLEEP_STEP	0x14

Manufacturer Specific Report

Parameter	Value
Manufacturer ID 1	0x03
Manufacturer ID 2	0x00
Product Type ID 1	0x03
Product Type ID 2	0x00
Product ID 1	0x00
Product ID 2	0x41

Configuration Set Command Class

Command Format

7	6	5	4	3	2	1	0	
Command Class = COMMAND_CLASS_CONFIGURATION								
Command =	Command = CONFIGURATION_SET							
Parameter N	Number							
Default	Reserved							
Configuration Value 1(MSB)								
Configuration Value 2								
Configuration Value n(LSB)								
Central Scene (8 bit)								
Command				Key Attribu	ute	number		

	0x00(press 1 time)	0x01
Central Scene(press central button)	0x01(release)	0x01
	0x02(held)	0x01
	0x03(press 2 times)	0x01

Parameter Number Definitions (8 bit)

		Default	
Parameter Nu mber	Description	Value(de c)	Size
0x01	7210Range Set the range about magnetic field Range: 0- the range of parameter 0x02 is 0x00000001-0x00004B00, the range of parameter 0x03 is 0x00000001-0x00002300. 1- the range of parameter 0x02 is 0x00000001-0x0002EE00, the range of parameter 0x03 is 0x00000001-0x00015E00.	0	1
0x02	72100P Set the average magnetic field in ut Range: 0x00000001-0x00004B00 or 0x00000001-0x0002EE00	640	4
0x03	7210PolHyst Set the offset about magnetic field Range: 0x00000001-0x00002300 or 0x00000001-0x00015E00	200	4

0x0A	LowBatPrecent This parameter defines a battery level as the "low battery". Range: 0x05-0x32	10	1
0x0E	BasicEnable Enable/Disable BASIC SET command 0 – Disable. 1 – Enable.	0	1
0x0F	BasicReverse Door Sensor reverse its value of BASIC SET when the magnet is triggered. 0 -Send BASIC SET VALUE = 0xFF/0x00 to nodes associated with group 2 when door is opened/closed. 1 -Send BASIC SET VALUE = 0/255 to nodes associated with group 2 when door is opened/closed.	0	1
0x20	Bypass Enable/Disable Bypass mode 0 – Enable. 1 – Disable.	0	1

	temp			
0x21	The interval time the Door Sensor reports the Multilevel Sensor Report to t he association group1 in minutes. 0x0F-0xFF	15	1	
0xFE	LockConfig Enable/Disable configuration set 0 – Enable. 1 – Disable.	0	1	

Name	Info	Paramet er er Numb er	Default Value(de c)	Max Value(de c)	Min Value (dec)	Si ze	reason y	Format	Altering capabilit y y
7210Range	7210RangeSe t	0x01	0	1	0	1	No read-on ly	Unsign ed d integer	true
7210OP	7210OPSet	0x02	640	19200 Or 1920 00	1	4	No read-on ly	Unsign ed d integer	true
7210PolHyst	7210PolHystS e t	0x03	200	8960 Or 8960 0	1	4	No read-on ly	Unsign ed d integer	true
LowBatPrec en t	LowBatAlarm	0x0A	10	50	5	1	No read-on ly	Unsign ed d integer	true
BasicEnable	SendBasic	0x0E	0	1	0	1	No read-on ly	Unsign ed d integer	true
BasicRevers e	BasicValue	0x0F	0	1	0	1	No read-on ly	Unsign ed d integer	true
Bypass	BypassSet	0x20	0	1	0	1	No read-on ly	Unsign ed d integer	true
temp	Temperaturel nf o	0x21	15	255	15	1	No read-on ly	Unsign ed d integer	true
LockConfig	LockConfigSe t	0xFE	0	1	0	1	No read-on ly	Unsign ed d integer	true

Documents / Resources



<u>inovelli 7AA-SS-VE-C0 Bypass Door Window Sensor Z-Wave 700</u> [pdf] User Guide 7AA-SS-VE-C0, Bypass Door Window Sensor Z-Wave 700

Manuals+,