Datasheet RELAY X2 Z-Wave REL-203-Z-01

Grenton RELAY X2 Z-Wave allows you to control up to two out-puts (max. 3600 VA), two digital inputs (low voltage) and one 1-Wire interface.



1. Parameters - ZWAVE DOUT

Features:	
Value	Returns 1 for output set at On and O for output set at Off state
Methods:	
SetValue	Sets output state to 1 or 0
Switch	Changes the output value from 0 to 1 or from 1 to 0. The first parameter is the time or change: 0 - switches output to continuous mode, number - switches output for a time spec- ified by a parameter (in milliseconds)
SwitchOn	Sets output value to 1
SwitchOff	Sets output value to 0
Events:	
OnChange	Occurs when a change in the state takes place (regardless of the value)
OnSwitchOn	Occurs when On(1) is set at output
OnSwitchOff	Occurs when Off(0) is set at output

2. Parameters - ZWAVE DIN

Features:		
HoldDelay	Time in milliseconds after which, when pressing and holding a button, the OnHold event oc curs	
HoldInterval	Cyclical interval in milliseconds after which, when pressing and holding a button, the OnHol event occurs	
Value	Returns input state as 0 or 1	
Methods:		
SetHoldDelay	Sets HoldDelay value	
SetHoldInterval	Sets HoldInterval value	
Events:		
OnChange	Occurs when a change in the input state takes place (regardless of the value)	
OnSwitchOn	Occurs when the high state is set at input	
OnSwitchOff	Occurs when the low state is set at input	
OnShortPress	Occurs after pressing the button for 500 - 2000ms	
OnLongPress	Occurs after pressing the button for at least 2000ms	
OnHold	Occurs for the first time after HoldDelay time and then cyclically every HoldInterval value	
OnClick	Occurs after pressing the button for less than 500 ms	

3. Parameters - ZWAVE 1-WIRE SENSOR

Features:		
Value	Input value	
MinValue	Minimum value of the Value characteristic after exceeding which the OnOutOfRange event is generated	
1axValue Maximum value of the Value characteristic after exceeding which the OnOutOff is generated		
Status	Sensor status: 0 - disconnected; 1 - connected	
Events:		
OnChange	Event resulting from changing input state	
OnRaise	Event resulting from exceeding the upper threshold of hysteresis	
OnLower	ver Event resulting from exceeding the lower threshold of hysteresis	
OnOutOfRange	Event resulting from exceeding any range	
DnInRange Event occurring when setting a value which is lower than the maximum value or high the minimum value		
OnConnect	Event resulting from connection with sensor	
OnDisconnect	Event resulting from disconnection with sensor	

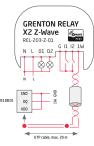
4. Parameters - ZWAVE CONFIG

Features:		
Register	Register (parameter) number	
Value	e Register (parameter) value	
NodelD	Module's number (node) in the Z-Wave network	
Banned	Returns information about communication with module: 0 - communication with the module	
	is not blocked, 1 - blocked communication with the module (module banned)	
FailCount	The number of failed communication attempts with the Z-Wave module	
Methods:		
Set	Sets the value of the register (parameter)	
Get	Gets the value of a given register (parameter)	
SetDefault Sets the default value for register (parameter)	Sets the default value for register (parameter)	
RemoveBan	temoveBan Removes the blockade of communication with the Z-Wave module	
ClearFailCount	Cleans the number of failed communication attempts	
Events:		
OnBanned	Occurs when Z-Wave device is banned	

5. Technical data

Device power supply	100-265 V _{ac} 50/60 Hz	
Maximum power consumption	0,8 W	
Maximum load voltage	265 V _{ac}	
	16 A / 265 V _{ac} / summary,	
Maximum current for resistive load AC1	16 A / channel 1 (01),	
	8 A / channel 2 (02)	
Maximum power 1 phase motor (UL 508)	1,0 Hp / 265 V _{ac} / channel	
Insulation Low-High (230Vac) voltage	3 kV	
Maximum wire cross section	2,5 mm ²	
Z-wave frequency	EU: 868,4 MHz	
Weight	40 g	
Fixing	flush mounted	
Dimensions (H/W/D)	22/46/37 mm	
Operating temperature range	0 to +45 °C	

6. Wiring diagram



 The brand new device has Standalone Mode enabled. The inputs I1, I2 control the outputs 01, 02.

Low voltage G, I1, I2, 1W lines galvani cally separated from high voltage N, L lines

-		UTP cable, max. 20 m
-	N	"Neutral" signal
-	L	"Line" signal
-	01	first relay output (COM = L)
	02	second relay output (COM = L)
	G	GND for 1-Wire and digital inputs
-	11	first digital input (potential-free)
-	12	second digital input (potential-free)
-	1-W	1-Wire bus input

• The 'L' signal powers O1 and O2 outputs.

7. Module Inclusion To add the device to the Z-Wave network:

- Connect the module according to the diagram above.
 Set your Z-Vave controller into inclusion mode.
 Generate quickly¹ 6 pulses on 1L input. The status LED starts blinking with a period of 500 ms.
 The status LED turns OFF at the end of the Inclusion process.

If you are connecting this unit to a Z-Wave Controller that utilizes the S2 security protocol, you may be asked to enter the first

If you are connecting this unit to a 2-wave controller that utilizes the 32 security protocol, you mine yoe asked to entite it the limst. 5 digits of Device Specific Key (DSK), You can find it on the label with QR code on the back of the unit. The device supports SmartStart function. SmartStart enabled products can be added into a 2-Mave network by scanning the Z-Wave QR Code present on the product with a controller providing SmartStart inclusion. No further action is required and the Smart Start product will be added automatically within 10 minutes of being switched on in the network vicinity. The device provides DSK representation on the product, so you can add it manually to the controller.

8. Module Exclusion

To remove the device from the Z-Wave network

- Connect the module according to the diagram above.
 Set your Z-Vave controller into exclusion mode.
 Generate quickly¹ 6 pulses on 11 input. The status LED starts blinking with a period of 500 ms.
 The status LED turns OFF at the end of the Exclusion process.

9. Factory Reset

To restore factory configuration

- 1. Connect the module according to the diagram above
- Generate quickly¹ 6 pulses on I2 input. The status LED turns ON. Generate quickly¹ 6 pulses on I1 input. The status LED turns OFF.
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10. Standalone Mode To enable / disable standalone mode

- Connect the module according to the diagram above.
 Generate quickly¹ 6 pulses on l2 input. The status LED turns ON.
 Generate quickly¹ 4 pulses on l1 input. The status LED turns OFF.

Warnings and cautionary statements



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• Danger to life caused by electric current! The components of the installation (individual devices) are de-

signed to work in a home electrical installation or directly in its. vicinity. Incorrect connection or use may cause a fire or electric

12. CE marking

The manufacturer declares that the device is in full compliance with the requirements of EU legislation that includes the directives of a new approach appropriate for this equipment. In particular, Grenton Sp. 2 o. 0 declares that the device fulfills the requirements on safety, specified by law, and that it conforms to

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13. Warranty

Warranty available at: www.grenton.com/warranty

14. Manufacturer contact details

Grenton Sp. z o.o. ul. Na Wierzchowinach E 30-222 Kraków, Polska (PL) www.grenton.com

resulting from the assembly and / or use of the equipment not in accordance with the instructions and / or due diligence in han-dling the equipment (device). Device power supply, permissible load or other characteristic parameters have to be in accordance with the device specifica-tion, described in particular in the "Technical data" section. The product is not intended for children and animals. If you have technical questions or comments about the device operation, contact Grenton Technical Support. A nswers to frequently asked questions can be found at: www.support.grenton.pl

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 All work related to the installation of the device, in particular works involving interference in the electrical installation, may be performed only by a person with appropriate qualifications or licences. When installing the device, make sure that the power supply voltage is disconnected from the circuit in which the device is con-

nected or near which the assembly takes place.

the national regulations that implement the appropriate directives: The Directive on the electromagnetic compatibility (EMC -2014/30/UE) and the Directive on the limitation of the use of specific substances in electrical and electronic equipment (RoHS II - 2011/65/UE).