

# ENERGY Switch series

## NRG-TX Series

5926522 MAR 2018

### Manufacturer's statement

Read this operation manual carefully before use to ensure proper operation of this product. Failure to read this operation manual may cause improper operation and may result in serious injury or death of a person. The meanings of the symbols are as follows.

	<b>WARNING</b>	Disregard of the warning symbol can cause improper operation which may cause death or serious injury.
	<b>CAUTION</b>	Disregard of the caution symbol can cause improper operation which may cause injury of a person or damage the object.
	<b>NOTE</b>	Special attention is required to the section of this symbol.

#### NOTE

- This product is a radio transmitter for activation of an automatic door. Do not use for any other applications.
- Prior to turning on power, verify proper connection with automatic door control in order to prevent damage or malfunction of equipment.
- NRG-RX1 receiver must only be paired with NRG-TX series transmitters.
- Only use the product as specified in the operation manual provided.
- Be sure to install and adjust the product in accordance with the local laws and standards of the country in which the product is installed.
- Before leaving the installation site make sure that the product is operating properly and instruct the building owner/operator on proper operation of the door and the product.
- The product settings should only be changed by an installer or service engineer.

	<b>WARNING</b>	Do not attempt to wash, disassemble, rebuild, or repair the product. There is a risk of electric shock and voiding the warranty. Contact OPTEX technical support for questions.
<b>Danger of electric shock</b>		

#### NOTE

- There's a slight possibility that material such as metal, energy efficient devices or other electronic devices can affect signal strength.
- Do not cut or lengthen the antenna.
- Signal strength maybe affected by 2.4GHz wireless LAN.

### Specifications

Model	: NRG-TX	Operating temperature	: -13°F to +140°F
Detection method	: Radio frequency transmitter		(-25°C to 60°C)
Frequency	: 2.4GHz	Accessories	: Manual
Radiated power	: +2.0dBm(typ.)		2 Mounting screws
Power supply	: Energy harvesting		1 velcro supplied(2")

### NRG-TX Series line up

NRG-4S series    NRG-4R series    NRG-6R series    NRG-J series    NRG-V series

### Pairing & Installation

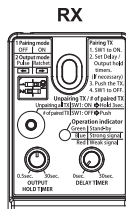
- 1 Pairing** \* A maximum of 10 transmitters can be paired with one receiver.  
Be sure to turn ON the power supply.

#### 1-1. Pairing without "Delay timer / Output hold timer"

- Set the Delay timer to 0sec. and the Output hold timer to 0.5sec.
- Set dipswitch 1 to ON, "Pairing mode".  
(Operation indicator : Slow yellow & green blinking)
- Push the transmitter in order to trigger the receiver.  
(Operation indicator will blink fast yellow when pairing is in progress.)
- Repeat # 3 above when pairing additional NRG-TX.
- Set dipswitch 1 to OFF when pairing is completed.

#### 1-2. Pairing with "Delay timer / Output hold timer"

- Set dipswitch 1 to ON, "Pairing mode".  
(Operation indicator : Slow yellow & green blinking)
- Set each individual timer.

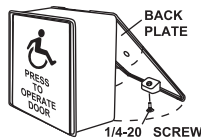


<b>Output hold timer</b>	Activation signal hold time, Adjustable from 0.5sec. to 30sec. will provide a constant signal for time selected. (Adjustable hold timer output/Standard application)
<b>Delay timer</b>	The time delay between the NRG-RX1, receiving the input signal from the NRG-TX and the NRG-RX1 providing the output signal to the automatic door control. (Permits time for lock to be disengaged)

- Push the transmitter in order to trigger the receiver.  
(Operation indicator will blink fast yellow when pairing is in progress.)
- Repeat #3 above when pairing additional NRG-TX.  
(Repeat #2 above when changing NRG-TX timers separately.)
- Set dipswitch 1 to OFF when pairing is completed.

#### 2 Installation

- Remove the 1/4-20 screw located at the bottom of the mounting box and separate the BACK PLATE from mounting box. Secure the BACK PLATE in its intended mounting location with a minimum of two screws.
- Attach the mounting box to the BACK PLATE. Place key-way from mounting box over the key of the BACK PLATE. Slide mounting box down and over the BACK PLATE in a hinge like motion.



- Secure the mounting box to the BACK PLATE with the 1/4-20 screw supplied. The screw should be located on the underside of the mounting box.


**WARNING**

Mounting screws must be flush with the back plate to ensure proper assembly.

**3**

#### Confirming transmitter signal strength

The NRG-TX signal strength will be specified on the NRG-RX1 operation indicator.

Status	Operation indicator color
Stand-by	Green
Strong signal	Blue
Weak signal	Red

#### NOTE

For optimal performance a "Strong Signal" is required. In the case of a "Weak Signal", reposition the NRG-RX1 and extend the antenna.

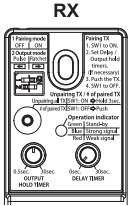
### Unpairing all transmitters / Confirming the number of paired transmitters

#### 1 Unpairing all transmitters

- Set dipswitch 1 to ON.
- Push "Unpairing TX / # of paired TX button" for 3 seconds.
- When operation indicator turns off, unpairing is complete.

#### 2 Confirming the number of paired transmitters

- Set dipswitch 1 & 2 to OFF.
- Push "Unpairing TX / # of paired TX button".
- Blinking purple indicates how many transmitters are paired.



### Inform building owner / operator of the following items

#### WARNING

- Do not wash the product with water.
- Do not attempt to disassemble, rebuild, or repair the product. There is a risk of electric shock and voiding the warranty. Contact your service provider for support.

#### CAUTION

- Do not paint the product.

### Troubleshooting

Door operation	Possible cause	Possible countermeasures
Door does not open.	Pairing with the receiver is not done.	Check <b>Pairing &amp; Installation 1, Pairing</b>
	TX signal may not be reaching RX.	Extending the antenna and/or reposition the receiver.

#### FCC WARNING(For USA)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### -NOTICE-

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### -NOTICE-

- The antennas cannot be exchanged.
- To comply with FCC RF exposure compliance requirements, a separation distance of at least 20cm must be maintained between the antenna of this device and all persons.

#### IC(For CANADA)

Operation is subject to the following two conditions:

- this device may not cause interference, and
- this device must accept any interference received, including interference that may cause undesired operation of the device.

#### Manufacturer

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