

Model 700

Wave-to-Open Switch

Standard or Double Gang

Installation Instructions

**NORTON
RIXSON**

ASSA ABLOY

WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to: www.P65warnings.ca.gov.

Specifications:

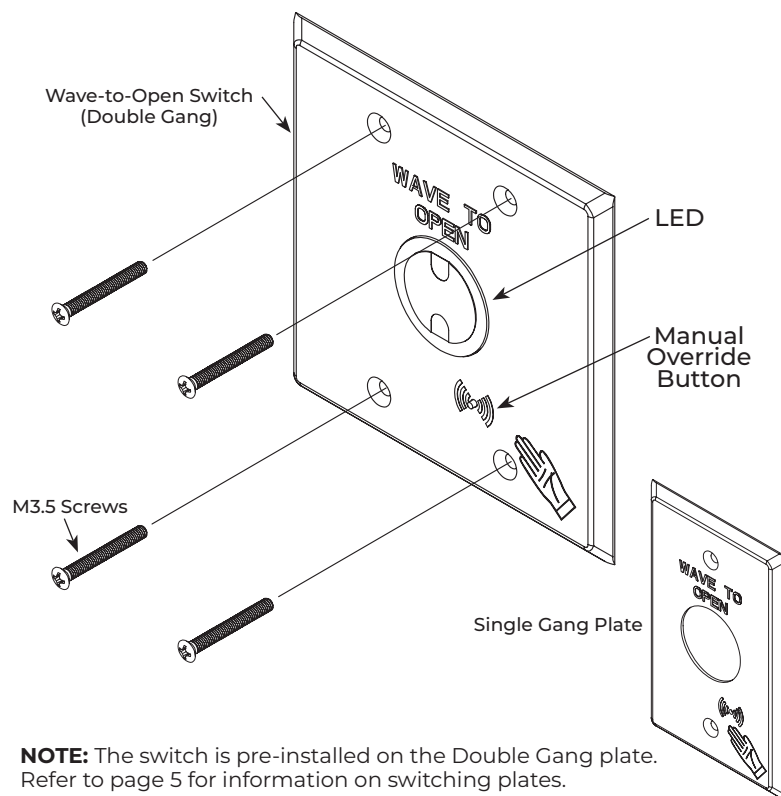
Input Voltage: 12V to 24VDC

SPDT Contact Rating: 2A @30VAC/VDC

Sensor Detection Range: Up to 4" (101mm)

Operating Temperature: -13° F to 131°F (-25°C to 55°C)

Current Draw: 50mA @12VDC, 65mA @24VDC

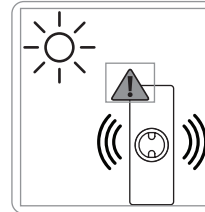


NOTE: The switch is pre-installed on the Double Gang plate. Refer to page 5 for information on switching plates.

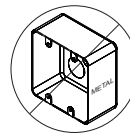
READ AND FOLLOW ALL INSTRUCTIONS.
SAVE THESE INSTRUCTIONS.

CAUTION

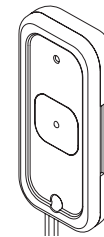
An incorrectly installed or improperly adjusted product can cause property damage or personal injury. These instructions should be followed to avoid the possibility of misapplication or misadjustment.



Bright light, such as direct sunlight, can interfere with the Wave-to-Open signal.



Metal enclosures can reduce signal strength and cause an intermittent or reduced signal reception when using a radio frequency transmitter. To ensure proper function, do not use metal conduit housing.



Norton Rixson Radio Frequency Transmitter
P/N 548
(sold separately)

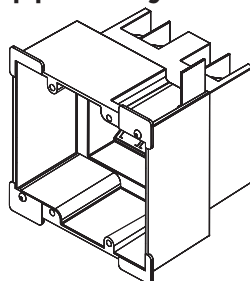
Supplied Fasteners



**4x
M3.5
Phillips Oval Head
Machine Screw**

Depending on conduit housing, screws may be supplied by others.

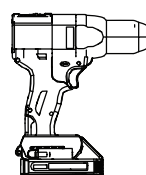
Supplied By Others



Plastic Conduit Housing/ Screws

Required when using RF transmitter (Double Gang Housing shown, Single Gang Housing option also available, but not shown)

Tools Needed



Drill



Phillips
Drive Bit



Safety Glasses



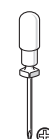
Wire Striper/
Cutter



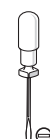
Utility Knife



Pencil



Philips Head
Screwdriver

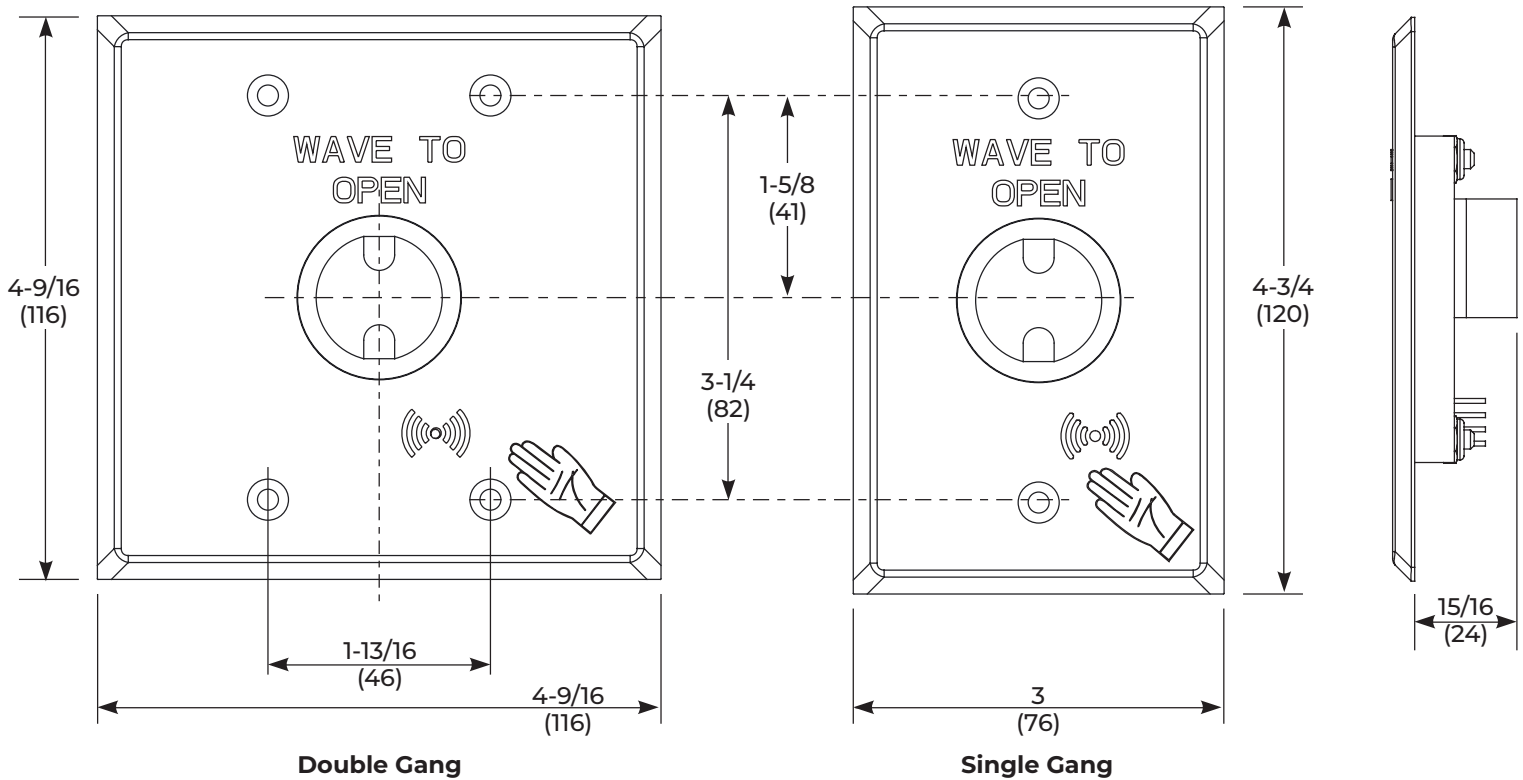


Flat Head
Screwdriver



Tape
Measure

Dimensions and Specifications



Specifications:

Input Voltage: 12V to 24VDC
 SPDT Contact Rating: 2A @30VAC/VDC
 Sensor Detection Range: Up to 4" (101mm)
 Operating Temperature: -13° F to 131° F (-25°C to 55°C)
 Current Draw: 50mA @12VDC, 65mA @24VDC

Two Modes of Operation:

Standby: LED on steady, relay is not active

Operating: LED flashing, relay is active

NOTE: The color displayed by the circle LED on the switch is set by installing or removing the LED setting jumper. Refer to "LED Setting Jumper" in the graphic to the right.

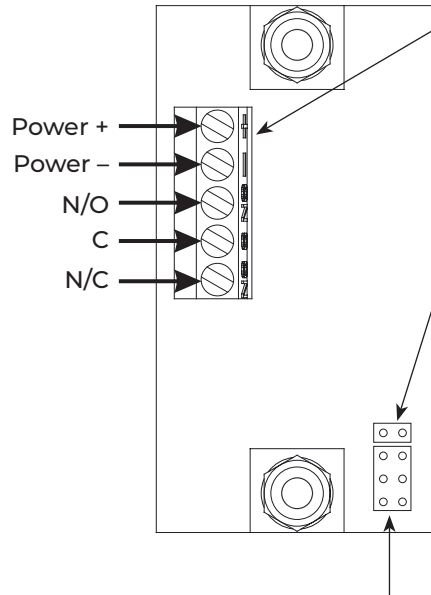
Switch Operation:

To operate the switch, make a slow waving motion with hand in front of plate within 4" (101mm).

When the hand movement is detected or the manual override button is pressed, a tone will sound and LED circle will flash to indicate the relay has been activated.

The relay will activate for amount of time as set by time delay jumpers. Refer to "Time Delay Jumpers" in the graphic to the right.

The manual override button can be used to activate relay at any time.



Wiring

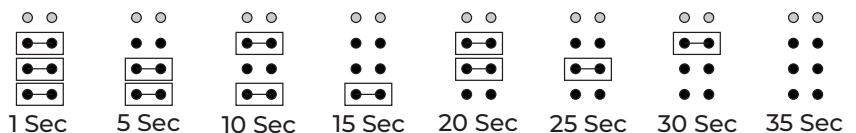
For proper wire connection, loosen screws fully and ensure silver contact is completely down. Insert wires and tighten screws to secure wires.

LED Setting Jumper

The color displayed by the LED is determined by the jumper placement:

- Jumper in place:
 - LED is Red when in stand-by and flashes Green when relay is active.
- No Jumper:
 - LED is Green when in standby and flashes Red when relay is active.

Time Delay Jumpers



Model 700

Wave-to-Open Switch, Standard or Double Gang

Installation

A. Install the Plastic Conduit Housing

NOTE: Refer to “Changing Plate” on page 5 if using single gang housing.

1. Measure and mark the wall with the horizontal centerline of the switch between 34" - 48" (86.4cm - 121.9cm) from floor. (Figure 1)
2. If jurisdiction requires, secure wire conduit (supplied by others) to the back of the housing and feed the wires through the plastic conduit housing. (Figure 2)
3. Strip the sheath from each wire end exposing 5/16" (7.9) to prepare wires for connection. (Figure 2)
4. Prepare the wall for the housing using typical methods for the wall material.
5. Install the housing in the wall using the fasteners, supplied by others.

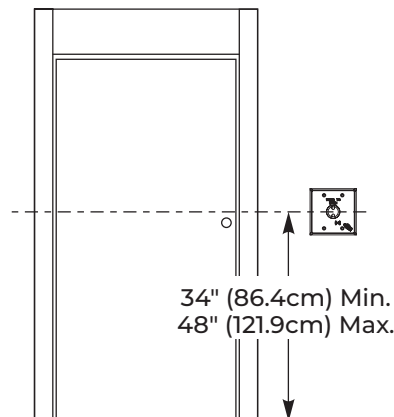


Figure 1

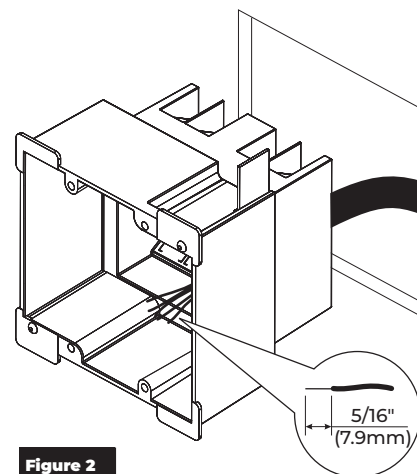


Figure 2

B. Install the Switch



1. Set the LED and Time Delay Settings as desired on the Wave-to-Open switch. See “LED Setting Jumper” and “Time Delay Jumpers” on page 2.
2. Use a small flat head screwdriver to connect 24VDC and activation wiring on the switch terminal block. (Figure 3) See “Wiring” on page 2 and refer to the appropriate wiring diagram provided with the door operator instructions.
3. Attach the Wave-to-Open switch to conduit housing. Conduit housing may require use of screws supplied by others. M3.5 Philips Oval Head Machine screws are provided. (Figure 4)



Verify all wiring is inside the conduit housing before the switch plate is secured.

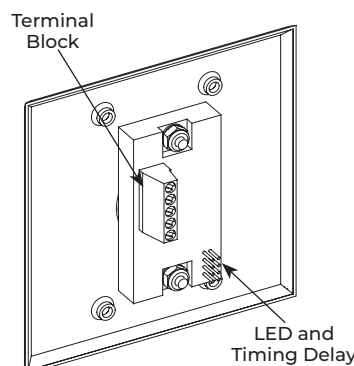


Figure 3

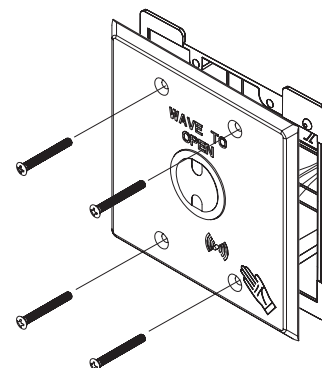


Figure 4

RF Transmitter Installation

- NOTES:** When utilizing a radio frequency transmitter:
- A plastic conduit housing box is required. (Figure 5). Metal can reduce signal strength. To ensure proper function, an RF transmitter should not be used when Wave-to-Open switch is installed in a metal enclosure.
 - A 12V to 24VDC power source is required needed to power Wave-to-Open switch. Source can be an operator or a DC transformer.

1. Prepare wall and install conduit housing as outlined on page 3.
2. Using wire cutters, remove blade connectors from both green and white RF Transmitter wires.

DO NOT cut red and black 9V battery connector wires.

3. Strip sheathing from each wire end exposing 5/16" (7.9) to prepare wires for connection. (Figure 5)
4. Wire the RF Transmitter to the Switch. (Figure 6)
 - Green wire to Normally Open (NO)
 - White wire to Common (C).
5. Install 9V Battery to female battery connector. (Figure 5)
6. Install switch as outlined on page 3..

Verify all wiring is inside conduit housing before switch plate is secured.

7. Pair transmitter by activating the switch while the RF Receiver connected to the door operator is in pairing mode.

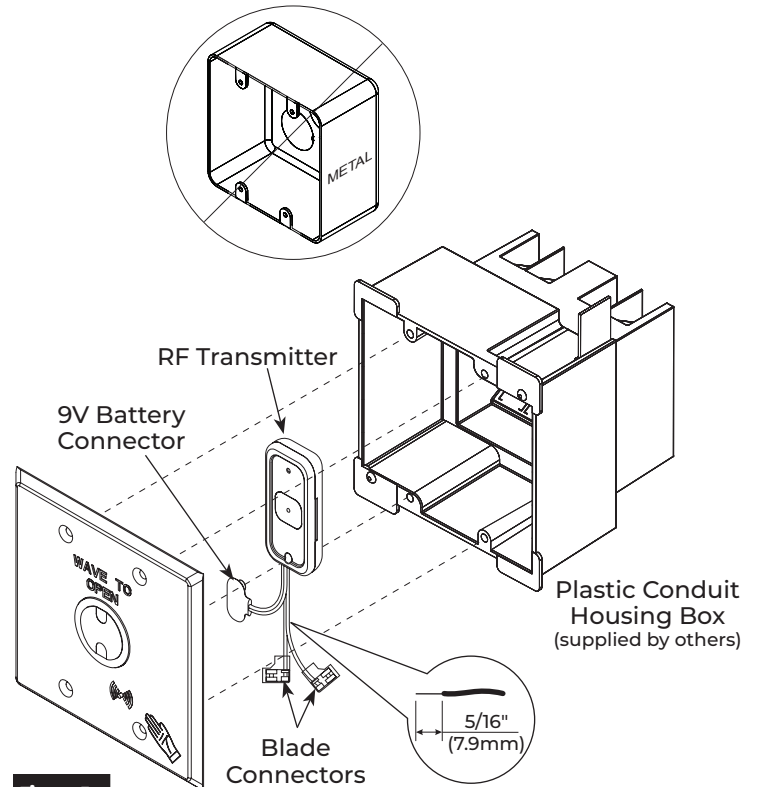


Figure 5

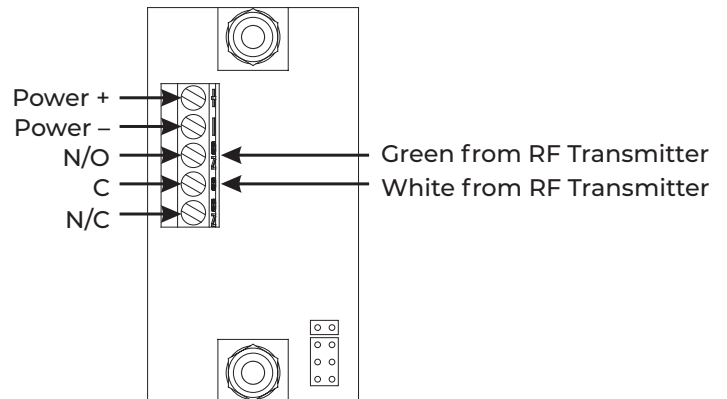


Figure 6 Back of Switch

Model 700

Wave-to-Open Switch, Standard or Double Gang

Changing Plate

To replace the existing plate with a new plate or switch between single gang and double gang plates, perform the following steps:

1. Remove the lock nuts and washers from back of switch.
2. Remove the switch and O-ring from plate.
3. Reassemble using replacement plate.

Refer to Figure 7.

NOTE: When attaching the switch to the replacement plate, make sure the reset button on the switch is properly aligned with the reset button hole on the plate. (Figure 8)

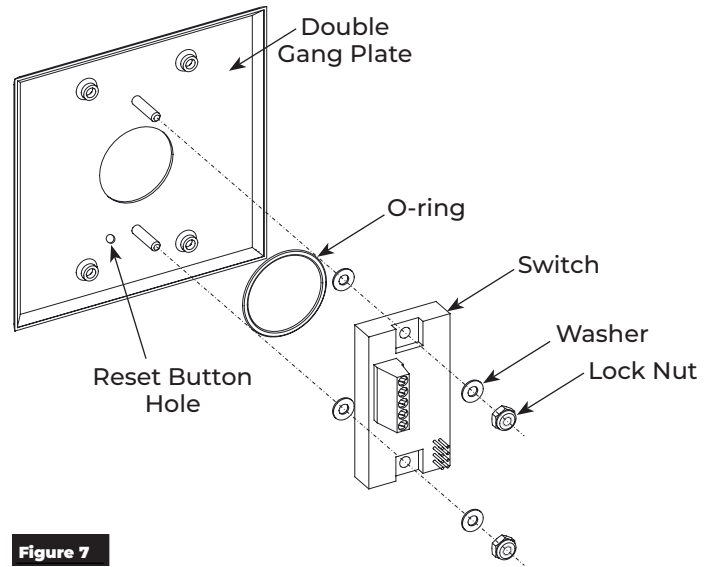


Figure 7

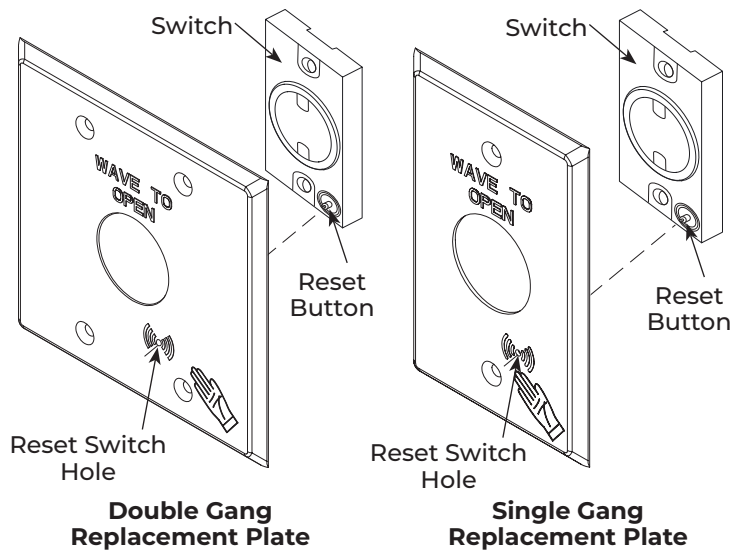


Figure 8

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