

Operating Instructions

The WC10-345 is a Thin Door/Window Contact that can be installed on doors, windows, and many other objects that open and close. The sensor transmits signals to the control panel when a magnet mounted near the sensor is moved away from or closer to the sensor. The sensor has an external input that accepts N/C dry contact devices. The sensor is also equipped with a cover tamper for additional security.

Installation & Mounting Guidelines

Use the following guidelines for internal switch usage:

1. Mount the sensor on the door frame and the magnet on the door. If the sensor is used on double doors, mount the sensor on the least-used door and the magnet on the most-used door.
2. If possible, locate sensors within 100 ft. (30 m) of the panel. While a transmitter may have a range of 350 ft. (106 m) or more out in the open, the environment at the installation site can have a significant effect on transmitter range. Sometimes a change in sensor orientation can help overcome adverse wireless conditions.
3. Make sure the alignment arrow on the magnet points to the alignment mark on the sensor (see Figure 1).
4. Place sensors at least 4.7 in. (12 cm) above the floor to avoid damaging them.
5. Avoid mounting sensors in areas where they will be exposed to moisture or where the sensor operating temperature range of 32 to 120°F (0 to 49°C) will be exceeded.
6. Use spacers (not included) to keep sensors and magnets away from metal or metallic surfaces such as foil wallpaper.
7. Avoid mounting sensors in areas with a large quantity of metal or electrical wiring, such as a furnace or utility room.

To mount the sensor, do the following:

1. Place the base of the sensor in the desired location and secure with included screws (see Figure 2).
2. When mounting the magnet, line up the arrow on the magnet with the middle line on one side of the sensor (see Figure 1). Mount the magnet no more than 0.4 in. (1 cm) away from the sensor. Be sure to secure the magnet with adhesive.

To use the external input:

1. Repeat above instructions for mounting.
2. Drill hole through access hole, if needed (see Figure 2).
3. Plug two-pin connector into J1 (see Figure 3).
4. Connect wire to N/C dry contact device.

Programming

The following steps describe general guidelines for programming (learning) the sensor into the alarm control panel memory. For more details, refer to the 2GIG or Honeywell Installation & Programming Instructions.

1. To remove the sensor cover, use your finger to press the tab on the end of the case. This will disengage the clip holding the cover to the base.
2. Set the panel to sensor learning mode.
3. Press and release the tamper switch (SW1) on the sensor until the panel responds (see Figure 3).
4. Replace the base of the sensor.
5. Exit program mode.

Testing

Before mounting the sensor, verify that the sensor mounting location provides good RF communication to the panel. To verify, do the following:

1. Put the control panel into sensor test mode.
2. Hold the magnet next to the alignment mark on the side of the sensor and then pull the magnet away from the sensor.
3. Listen for siren or keypad beeps to determine appropriate response (refer to the control panel installation instructions).
4. Exit sensor test mode.

Note: It is recommended that a system test be performed per the Operation & User's Guide at least once a year.

Figure 1

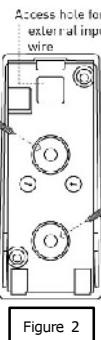
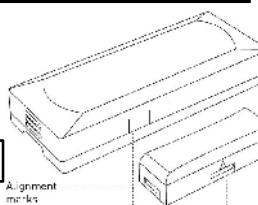


Figure 2

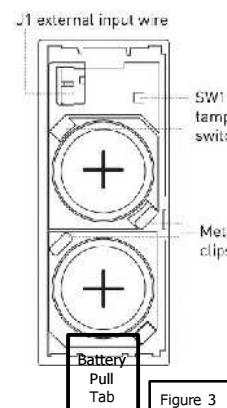


Figure 3

Battery Installation & Replacement

If a sensor battery is low, a low battery notification will be indicated on the 2GIG or Honeywell Alarm Control Panel's screen.

When the alarm system indicates that there is a sensor with a low battery, replace the battery immediately. Use only the recommended replacement batteries (see Specifications).

To install or replace the battery, do the following:

1. To remove the sensor cover, use your finger to press the tab on the end of the case. This will disengage the clip holding the cover to the base.
2. Place a small flathead screwdriver in the slot between the metal clip (see Figure 3) and the battery and twist the screwdriver slightly while holding back one of the black plastic edges holding the battery.
3. Insert the replacement battery with the + sign facing out. (see Figure 3)
4. Verify programming and RF communication with the panel. (see Testing).

WARNING! The polarity of the battery must be observed, as shown (see Figure 3). Improper handling of lithium batteries may result in heat generation, explosion or fire, which may lead to personal injuries. Replace only with the same or equivalent type of battery as recommended by the manufacturer. (see Specifications)

Batteries must not be recharged, disassembled or disposed of in fire. Disposal of used batteries must be made in accordance with the waste recovery and recycling regulations in your area.

Keep away from small children. If batteries are swallowed, promptly see a doctor.

California Only: This Perchlorate warning applies only to Manganese Dioxide Lithium cells sold or distributed ONLY in California, USA. Perchlorate Material-special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate.

Specifications

Wireless Signal Range
Code Outputs

350 ft., open air, with 2GIG or Honeywell Wireless Alarm Control Panel
Alarm; Alarm Restore; External Alarm; External Restore; Tamper; Tamper Restore; Supervisory; Low Battery

Transmitter Frequency
Transmitter Frequency Tolerance
Transmitter Bandwidth

345.000 MHz (crystal controlled)
± 15 kHz
24 kHz

Modulation Type
Unique ID Codes
Supervisory Interval

Amplitude Shift Keying—On/Off Keying (ASK-OOK)
Over one (1) million different code combinations

Peak Field Strength
External Input Sampling Current
External Input

70 minutes
Typical 36,000 μ V/m at 3m

Reed Switch Magnetic Sensitivity
Reed Sensitivity
Magnet Type

20 μ A
Accepts N/C dry contact devices

10 to 20 amp turns
0.625 in. (1.59 cm) minimum gap, 0.85 in. (2.16 cm) typical

Rare earth
1.3 x 0.435 x 0.312 in. (3.3 x 1.1 x 0.79 cm)

Magnet Dimensions (LxWxH)
Sensor Dimensions (LxWxH)

2.59 x 1.03 x 0.49 in. (6.58 x 2.62 x 1.24 cm)

Weight (including battery & magnet)
Housing Material

1.1 oz. (31.2 g)
ABS plastic

Color
Operating Temperature

White
32° to 120°F (0° to 49°C)

Relative Humidity
Battery (included)

5-95% Non-Condensing

Regulatory Listing(s)

Two (2) Panasonic CR2032, or equivalent Lithium batteries

Warranty*

ETL, FCC Part 15, Industry Canada

Two (2) years

Included Accessories

Two (2) Philip's flat-head screws, one (1) two-pin connector with a 12" flying 2-wire lead, adhesive strip

FCC STATEMENT

1. 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.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

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

NOTE: 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.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.