ENFORCER Outdoor Wave-to-Open Sensors FAQ

For the following Outdoor Wave-to-Open Sensors:

Slimline Plates: SD-9163-KSQ, SD-9163-KS1Q, SD-9163-KS2Q, SD-9163-KSVQ
Single-Gang Plates: SD-9263-KSQ, SD-9263-KS1Q, SD-9263-KS2Q, SD-9263-KSVQ
European Plates: SD-9363-KSQ, SD-9363-KS1Q, SD-9363-KS2Q, SD-9363-KSVQ
Double-Gang Plate: SD-9463-KSVQ
Post-Mount: SD-9963-KSGQ
Surface-Mount: SD-9773-KNEVQ

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Pre-Sale Questions

What is the maximum amperage for a connected device?

Do not connect any device that will exceed 1.2A@24VDC (1A@24VDC for SD-9773KNEVQ).

The standby LED indicator default colors are red, changing to green when triggered. Can I change the standby color to green, with red indicating triggered?

Yes. Slimline models have two jumper pin locations, one to the left of the trimpots on the back of the sensor and one to the right. The jumper will be on the set of jumper pins to the right by default (red: standby, green: triggered). To reverse the colors, remove the jumper from the right location and place it on the two jumper pins to the left of the trimpots.
For all other models, there is a three-pin jumper below the two trimpots on the back of the sensor. The jumper will be on the two pins to the right by default (red: standby, green: triggered). To reverse the colors, remove the jumper from the two pins to the right and place it on the two pins to the left.

Can I adjust the sensor's triggering range?

The factory default range is set to the maximum distance of 7" (18cm) for all except the SD-9773-KNEVQ for which the maximum distance is 6" (15cm). To decrease the range, turn the *Sensor Range Trimpot* counterclockwise until the desired range is attained. The minimum range is 2" (5cm) or $1^9/_{16}$" (4cm) for the SD-9773-KNEVQ.
The trimpots are arranged vertically above the terminal plug and the *Sensor Range Trimpot* is on the top.
NOTE: Do not force the trimpots. Only minimal force is needed to turn them.

Can I adjust the trigger duration?

The default output duration is set to the minimum of 0.8 seconds (0.5 seconds for the SD-9773-KNEVQ) from the factory. To increase the output duration, turn the *Output Duration Trimpot* clockwise until the desired time is attained (up to 30 seconds). However, note that turning the *Output Duration* to its maximum position will set the trigger to *Toggle Mode* (toggling between ON and OFF).
The trimpots are arranged vertically above the terminal plug and the *Output Duration Trimpot* is on the bottom.
NOTE: Do not force the trimpots. Only minimal force is needed to turn them.

Can I set the trigger to toggle ON/OFF?

Yes. To do so, simply adjust the *Output Duration Trimpot* to its maximum position using the *Output Duration Trimpot*.
The trimpots are arranged vertically above the terminal and the *Trigger Output Duration* is on the bottom.
NOTE: Do not force the trimpots. Only minimal force is needed to turn them.

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Is it possible to use this sensor as an anti-theft sensor, triggering when an object is removed from the sensor's read range instead when an object enters the sensors read range?

Yes, though one of our stand-alone sensors (CS-PDxxx-Series) might be a better option. To serve as an anti-theft sensor, use the sensor's N.C. output (green) instead of the N.O. output. Connect this to the alarm panel's N.C. input and the COM (blue) to the alarm panel's COM terminal.

Can I connect the sensors directly to a door strike?

Yes, but we suggest connecting a metal oxide varistor (MOV) or diode (both not included) as close as possible and in parallel with the controlled output device. Make sure that the diode's cathode (striped end) is installed toward the strike's positive terminal. This absorbs possible electromagnetic interference to prevent damaging the IR proximity sensor. See manual for further details.

Are these sensors weatherproof?

Yes, when properly installed. Only the front is IP65 weatherproof (except the SD-9773-KNEVQ, which is IP54). The back side must be protected from any possible water entry. For the plate models, use a waterproof back box and apply a bead of silicone sealant (not included) around the rim of the backbox and the faceplate edge and a small amount beneath each screw head. The SD-9773-KNEVQ should not be installed where it may receive spray from below, such as from a lawn sprinkler.

What is the purpose of the manual override button on some models?

The manual override button allows for operation if the sensor is disabled for some reason.

General Installation Questions

I have a sensor installed outdoors and it sometimes triggers unexpectedly. What could be the problem?

Due to the nature of IR technology, an IR sensor can be triggered by a direct light source such as sunlight, reflected light from a shiny object, or other direct light aimed at the sensor. If you install outdoors, consider any possible sources of reflected or direct light and how that may be avoided. Consider a hood or some other shield to protect the sensor from such a light source.

My sensor remains triggered. What could be causing that?

To ensure proper operation, make sure no objects sit or come within $11^3/_4$" (30cm) and within a cone of 60° to the left and right of the front of the IR proximity sensor to avoid interference.

Reduce the IR range of the sensor (see *Can I adjust the sensor's triggering range?*).

Ensure that your sensor's output duration is not adjusted to maximum. Turning the trimpot to maximum will set the trigger to toggle mode (see *Can I adjust the trigger duration?*).

Check that the power supply's voltage is correct (12~24 VDC).

My sensor will not trigger. What could be causing that?

Increase the IR range of the sensor (see *Can I adjust the sensor's triggering range?*).

Check that the power supply's voltage is correct (12~24 VDC).

How should I clean the sensor?

The sensor requires special care to ensure reliability and a long operating life. When cleaning is needed: 1) Use a soft, clean cloth (a microfiber cloth is recommended) and use the mildest cleaner available. 2) Spray the cleaning solution onto the cleaning cloth instead of the unit. 3) Wipe any excess liquid from the sensor. Wet spots may affect the sensor's performance and leave a dust ring when they dry.