



ENFORCER Wave-to-Open Sensors FAQ

For the following Wave-to-Open Sensors:

Stainless Steel Plates:

SD-927PKC-NEQ, SD-927PKC-NFQ, SD-927PKC-NSQ

Stainless Steel Plates with Manual Override:

SD-927PKC-NEVQ, SD-927PKC-NFVQ, SD-927PKC-NSVQ

White Plastic Plate: SD-927PWCQ

Edited September 9, 2021

Pre-Sale Questions

What is the maximum amperage for a connected device?

Do not connect any device that will exceed 3A@24VDC (3A@30VDC for SD-927PWCQ).

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

Yes. To reverse the standby color, simply remove the jumper located above the *Output Duration* and *Sensor Range* Trimpots (on the SD-927PWCQ, the jumper is to the right of the terminal block). To avoid losing the jumper, you can place it on either of the two pins but not on both.

Can I adjust the sensor's triggering range?

Yes, except for the SD-927PWCQ. For other models, the default range is set to the maximum distance of 8" (20cm). To decrease the range, turn the *Sensor Range Trimpot* counterclockwise until the desired range is attained. The minimum allowable range is 2³/₈" (6cm).

The range on the SD-927PWCQ is 2" (5cm) and is not adjustable.

The trimpots are arranged vertically to the right of the terminal block and the *Sensor Range Trimpot* is on the bottom.

NOTE: Do not force the trimpots. Only minimal force is needed to turn them.

Can I adjust the trigger duration?

Yes, except for the SD-927PWCQ. For other models, the default trigger duration is set to the minimum of 0.5 seconds from the factory. To increase the trigger duration, turn the *Output Duration Trimpot* clockwise until the desired time is attained (up to 30 seconds). However, note that turning the *Output Duration Trimpot* to its maximum position will set the trigger to *Toggle Mode* (toggling between ON and OFF).

The trigger duration on the SD-927PWCQ is not adjustable. Its trigger duration is 0.5 seconds or as long as an object remains in range of the sensor.

The trimpots are arranged vertically to the right of the terminal block and the *Output Duration Trimpot* is on the top.

NOTE: Do not force the trimpots. Only minimal force is needed to turn them.

Can I set the trigger to toggle ON/OFF?

Yes, except for the SD-927PWCQ. To do so on other models, simply adjust the trigger duration to the maximum setting using the *Output Duration Trimpot*.

The trimpots are arranged vertically to the right of the terminal block and the *Output Duration Trimpot* is on the top.

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) may be a better option. To serve as an anti-theft sensor, use the sensor's N.C. output instead of the N.O. output. Connect this to the alarm panel's N.C. input and the COM 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?

These sensors are not designed for outdoor installation.

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. 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?

Note that the sensor will remain triggered as long as something is within range. Ensure that nothing is remaining within the range of the sensor.

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 VAC/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 VAC/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.