



STOP WORRYING ABOUT FALSE ALARMS!™

PeaceMaker gives you the **peace of mind** to use your alarm system with confidence.



Model: PM-40

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Finally. A Solution to the False Alarm Siren Problem.

Even the best home and car alarm systems can produce false alarms, resulting in siren noise that disturbs entire neighborhoods. Until now, communities have been forced to tolerate this noise pollution. But PeaceMaker offers an innovative solution.

PeaceMaker Model PM-40 is a low-cost false alarm prevention device that easily attaches to the siren wire of any new or existing home, business, or car alarm. PeaceMaker temporarily disrupts power to the siren if there have been patterns of repeated or extended siren soundings indicative of false alarms. It even informs the user of recent false alarm events to assist in servicing.



The PM-40 requires no batteries or power supply!

What if it's an actual break-in? PeaceMaker is designed to allow the siren to properly sound in this case.

PeaceMaker provides you with effective false alarm prevention and "peace of mind" knowing that your neighbors will not be disturbed by siren noise if something goes wrong with your alarm system. Stop worrying about false alarms! And with fewer false alarm sirens, PeaceMaker increases the overall effectiveness of your alarm system.

Add PeaceMaker To Your Alarm System If You

- ✓ Want to stop disturbing your neighbors with noisy false alarm sirens
- ✓ Want to avoid costly false alarm fines
- ✓ Want to reduce noise pollution in your community
- ✓ Hesitate to use your alarm system because it sometimes goes off for no reason
- ✓ Have pets or sensitive sensors that are repeatedly setting off your alarm system



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PeaceMaker Features

- Can be added to any home (monitored or unmonitored), business, car, or boat alarm system that uses a siren, speaker, bell, buzzer, or horn.
- Will not interfere with communications to your monitored alarm center.
- Installs easily in minutes on the wire running to your siren. No other wiring is required.
- Detects and silences three different types of repeated or extended siren soundings.
- No batteries or dedicated power inputs are required. PeaceMaker's built-in microcomputer circuit is automatically charged and powered by the siren wire itself!
- Automatically resets after a false alarm, enabling legitimate alarms to sound the siren.
- User configurable settings. You tell PeaceMaker when you want silencing to occur by selecting from switch presets on the back of the device.
- LED and tones indicate that your alarm was silenced in the previous 16 hours and the reason for silencing, allowing for proper alarm servicing.
- Completely separate circuitry from your alarm system ensures that PeaceMaker will function properly when your alarm system does not.
- Includes mounting hardware and complete installation/operational instructions.
- Quality design and construction for reliable, maintenance-free operation.

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What It Does

A typical burglary occurs in less than 8 minutes. When a burglar hears a siren, he has to assume that the authorities are on the way. He quickly finishes up his crime and flees the scene. Almost all alarm systems are designed to automatically silence the siren after several minutes, because continuing to sound a siren serves no purpose other than to disturb the neighborhood with loud noise pollution.

Even though your alarm system resets itself automatically, many types of false alarms can still result in extended or repeated siren soundings. Even high-end systems with advanced false alarm prevention features, such as swinger shutdown, can malfunction and generate noisy false alarms. And when the owner isn't around to disarm the system, neighbors have no choice but to endure the endless noise pollution!

Types of false alarms include:

TYPE 1. The siren turns on and remains on for an extended period of time. A false alarm of this type is usually caused by a malfunctioning alarm system circuit, possibly due to environmental factors or component failure. A properly operating alarm system should reset itself after several minutes and should not remain on for an extended period of time without interruption.

TYPE 2. The alarm system retriggers continually. A false alarm of this type is usually caused by a malfunctioning sensor that repeatedly trips the alarm, causing the siren to sound over and over. Each time the alarm system resets itself, it is immediately retriggered by the malfunctioning sensor.

TYPE 3. The alarm system retriggers intermittently throughout the day or night. A false alarm of this type is often caused by an overly sensitive sensor or human error. One example is a car alarm going off every time a truck drives by it. Another example is a home alarm sounding every time a pet moves about the house.

PeaceMaker's built in microcomputer analyzes your alarm system's triggerings and temporarily silences your siren whenever any of these three types of extended or repeated siren soundings occur. It then informs you that siren silencing occurred in the previous 16 hours and the reason for silencing, so that you can have your alarm system properly serviced.

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How It Works - Technical Details

During installation, a user easily configures the bank of switches on the back of PeaceMaker to select the ideal siren silencing preset for his/her application and type of alarm system. For example, some users may want to select a "quiet house/car" preset, where PeaceMaker silences the siren at the first hint of extended or repeated siren soundings. Others may want to select a "noisy house/car" preset, where silencing does not occur until the siren has sounded for longer periods of time or many times. Preset tables are provided in the [Detailed Setup Instructions](#).

PeaceMaker's bank of switches are configured at the factory for the "typical home" user who owns a home alarm system that automatically resets and rearms itself after sounding its siren for 5 minutes. Several examples are described below of PeaceMaker used with such a system. These examples demonstrate PeaceMaker's effectiveness in permitting the siren to trigger during legitimate alarms, while preventing extended or repeated siren soundings.

A Typical Home Alarm - Operating Properly

When a burglar enters the home and triggers the alarm, the siren sounds for 5 minutes until the alarm system resets itself and silences the siren. The burglar, hearing the siren, realizes that he has been detected and must assume that neighbors have called the police and/or a central monitoring service has been alerted. He already knows that he must leave quickly; so any additional siren sounding only contributes to noise pollution. This is why almost all alarm systems reset themselves. PeaceMaker will not disrupt the siren sounding in this case.



If the burglar is brazen and continues to rob the house for longer than 5 minutes even though the siren has sounded, the alarm may be immediately re-triggered by the crook. The siren will again sound for 5 minutes, resulting in a total of 10 minutes of siren noise. PeaceMaker will not disrupt the siren sounding in this case.



If the burglar returns to the house an hour after the siren has scared him away, the alarm system will again be triggered and the siren will sound. PeaceMaker will not disrupt the siren sounding in this case.



In all three cases described above, PeaceMaker will allow the siren to warn neighbors of the break-in and scare away the crook. PeaceMaker is designed to allow properly operating alarm systems to sound their sirens.

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A Typical Home Alarm – Generating False Alarms

If the typical home alarm never resets itself after 5 minutes then something is very wrong with the system. A siren may be "stuck on" because of component aging or failure. A malfunction may also be caused by environmental conditions such as moisture, lightening, or heat. In the "typical home" setup, PeaceMaker detects this Type 1 extended siren sounding with no interruption and silences the siren at the 5 minute, 30 second mark.



Type 1 - Siren never resets. PeaceMaker silences after 5 min, 30 sec.

PeaceMaker permits continual re-triggerings. But if the home alarm re-triggers continually for greater than 10 minutes, PeaceMaker determines that a Type 2 repeated siren sounding has occurred. At the 10-minute mark, the siren is silenced. This type of endless re-triggering is common, and is typically caused by a malfunctioning sensor. If it were an actual break-in, there would have been enough siren noise to notify neighbors of the crime.



Type 2 - Siren retriggerers continually. PeaceMaker silences after 10 minutes.

PeaceMaker permits intermittent re-triggerings. But if the home alarm triggers for a 3rd time in an 8-hour time window, PeaceMaker determines that a Type 3 repeated siren sounding has occurred. PeaceMaker permits the next 2 triggerings to sound the siren for 30 seconds before silencing the siren. The siren is not immediately silenced, to deal with the unlikely event that a brazen thief has repeatedly returned to the crime scene. After these 2 abbreviated soundings, any subsequent triggerings within the 8-hour time window are immediately silenced. If actual repeated break-ins were occurring and the crook was not scared away or caught after these 4 siren soundings, then your alarm system is going to be ineffective with or without PeaceMaker! Overly sensitive sensors or pets moving within the house commonly cause this type of intermittent false alarm re-triggering.



Type 3 - Siren retriggerers intermittently over several hours. PeaceMaker starts silencing at 3rd triggering.

For Type 1, 2, and 3 detection, PeaceMaker has built in intelligence to avoid conditions that would result in prematurely silencing of the siren. For example, Type 2 retriggerings must occur within 1 minute of the alarm system resetting and re-arming itself. Type 3 siren soundings must be separated by a minimum of 1 minute or they will be considered to be a continuation of the current sounding, and not a new triggering. This prevents a series of quick siren soundings in succession from satisfying Type 3 siren silencing for the next 8-hour time window. Finally, siren-on pulses shorter than 20 seconds are ignored and not considered to be a new triggering of the alarm. This allows PeaceMaker to operate properly with an alarm system that chirps its siren during arming and disarming.

PeaceMaker stops silencing the siren if the condition responsible for the silencing (Type 1, 2, or 3) no longer holds true. In this manner, PeaceMaker automatically resets itself and allows future legitimate alarm triggerings to properly sound the alarm system's siren.

Remember, too, that the time and trigger values required for siren silencing described in this example are for a "typical home". The user easily selects values for his/her specific application during PeaceMaker setup using the bank of switches on the back of PeaceMaker.

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My alarm system already resets after sounding the siren for several minutes. Why should I add PeaceMaker?

In spite of the fact that alarm systems are designed to reset and re-arm themselves after several minutes of sounding a siren, there are many common conditions that result in false alarms with extended or repeated siren soundings. These include a malfunctioning control unit that produces a steady-on siren, defective sensors that continually re-trigger an alarm system, and overly sensitive sensors that intermittently re-trigger an alarm system. Improper alarm installation or use, such as accidentally arming a home's motion detectors when there are pets in the house, can also result in intermittent alarm system re-triggering.

Such home, business, car, and boat false alarms are still common even though the industry has focused on the false alarm prevention issue for years. These false alarms not only annoy neighbors, but can also result in hefty city fines because of restrictive noise and false alarm bylaws. They end up reducing the overall effectiveness of your own alarm system since neighbors will begin to ignore alarm sirens altogether if communities are regularly and repeatedly forced to endure these noisy false alarms.

PeaceMaker silences extended or repeated siren soundings produced by your alarm system. And because PeaceMaker is a completely separate circuit from your alarm system, it will still function properly when your alarm system is malfunctioning.

But what if I'm actually being burglarized and PeaceMaker shuts off the siren?

Statistically, most burglaries occur in no greater than an [8 minute timespan](#). PeaceMaker will still permit your siren to sound an alarm and to

re-trigger several times during an actual theft. Read through the [Properly Operating Alarm](#) description for details. PeaceMaker will only silence the siren after repeated or extended alarm siren soundings, usually long after the burglar is gone.

Once the siren sounds, the thief must assume that the police are on their way regardless of whether the siren eventually turns off. And since PeaceMaker only silences extended or repeated siren soundings, it will permit the siren to properly sound in those first few critical minutes when an actual break-in occurs.

I'm still not convinced. What if the burglar is still there?

Remember that even without a PeaceMaker installed, a properly operating alarm system will still reset and silence the siren after a few short minutes. Also, once inside your home, business, or car a thief may disable an alarm through force. It is those first few minutes of siren sounding that alert neighbors and scare away thieves - and PeaceMaker does not prevent the siren from sounding in this case.

PeaceMaker is specifically designed to search for siren sounding characteristics associated with annoying false alarms, such as extended or repeated siren soundings, and to temporarily silence the siren only when these characteristics are identified in your alarm system.

Will it work with my type of alarm system?

Yes. PeaceMaker is designed to work with almost all types of home, commercial, automobile, and marine alarm systems, as long as there is access to the wire running to a standard siren, bell, buzzer, beeper, or horn. There are two types of sirens commonly used in alarm systems: 8-ohm "speaker sirens" and 6-15 volt dc sirens with built-in siren drivers. PeaceMaker will function properly with either of these siren types.

What are the required electrical specifications of the siren, speaker, bell, or horn?

Direct current (dc) sirens, bells, buzzers, beepers, or car-horn relays must operate at 6-15 volts dc and have a maximum current load of 7 amperes. Speaker sirens must have an impedance of 4-16 ohms and a maximum power load of 30 watts.

My car alarm honks my car horn in the event of a break-in. Will PeaceMaker work on this type of system?

Yes. There are special installation instructions and settings on the back of PeaceMaker for honking car horn alarms.

My alarm siren chirps when I arm or disarm it. Will PeaceMaker get confused by this?

No. PeaceMaker has built in intelligence to filter out and ignore short on and off pulses of the siren.

Is PeaceMaker easy to install?

Yes. PeaceMaker simply attaches to the power and ground wire running to your alarm system's siren - or to the car horn relay in the case of car horn alarms. Because PeaceMaker uses the power from the alarm's siren wire, it requires no batteries or separate power input and requires no maintenance. This makes installation a snap.

Where should I install PeaceMaker?

PeaceMaker can be installed anywhere on the wire running to your siren. It is recommended that PeaceMaker not be installed where it may be visible to a thief. Rather, it should ideally be secured inside your alarm system box or out of sight in a closet or attic. When installed in your car, it should be located inside the passenger compartment and out of sight under the dash. PeaceMaker should not be exposed to moisture or temperatures outside of the -20C to +70C (-5F to +160F) range.

What does the indicator light do?

During a false alarm, and for 16 hours after a false alarm, PeaceMaker's indicator light and built-in beeper will flash/beep to inform you that PeaceMaker silenced your siren, and the reason for the silencing.

What types of extended/repeated siren soundings does PeaceMaker detect and silence?

Type 1 - The siren remained on steadily. Since a properly operating, triggered alarm system should reset itself after a short period of time, usually a few minutes, this type of extended siren sounding typically indicates a serious malfunction. Possible causes include environmentally related failure (moisture, lightening, temperature extremes, vibration), electronic component failure, or program error.

Type 2 - The siren re-triggered continually. The siren sounds for a few minutes, goes silent for a second or so, and then re-triggers. This cycle is repeated over and over. This type of repeated siren sounding is typically caused by a malfunctioning sensor which is continually sending an "I'm triggered" signal to the alarm system's control unit. When the control unit properly resets and re-arms the alarm system, it is immediately re-triggered by this faulty sensor.

Type 3 - The siren re-triggered intermittently. The siren sounds for a few minutes, goes silent for several minutes or even hours, and then re-triggers. This cycle is repeated over and over. This type of repeated siren sounding can be caused by an over sensitive sensor, such as a car alarm's vibration/sound sensor that triggers every time a truck drives by or home's window sensor that triggers in high humidity.

This type of false alarm is also very common in homes with pets. The owner leaves the house and intends to arm only the perimeter alarm system, but accidentally arms the interior motion sensors. While he/she is gone, the alarm system is triggered whenever the pet moves about the house.

What does the RESET button on PeaceMaker do?

The reset button has four functions:

1. It stops PeaceMaker from flashing/beeping. The flashing/beeping is used to inform the operator of the reason for siren silencing.
2. It clears all memory of alarm triggering history from its memory. This is especially important for Type 3, which bases its decision to silence the siren on the previous 2 to 8 hours of alarm triggering history.
3. It immediately stops PeaceMaker from silencing the siren.

4. It locks in any changes a user makes to the row of 10 switches inside the back of the unit.

What if a burglar presses PeaceMaker's RESET button during silencing?

Unfortunately for him, PeaceMaker will stop its silencing and the siren will sound!

Do I have to press RESET after a false alarm?

No. You may press reset at your convenience to stop PeaceMaker from flashing/beeping, which it does to inform you of siren silencing. Even if you don't push the reset button, PeaceMaker will automatically enable siren soundings after Type 1, Type 2, and Type 3 false alarm conditions no longer hold.

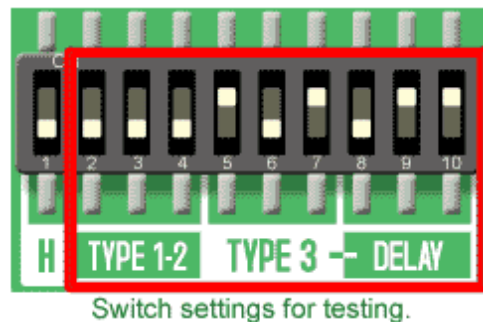
After a false alarm, PeaceMaker will eventually run out of charge (typically in the 12 to 24 hour range) and will go to sleep. This will have the same effect as pressing the reset button. The next time the siren turns on, PeaceMaker will instantly recharge from the siren wire and will begin operating – silencing extended or repeat siren soundings.

Could PeaceMaker itself generate a false alarm siren if it malfunctions?

No. PeaceMaker obtains power directly from the alarm system's siren wire. If the alarm system isn't driving the siren, there is no power available for PeaceMaker to accidentally turn on the siren.

How can I test PeaceMaker without generating a lot of siren noise?

PeaceMaker Test Procedure. After connecting PeaceMaker to your alarm system, it is recommended that you test PeaceMaker to ensure that it properly silences your siren when you repeatedly re-trigger your alarm. If you want to avoid generating a lot of siren noise during this testing, temporarily set PeaceMaker's Type 1-2 switches to "down-down-down", Type 3 switches to "up-down-up", and Delay switches to "down-up-up". This setting is shown below. Set the Honking Horn switch according to your type of siren, bell, or buzzer.



To test PeaceMaker, perform the following steps:

1. Press PeaceMaker's RESET button.
2. Trigger your alarm and allow the siren to sound for 25 seconds.
3. Reset your alarm system (don't reset PeaceMaker) and allow the siren to be silent for 45 seconds.
4. Re-trigger your alarm system.

If your siren is immediately silenced, PeaceMaker is functioning properly and your installation is correct. Set the Type 1-2, Type 3, and Delay switches according to your specific needs and complete your installation. If you repeat this test, be sure to first reset PeaceMaker by pressing its RESET button.

When my siren first sounds, PeaceMaker's indicator light takes about 10 seconds to turn on. Is there something wrong with my PeaceMaker?

No. When PeaceMaker detects the siren turning on, after being off for a long period of time, the internal circuitry of PeaceMaker needs to recharge before searching for extended or repeated siren soundings. This process typically takes about 10 seconds.

After installing PeaceMaker, my siren won't sound at all. What's wrong?

PeaceMaker's default state is to allow your siren to sound. If it won't sound when you trigger your alarm, this indicates that you have improperly wired up PeaceMaker. Check that the input and output wiring is correct and that the polarities of these wires are not reversed.

PeaceMaker doesn't seem to silence my siren. What's wrong?

Follow the [PeaceMaker Test Procedure](#) described above to test your PeaceMaker. If it does not properly silence the siren, check for the following:

Is the Honking Switch properly set? If your car alarm honks the car horn when it is triggered or if your alarm's 8-ohm speaker siren "plays" a variety of tone patterns when triggered and some of these tone patterns have brief silent periods, the Honking Switch should be up (turned on). This switch should be down (turned off) for all other types of sirens, bells, and buzzers. More information on the Honking Switch is provided in the [Detailed Setup Instructions](#).

Does your alarm system use an 8-ohm speaker siren? Speaker sirens have driver circuits built into the alarm module rather than the siren. The siren simply acts as a speaker. If the polarity of the wires running from your alarm module to PeaceMaker is reversed, PeaceMaker's ALARM indicator may still light up during siren soundings, but it will never properly silence the siren. Try reversing the polarity of the wire running to PeaceMaker if you are uncertain of the proper polarity and re-test your system, or have a qualified technician with a multi-tester check that the "+" wire is connected to the FROM ALARM terminal and "-" wire is connected to the COMMON terminal.

Does your alarm system use a 6-15 volt DC siren, bell, or buzzer? Check that the input and output wiring is connected correctly. If the polarity of PeaceMaker's input and output wires are **both** reversed, your siren will still sound but PeaceMaker will never properly silence the siren.

When PeaceMaker silences my siren, a loud buzzing noise comes from inside PeaceMaker! What's wrong?

You have the wires running to/from PeaceMaker reversed. The wire running to the "FROM ALARM" should run to the "TO SIREN" terminal, and the wire running from the "TO SIREN" terminal should instead run from the "FROM ALARM" terminal.

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Quick Setup Instructions

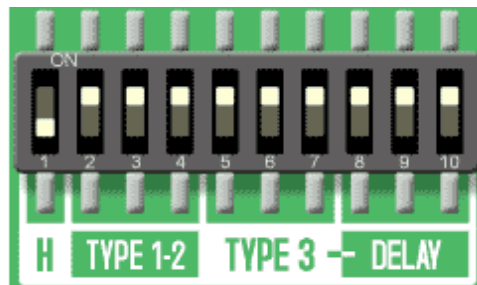
Before installation, PeaceMaker must be configured by setting the row of 10 switches inside the back of the unit. These settings tell PeaceMaker specifically when the user wants siren silencing to occur. After setting the 10 switches, be sure to momentarily press PeaceMaker's reset button to lock in all of the new settings.

Quick Setup illustrations are provided below for typical users of PeaceMaker. These are the recommended default settings for the product. Use these settings to configure PeaceMaker for the average home, business, car, or boat alarm system. These default settings provide an excellent balance between the maintenance of an effective break-in deterrent and the minimization of noise pollution during false alarms.

Some users may prefer a "quieter" setting, where PeaceMaker silences the siren at the first hint of extended or repeated siren soundings. Others may want a "noisier" setting, where silencing does not occur until the siren has sounded for longer periods of time or has triggered many times. [Detailed Setup Instructions](#) are provided for users who would like to customize PeaceMaker's settings for their specific needs or would like more detailed setup information.

Quick Start – Typical Home / Business Alarm

Set the row of 10 switches as shown below then momentarily press PeaceMaker's reset button.



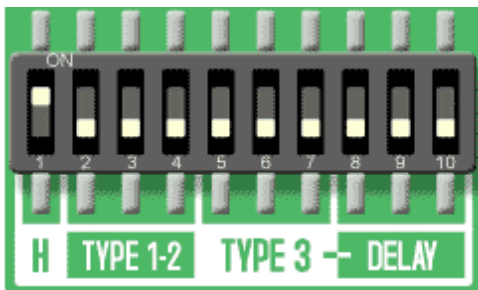
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Quick Start – Typical Car / Boat Alarm 1

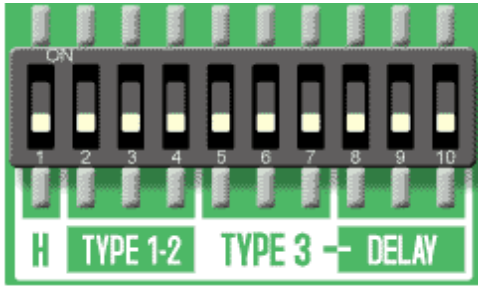
If your car alarm honks the car horn when it is triggered **or** if your car alarm siren "plays" a variety of tone patterns when triggered and some of these tone patterns have brief silent periods, set the row of 10 switches as shown below then momentarily press PeaceMaker's reset button.



Typical Car / Boat Alarm with Horn

Quick Start – Typical Car / Boat Alarm 2

If your car alarm sounds its own siren without any silent periods when it is triggered, set the row of ten switches as shown below then momentarily press PeaceMaker's reset button. Your siren may sound a single tone or may play a variety of tones, as long as it doesn't have momentary silent gaps.



Typical Car / Boat Alarm with Siren

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Detailed Setup Instructions

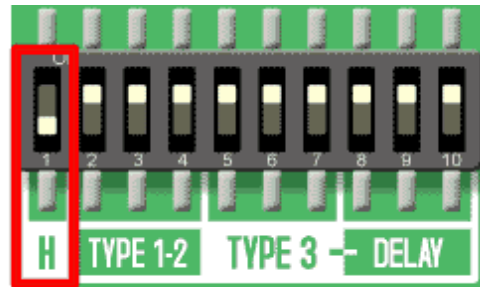
A typical PeaceMaker user can skip this page and refer, instead, to the [Quick Setup Instructions](#). But for advanced users who wish to customize their PeaceMaker's siren silencing criteria or want a more thorough understanding of PeaceMaker's various settings, the following steps can be followed.

Before installation, PeaceMaker must be configured by setting the row of 10 switches inside the back of the unit. These settings tell PeaceMaker specifically when you want siren silencing to occur. After setting the 10 switches, be sure to momentarily press PeaceMaker's reset button to lock in all of the new settings.

STEP 1 – Honking Switch

When triggered, a honking car-horn alarm cycles the horn on and off regularly, usually once every second. In order to prevent PeaceMaker from considering each of these short periods to be a new alarm triggering, the Honking Switch must be properly set.

The Honking Switch should be **turned off** for most alarm systems, including all 6-15 volt dc sirens (even if they generate variable/multiple tones), bells, and buzzers. It should also be turned off for all 8-ohm speaker sirens that don't generate regular silent gaps when sounding, even if they generate variable/multiple tones. Almost all home and business alarm systems require this setting to be off. The off setting is shown below.



Alarm System with Siren

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Two types of alarm systems require the Honking Switch to be **turned on** because the audible alarm has regular silent periods. These short silent gaps momentarily result in zero volts on the siren wire. The two types are:

1. A car alarm system that honks the car's horn when triggered. Click below to hear an example of a honking car horn alarm.



The honking car horn turns on-off, on-off, on-off... To prevent PeaceMaker from considering the silent periods to be the start of new triggerings, the Honking Switch should be turned on.

2. An alarm system using an 8-ohm "speaker siren" (speaker sirens have no built-in siren driver circuit in the siren) that "plays" a variety of tone patterns when triggered - and some of these tone patterns have brief silent periods. These are often found in car alarms. You can hear

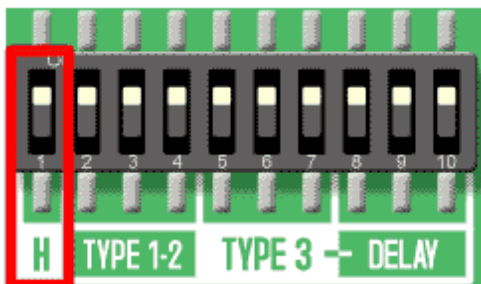
PeaceMaker Alarm Siren Silencer - Detailed Setup

brief silent periods in some of the tone patterns, usually patterns that generate a honking sound effect. Click below to hear an example of a siren with brief silent periods.



Listen for two brief silent periods when the siren "honks" twice approximately 3/4 of the way through the siren's tone pattern. If there are any silent periods in your speaker siren's tone patterns, the Honking Switch should be turned on.

The on setting for the Honking Switch is shown below.



Car Alarm System with Honking Horn or 8-Ohm Speaker Siren with Silent Gaps

STEP 2 – Type 1 and Type 2 Setup

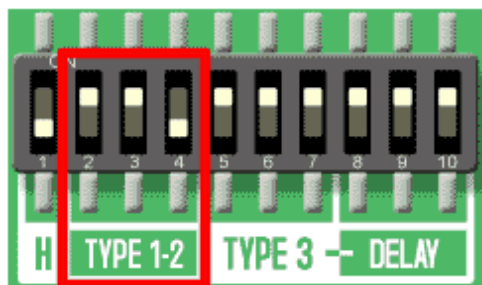
Read the owner's manual for your alarm system, or consult your alarm installer, to determine its "reset time". This is how long the siren will sound when the alarm is triggered, without PeaceMaker attached, until it automatically resets and rearms itself. Most house or business alarms have a reset time of 3 minutes or 5 minutes. Most car alarms have a reset time of just 30 seconds.

You are now going to configure PeaceMaker for Type 1 and Type 2 silencing. Start by matching your alarm system's reset time to the "Your Alarm System's Reset Time" column in the table below.

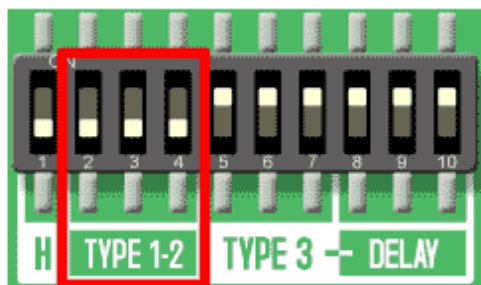
YOUR ALARM SYSTEM'S RESET TIME (MINUTES)	CHOOSE YOUR DESIRED TYPE 2 SILENCING	TIME UNTIL TYPE 1 SILENCING (MINUTES)	TIME UNTIL TYPE 2 SILENCING (MINUTES)	SET TYPE 1-2 SWITCHES AS INDICATED BELOW
LESS THAN 1	TYPICAL CAR	1	3	DOWN-DOWN-DOWN
LESS THAN 1	QUIET CAR	1	1.5	DOWN-DOWN-UP
1 TO 3.5	QUIET HOME / NOISY CAR	3.5	6	DOWN-UP-DOWN
1 TO 3.5	TYPICAL HOME	3.5	9	DOWN-UP-UP
OVER 5.5	VERY NOISY HOME	11	20	UP-DOWN-DOWN
3.5 TO 5.5	QUIET HOME	5.5	5.5	UP-DOWN-UP
3.5 TO 5.5	NOISY HOME	5.5	15	UP-UP-DOWN
3.5 TO 5.5	TYPICAL HOME	5.5	10	UP-UP-UP

Next, decide whether you want a "quieter", "typical" (recommended), or "noisier" setting for Type 2 silencing and choose an appropriate row in the above table. During continual re-triggerings, a quieter setting silences the siren sooner while a noisier setting silences the siren after it has sounded for a longer period of time.

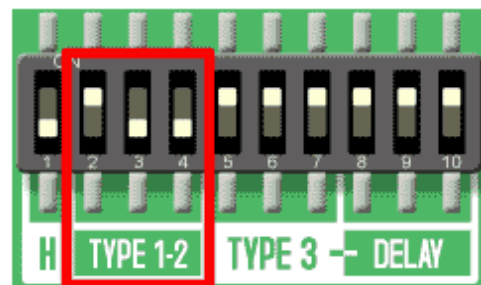
Enter the required switch settings shown in the last column into the Type 1-2 Switches. Several examples are provided.



5-Minute Reset Time, Noisy Home



30-Second Reset Time, Typical Car



10-Minute Reset Time, Very Noisy Home

STEP 3 – Type 3 Setup

You are now going to configure PeaceMaker for Type 3 silencing, which is characterized by intermittent re-triggerings. One example of a Type 3 false alarm is a household pet setting off your alarm system throughout the day every time it moves past a motion detector. Another

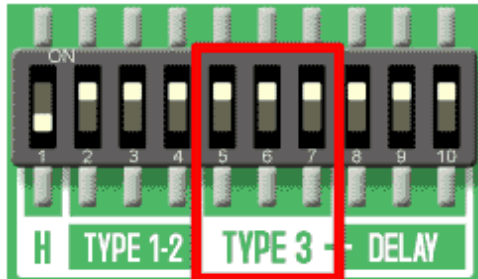
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example is a car alarm sounding every time a truck drives past it.

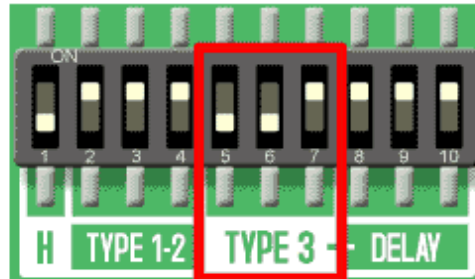
Choose the time window and number of triggerings until silencing from the table below.

CHOOSE YOUR DESIRED TYPE 3 SILENCING	TIME WINDOW (HOURS)	START SILENCING AT START OF THIS TRIGGERING	SET TYPE 3 SWITCHES AS INDICATED BELOW
TYPICAL CAR	2	3RD	DOWN-DOWN-DOWN
NOISIEST	2	4TH	DOWN-DOWN-UP
TYPICAL CAR / HOME	4	3RD	DOWN-UP-DOWN
NOISY	4	4TH	DOWN-UP-UP
NO TYPE 3 SILENCING	DISABLED	DISABLED	UP-DOWN-DOWN
QUIETEST	8	2ND	UP-DOWN-UP
NOISY	8	4TH	UP-UP-DOWN
TYPICAL HOME	8	3RD	UP-UP-UP

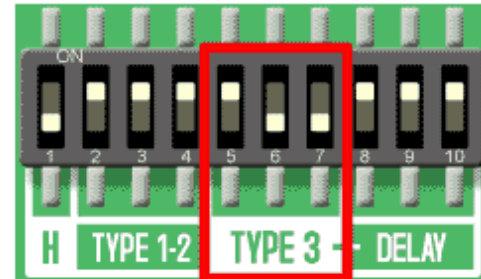
Enter the required switch settings shown in the last column into the Type 3 Switches. Several examples are provided.



Start silencing the siren if it has triggered 3 or more times in the last 8 hours.



Start silencing the siren if it has triggered 4 or more times in the last 2 hours.



Disable Type 3 siren silencing.

STEP 4 – Type 3 Delay Setup

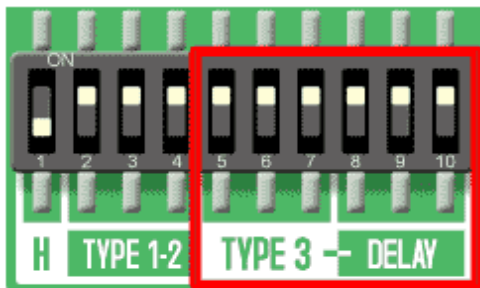
When Type 3 silencing begins to occur, as defined by your settings in Step 3 above, you may want to immediately silence the siren. Alternatively, you may wish to sound the siren at each new triggering, but only for an abbreviated period of time, just in case a crook has returned several times to your property. The abbreviated siren soundings cut down on noise pollution, yet still provide security in the unlikely event that a brazen thief returns repeatedly to the crime scene. Determine the setting that best meets your needs.

PeaceMaker can also be configured to automatically replace the delayed silencing on each new triggering with immediate silencing if the alarm system continues to be intermittently re-triggered.

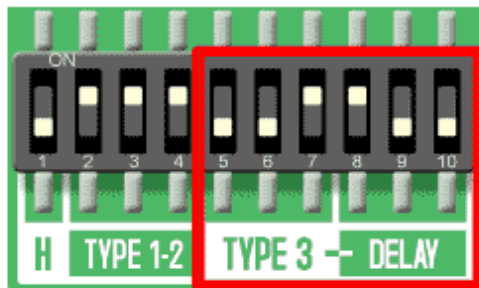
The optional delay consists of two values: the number of triggerings with a delay, and the delay in seconds for each triggering until silencing occurs. Choose a pair of values that best meet your needs from the table below.

CHOOSE YOUR DESIRED TYPE 3 DELAY	NUMBER OF TRIGGERINGS WITH A SILENCING DELAY	DELAY (SECONDS)	SET DELAY SWITCHES AS INDICATED BELOW
TYPICAL CAR	2	10	DOWN-DOWN-DOWN
NOISY	3	10	DOWN-DOWN-UP
NOISY	ALWAYS HAVE SILENCING DELAY	10	DOWN-UP-DOWN
QUIETEST	IMMEDIATE SILENCING	N/A	DOWN-UP-UP
NOISIEST	ALWAYS HAVE SILENCING DELAY	30	UP-DOWN-DOWN
QUIET	1	30	UP-DOWN-UP
NOISY	3	30	UP-UP-DOWN
TYPICAL HOME	2	30	UP-UP-UP

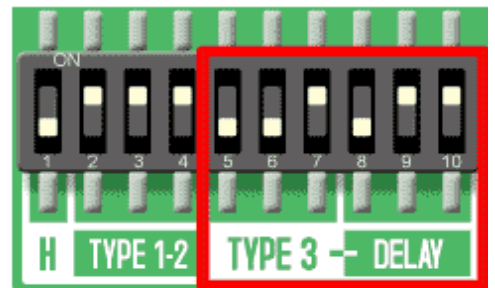
Enter the required switch settings shown in the last column into the Delay Switches. Several examples, combined with the Type 3 Switch settings, are provided. After completing this final switch configuration, be sure to momentarily press PeaceMaker's reset button to lock in all of the new switch settings.



Start silencing the siren if it has triggered 3 or more times in the last 8 hours. On the 3rd and 4th triggering, allow the siren to sound for 30 seconds only. On the 5th, and all subsequent triggerings, silence the siren immediately.



Start silencing the siren if it has triggered 4 or more times in the last 2 hours. On the 4th triggering, and all subsequent triggerings, allow the siren to sound for 30 seconds only.



Start silencing the siren if it has triggered 4 or more times in the last 2 hours. On the 4th triggering, and all subsequent triggerings, silence the siren immediately.

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Installation Instructions

PeaceMaker is designed to install easily to most alarm systems, as long as there is access to the wire running to a siren, speaker, bell, buzzer, or horn-relay (in the case of car alarms that honk the horn).





Because PeaceMaker uses the power from the alarm's siren wire, it requires no batteries or separate power input and requires no maintenance.

For homes and businesses, it is recommended that PeaceMaker be located inside a locked alarm box or out of sight in a closet, crawl space, or attic. For cars, PeaceMaker should be hidden out of sight in the passenger compartment.

Never install PeaceMaker In The Following Locations

-  Outdoors.
-  Where it may be subjected to moisture, rain, direct sunlight, or temperatures outside the -20C to +70C (-5F to +160F) range.
-  Inside the engine compartment of an automobile.
-  Where it may be visible to a thief.

Tools Required for Installation

-  Wire cutters (or sharp knife).
-  Wire strippers (or sharp knife).
-  Small slot screwdriver.
-  Phillips No. 1 screwdriver.

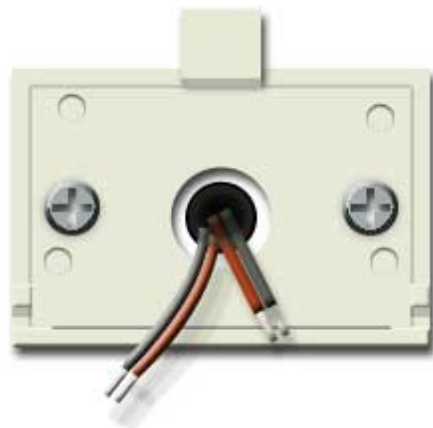
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Install PeaceMaker in Six Easy Steps

STEP 1 - Before beginning installation, ensure that PeaceMaker has been properly configured, as described in the [Quick Setup Instructions](#). Advanced users should refer to the [Detailed Setup Instructions](#). After configuring the row of 10 switches inside the back of PeaceMaker, be sure to momentarily press the reset button to lock in all of the new settings.

STEP 2 – Secure the back panel of PeaceMaker to a wall or mounting surface using the two included 1” screws. Wiring for PeaceMaker should pass through the large circular opening in the center of the panel.

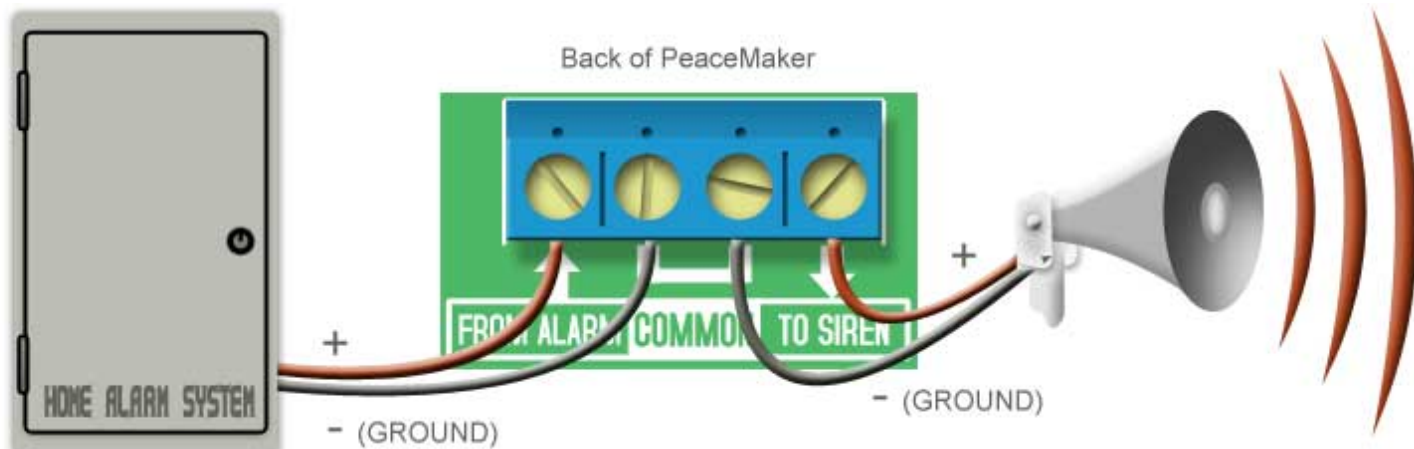


STEP 3 – Connect the Wires

It is important to ensure that the wiring polarity is correct. If the "+" and "-" wires are reversed, the siren may still sound when tested but may not be properly silenced by PeaceMaker. For some types of alarm systems with "speaker sirens", PeaceMaker's indicator may appear to properly light even if the siren wires are connected backwards. It is therefore recommended that you test PeaceMaker after installation by operating the siren until it is actually silenced by PeaceMaker.

Wiring Instructions – For A Home/Business/Car/Boat Alarm That Uses A Siren, Speaker, Bell, or Buzzer

Cut the wire running from your alarm system to your siren and connect PeaceMaker between the alarm system and siren as shown.



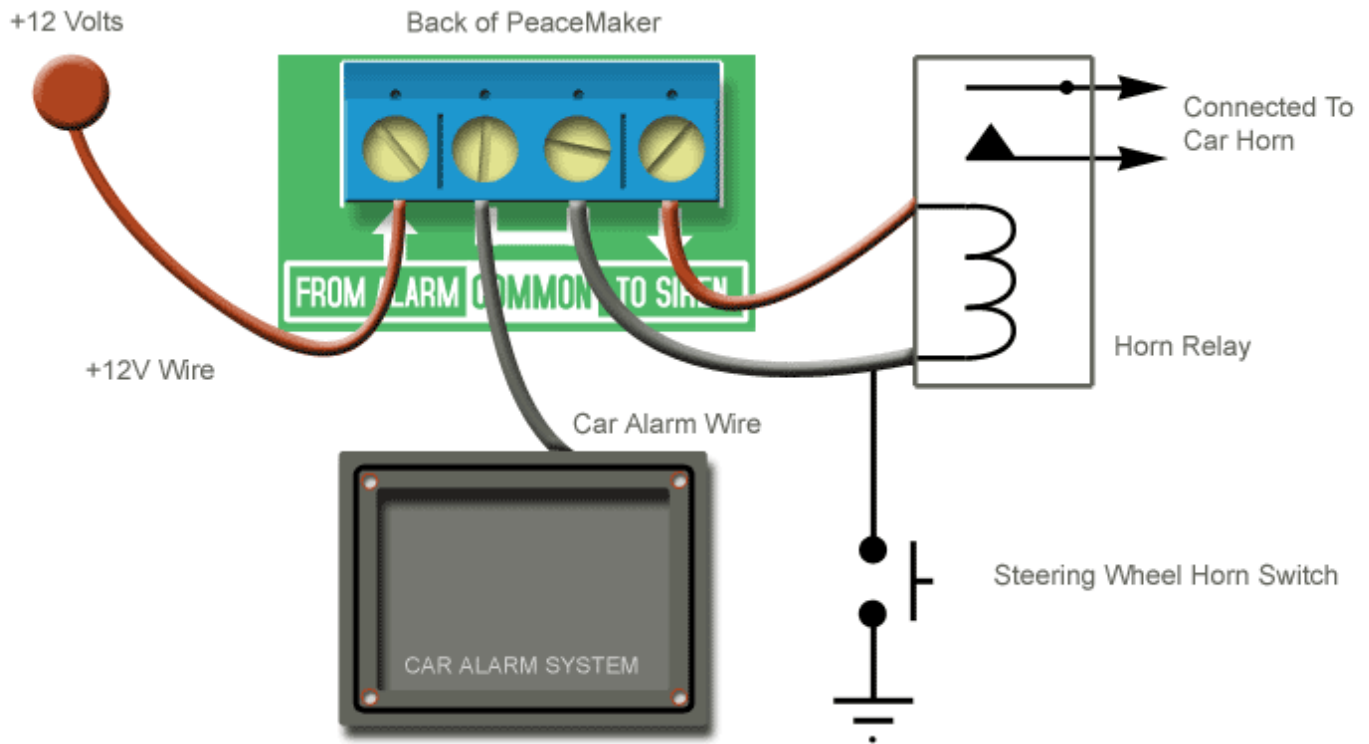
Wiring Instructions – For A Car Alarm That Honks The Car Horn

Important Precaution For Car Alarms That Honk The Horn - Never operate your motor vehicle if PeaceMaker's indicator is flashing/beeping. Press PeaceMaker's reset button first to ensure that PeaceMaker will not silence your car horn when you attempt to honk the horn while driving.

In most cars, +12 volts runs to one side of the horn relay coil and a car alarm is connected to the other side of the horn relay coil. Ensure this wiring configuration is used by your car alarm before proceeding.

To add PeaceMaker, cut the +12V wire (red wire in illustration) and connect the resulting ends to PeaceMaker's connector inside the back of the unit, as shown. Next, cut the car alarm wire (black wire in illustration) and connect the resulting ends to the "common" terminals on PeaceMaker's connector, as shown. Refer to your car's horn relay and alarm wiring diagrams for details specific to your make of automobile. Ensure that your car horn operates properly after installation is complete. Do not drive your car if the automobile horn does not operate when you press the steering wheel switch.

PeaceMaker Alarm Siren Silencer - Installation



STEP 4 – You may test your PeaceMaker by triggering your alarm system several times and ensuring that siren silencing properly occurs, as defined by your specific switch settings. To reduce the amount of noise pollution generated during testing, it is recommended that you follow the [PeaceMaker Test Procedure](#). Be sure to momentarily press PeaceMaker's reset button whenever you change the settings on the row of 10 switches inside the back of the unit.

STEP 5 – Push PeaceMaker onto the back panel and click down to lock in place.

1. Push onto back panel.
2. Click down.



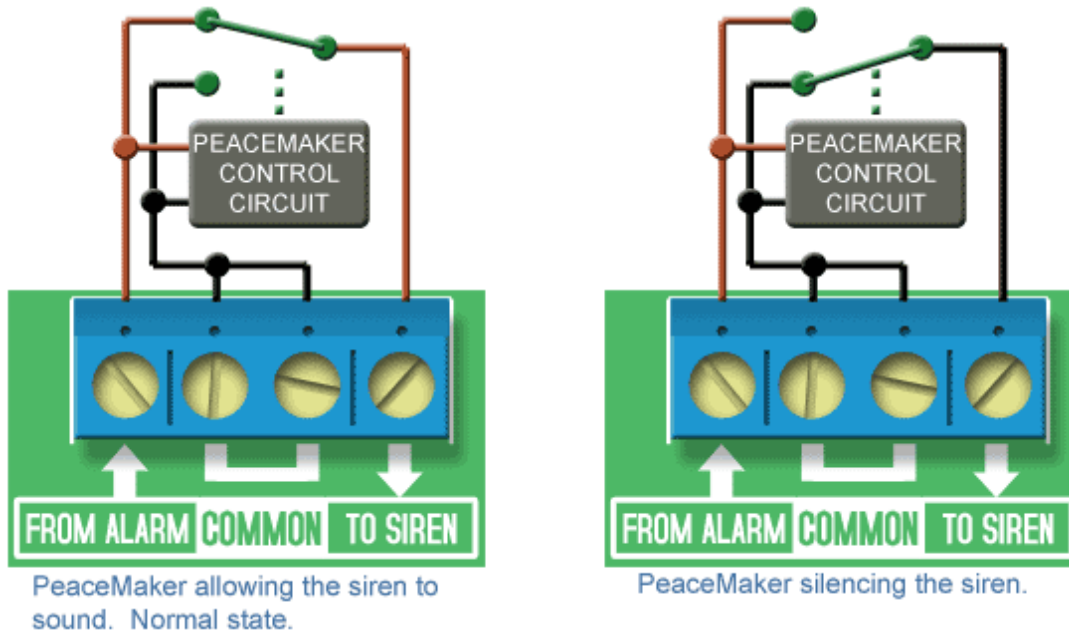
STEP 6 – Further secure PeaceMaker in place with the two included 1½"-screws. You're done!



PeaceMaker Schematic

Understanding the internal wiring of PeaceMaker may assist in unusual installations. A simplified schematic is shown below. Note the follow:

1. The two "COMMON" terminals are connected together internally.
2. If the voltage across "FROM ALARM" terminal and "COMMON" terminal is greater than approximately 6 volts, PeaceMaker considers the siren driver to be on.
3. When silencing occurs, PeaceMaker's control circuit disconnects "TO SIREN" from "FROM ALARM" and connects it, instead, to "COMMON".



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Operational Instructions

PeaceMaker is very easy to use! It never requires batteries or maintenance and, in the normal course of operation, a user never needs to interact with the unit. Even if PeaceMaker silences the siren due to extended or repeated siren soundings, it will eventually reset itself automatically, allowing future legitimate alarms to sound the siren.

For users who are interested in knowing about their extended or repeated siren soundings, PeaceMaker provides an ALARM indicator light and internal beeper to signal current and past status of the unit.

Three Types Of Siren Silencing

Type 1 - The siren remained on steadily. Since a properly operating, triggered alarm system should reset itself after a short period of time, usually a few minutes, this type of extended siren sounding typically indicates a serious malfunction. Possible causes include environmentally related failure (moisture, lightening, temperature extremes, vibration), electronic component failure, or program error.

Type 2 - The siren re-triggered continually. The siren sounds for a few minutes, goes silent for a second or so, and then re-triggers. This cycle is repeated over and over. This type of repeated siren sounding is typically caused by a malfunctioning sensor which is continually sending an "I'm triggered" signal to the alarm system's control unit. An example is a sensor with corroded contacts. When the control unit properly resets and re-arms the alarm system, it is immediately re-triggered by this faulty sensor.

Type 3 - The siren re-triggered intermittently. The siren sounds for a few minutes, goes silent for several minutes or even hours, and then re-triggers. This cycle is repeated over and over. This type of repeated siren sounding can be caused by an overly-sensitive sensor, such as a car alarm's vibration/sound sensor that triggers every time a truck drives by or a home's magnetic-reed door switch that triggers when a gust of wind vibrates the door.

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A Type 3 false alarm is also very common in homes with pets. The owner leaves the house and intends to arm only the perimeter alarm system, but accidentally arms the interior motion sensors. While he/she is gone, the alarm system is triggered whenever the pet moves about the house.

ALARM Indicator Status

Indicator Off – PeaceMaker is watching for extended or repeated siren soundings.

Indicator Steady On – The siren is sounding.

Indicator Flashing 1 Time Every 10 Seconds – Type 1 silencing is currently occurring because the siren turned on and stayed on for an extended length of time. The siren would be sounding if PeaceMaker were not silencing it. Disarm the alarm system before pushing RESET or the siren will sound.

Indicator Flashing 2 Times Every 10 Seconds – Type 2 silencing is currently occurring because the siren re-triggered continually. The siren would be sounding if PeaceMaker were not silencing it. Disarm the alarm system before pushing RESET or the siren will sound.

Indicator Flashing 3 Times Every 10 Seconds – Type 3 silencing is currently occurring because the siren re-triggered intermittently. The

PeaceMaker Alarm Siren Silencer - Operational Instructions

siren would be sounding if PeaceMaker were not silencing it. Disarm the alarm system before pushing RESET or the siren will sound.

Indicator Flashing 1 Time Every Minute – Type 1 silencing occurred in the past 16 hours because the siren turned on and stayed on an extended length of time.

Indicator Flashing 2 Times Every Minute – Type 2 silencing occurred in the past 16 hours because the siren re-triggered continually.

Indicator Flashing 3 Times Every Minute – Type 3 silencing occurred in the past 16 hours because the siren re-triggered intermittently.

Reset Button

The reset button has four functions:

1. It stops PeaceMaker from flashing/beeping. The flashing/beeping is used to inform the operator of the reason for siren silencing.
2. It clears all memory of alarm triggering history from its memory. This is especially important for Type 3, which bases its decision to silence the siren on the previous 2 to 8 hours of alarm triggering history.
3. It immediately stops PeaceMaker from silencing the siren.
4. It locks in any changes a user makes to the row of 10 switches inside the back of the unit.

You may press reset at your convenience to stop PeaceMaker from flashing/beeping, which it does to inform you of siren silencing. Even if you don't push the reset button, PeaceMaker will automatically enable siren soundings after Type 1, Type 2, and Type 3 false alarm conditions no longer hold.

After a false alarm, PeaceMaker will eventually run out of charge (typically in the 12 to 24 hour range) and will go to sleep. This will have the same effect as pressing the reset button. The next time the siren turns on, PeaceMaker will instantly recharge from the siren wire and will begin operating – silencing extended or repeated siren soundings.

Important Precaution For Car Alarms That Honk The Horn

Never operate your motor vehicle if PeaceMaker's indicator is flashing/beeping. Press PeaceMaker's reset button first to ensure that PeaceMaker will not silence your car horn when you attempt to honk the horn while driving.

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PeaceMaker One Year Limited Warranty

Warrantor: Spiral Technologies Limited.

Elements of Warranty: Spiral warrants, for one year, to the original retail owner, this product to be free from defects in materials and craftsmanship with only the exclusions set out below.

Warranty Duration: This warranty to the original user shall terminate and be of no further effect 12 months after the date of original sale. The warranty is invalid if the product is (A) damaged or not maintained as reasonable or necessary, (B) modified or altered, (C) improperly installed, (D) serviced or repaired by someone other than an authorized Spiral service center for a defect or malfunction covered by this warranty, (E) used outdoors, subjected to moisture, rain, or ambient temperatures outside of the -20C to +70C (-5F to +160F) range.

Statement of Remedy: In the event that the product does not conform to this warranty at any time while this warranty is in effect, the warrantor will repair the defect and return it to you without charge for parts, service, or any other cost (except shipping and handling) incurred by the warrantor or its representatives in connection with the performance of this warranty. Any damages or loss occurring during shipment are not covered by this warranty but are the responsibility of the carrier(s). THE LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED, OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OF PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is void outside the U.S.A. and Canada.

Procedure for Obtaining Performance of Warranty: If, after following the setup, installation, and operational instructions for PeaceMaker, you believe that the product is defective, please review the PeaceMaker web site and the [FAQ](#) for the latest troubleshooting hints. If this does not solve your problem, return the product to your retailer with your original sales receipt.

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Liability Statement

Spiral Technologies Limited shall not be responsible and assumes no liability for injury, theft, loss, or damage as a result, in part or in full, of the installation and/or use of PeaceMaker.

PeaceMaker Trademark and Patent

PEACEMAKER and the PEACEMAKER logo are U.S. registered trademarks of Spiral Technologies Limited. MADE IN CANADA. Copyright 2003 Spiral Technologies Limited. All rights reserved. U.S. and Foreign Patents Pending.

FCC Compliance Statement

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules and ICES 03. 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 device does cause harmful interference to radio or television reception, which can be determined by temporarily removing the device, the user is encouraged to try to correct the interference by one or more of the following measures.

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

Caution: Changes or modifications to this device, not expressly approved by the manufacturer, could void the user's authority to operate this equipment.

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About Us

Spiral Technologies Limited, based in Vancouver, Canada, has provided innovative engineering design solutions to the local high-tech industry since its inception in 1988. We are recognized for our design expertise in multimedia digital signal processing and field-programmable gate-array development services.

Spiral's engineering team includes former employees and current owners of [Creation Technologies Inc.](#) and [iZ Technology Corporation](#). Our new proprietary product group is committed to utilizing our extensive development experience to provide leading-edge product solutions in the multimedia, security, and consumer fields.

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Have a question about PeaceMaker? Send us an email or fax and we'll be happy to help you!

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