

WIRELESS VEHICLE DETECTION AT ITS BEST!!!



THE BASICS

- 1) A sensor(s) detect(s) a vehicle entering monitored area(s)
- 2) A control panel up to 1000 feet away receives a signal from the sensor and triggers an alert inside the home or business (booster antenna increases range to 1/2-mile)

MORE OPTIONS

- 3) Add remote plug-in and/or portable chimes in the front room, basement, upstairs, back yard, by the pool, etc.
- 4) Add a timer controlled light kit to turn on outdoor and indoor lights to warn strangers or welcome friends
- 5) Activate video surveillance to record activity and display the driveway on a monitor
- 6) Activate signs, gates, alarm panels or other equipment
- 7) Add a repeater to send the signal another 1000' to trigger additional alerts in out buildings, or a booster-antenna to increase range up to 1/2-mile.

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DA-600



DA-605P or DA-605B

Wireless Drive-Alert Control Panel Installation Guide

The Mier Products' Wireless Drive-Alert Detection Systems give you the benefit of easy and economical wireless installation.

All Mier Wireless Vehicle Detection Systems includes 3 components:

1. Control Panel/Receiver with Additional Form C Dry Contacts
2. Sensor/Transmitter
3. Alert Sound Annunciator
 - * The DA-600 contains an internal piezo whistle
 - * The DA-605 with integrated DA-066MP wireless chime transmitter sends a signal to DA-078 plug-in chimes and DA-080 battery powered portable chimes



DA-600 and DA-605 Control Panel/Receivers feature:

- UL Listed 110 volt AC plug
- +24 volt DC power source for use with accessories
- Relay output available for use by accessories
- Visible POWER LED to monitor power status and LO BATT LED to monitor Transmitter batteries
- User accessible address switches to set a unique address code between the Control Panel/Receiver and the Sensor/Transmitter
- Normal reception to 1000 feet, or 1/2-mile if using the DA-660 Booster Antenna (see Options For Long Range Installations page)
- Use of an unlimited number of Mier Wireless Transmitters by a Control Panel/Receiver
- 100% compatibility with the Mier DA-610TO, optional DA-611TO, and optional DA-612TO Sensor/transmitters
- Compatible with Mier Accessories detailed in this manual (See Accessories Page)

EASY INSTALLATION IS OFTEN COMPLETED IN UNDER 30 MINUTES!



***Plug-In the
Control Panel***



***Plug-In or Place the
Chime (DA-605 Systems)***



***Place the Sensor-
Transmitter outside***

Installation Guide

FIRST, test the equipment by:

1. Plugging in the Control Panel
2. Turning the Whistle Switch ON if you have a DA-600, or plugging in DA-078 Chime if you have a DA-605P, or putting batteries in the DA-080 if you have a DA-605B
3. Install two (2) AA batteries in the Sensor/Transmitter, observing polarity, and turn it on in the same room as the Control Panel/Receiver. Turning on the Sensor/Transmitter will send a signal to the Control Panel/Receiver for about 15 seconds. The VALID XMSN LED should turn on on the Control Panel/Receiver, and the audible alert should respond. If the Sensor/Transmitter is moved after a one minute interval, the Control Panel/Receiver will be triggered again. (ex: walking while carrying the Sensor)

Once testing proves the units are communicating correctly, proceed to the following pages to learn how to:

- Properly mount the Control Panel
- Properly place the Sensor/Transmitter in the area you wish to monitor
- Properly place the chimes on a DA-605P or DA-605B system
- Test the installation
- Add accessories or long-range options



Wireless Drive-Alert Control Panel Installation Guide

The **DA-600 Drive-Alert** has an internal piezo electric whistle inside the Control Panel as the audible-alert. The whistle may be switched off if desired. The whistle and the whistle switch can be seen on the top of the DA-600 Control Panel.

DA-600 Control Panel front view



top view



The **DA-605 Drive-Alert's** Control Panel/Receiver board is the same as the DA-600. However, the DA-605 does not have an internal whistle, nor a whistle switch. The advantage of the DA-605 over the DA-600 is the DA-066MP Wireless Chime Transmitter which activates remote chimes as an alert. Any combination or quantity of DA-078 Plug-in Chimes and/or DA-080 Battery-powered Portable Chimes may be used. Each chime is activated by a radio signal from the DA-066MP attached to the control panel. These chimes can be used up to 100' away from the control panel. As stated, the DA-078 plugs into any standard wall outlet. The DA-080 can be taken into the backyard, out to the pool & etc. The DA-066MP can be seen on top of the DA-605 Control Panel.

DA-605 Control Panel front view



top view



The relay contacts on the terminal board are Form C dry contacts. These relay contacts may be supplied with 24 or 5 volts DC with the addition of a jumper from the needed voltage to the C terminal. The Control Panel will operate any of Mier's Drive-Alert accessories listed on the "Accessories" pages of this manual. It can also be used to control other external bells, surveillance systems, signs, gates and relays. An adjustable time control provides 2 to 12 seconds of relay closer for each vehicle detected.

CONTROL PANEL/RECEIVER INSTALLATION: *(Sensor/Transmitter installation are on pages 5-7)*

The Control Panel/Receiver is to be mounted indoors, 4-6 feet above ground level, where 110 volts AC power is available. To maximize transmitter reception, the flexible antenna is to be at least 12 inches from any metal pipes, power conduits, breaker boxes, etc. Simply plug the Control Panel/Receiver into a standard wall outlet, where the signal from the Sensor/Transmitter can reach it.

For extended ½-mile range reception, or when a Control Panel must be mounted in a basement, the **DA-600LR** and **DA-605LR** long-range systems include a special antenna "F" connector on the Control Panel/Receiver, and also include a DA-660 Reception Booster Antenna. *(see the Long Range Options page)*

A **DA-600 Drive-Alert** has a WHISTLE ON-OFF SWITCH on top of the Control Panel.

A **DA-605 Drive-Alert** has a remote chime with volume control. Plug in the DA-078 Remote Chime(s) or place the DA-080 Portable Chime(s) in the area(s) of the house where an alert is desired. The DA-080 Battery Operated Portable Chime needs two (2) D batteries which will last about 3 years. For all options and operation instructions of the chimes, see the instructions enclosed with the chimes. The DA-078 and DA-080 chimes may be located in multiple rooms and locations, and the DA-605 can trigger an unlimited number of chimes within 100+ feet of the DA-605 Control Panel.

Testing the communication between a DA-605 Control Panel and the Chimes is accomplished by pushing the DA-066MP Test/Call Push-Button attached to the top of the Control Panel, and **holding the button down for AT LEAST two (2) seconds**, which sends a 315 MHz radio signal to trigger the two-tone (ding-dong) remote DA-078 chimes and/or DA-080 chimes. As stated, this signal will reach at least 100 feet to the chimes. The chimes can be tested independent of the Drive-Alert Sensor/Transmitter.

The DA-066MP Chime Transmitter, and the DA-078 and DA-080 **chime codes are preset. Do not change the codes.**

The next page shows the electrical board and provides information and position of the Power LED, Low Sensor Battery Warning LED, Valid Transmission LED, and Address Codes

Wireless Drive-Alert Control Panel Installation Guide

Under the Control Panel/Receiver cover you will see the electrical board (FIGURE 1).

A **Power LED GREEN** indicates that the power is on and that the internal 1 Amp Fuse is okay.

An **Alert LED RED** indicates the Sensor/Transmitter has detected a vehicle, the Sensor/Transmitter has been moved, or there is another disturbance in the magnetic field around the Sensor/Transmitter.

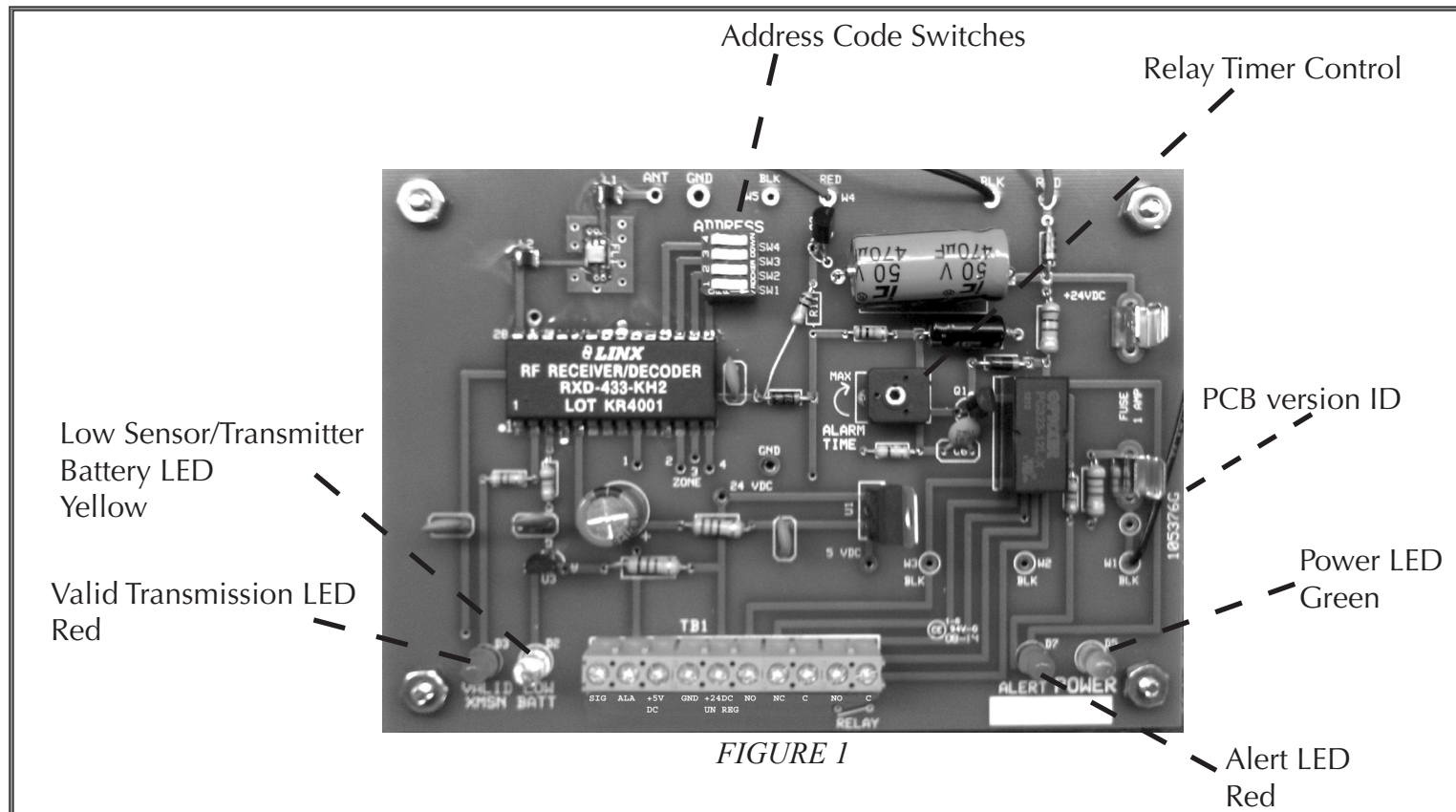
A **Low Sensor Battery Warning LED YELLOW** indicates when batteries are low at the Sensor/Transmitter. This LED will stay on until the battery voltage in the Sensor/Transmitter is above 2.7 volts DC. NOTE: Before changing batteries in the Sensor/Transmitter, unplug the Control Panel/Receiver and wait at least one minute after replacing batteries in the Sensor/Transmitter before plugging it back in. This prevents unwanted alarms and resets the low battery detector.

The Control Panel/Receiver **Address Code Switches** (see SW1, SW2, SW3, SW4) **must be set to match those in the Sensor/Transmitter**. These switches are preset at the factory for code 0000. They should only be changed if the Sensor/Transmitter code is also changed. An example of when you would want to switch these codes is when two neighbors, living right next to each other, both have Drive-Alerts: one neighbor should switch codes so both their alerts remain exclusive to their own driveways.

The **Relay Time Control** is preset at minimum of **2** seconds of alarm time. The maximum relay closer time is 12 seconds.

The **Valid Transmission LED RED** is on when the Control Panel/Receiver detects a valid transmission of its address, and the Alert LED is on when the relay is closed.

NOTE: **Sensor/Alert Sensitivity Control** is on the Sensor/Transmitter (see page 6), and is NOT controlled by this Control Panel.



Wireless Drive-Alert Sensor Installation Guide

DA-610TO



Mier Products' Wireless Drive-Alert Sensor/Transmitters detect the changes in the magnetic field (movement of metal) within 14' in every direction. Therefore, they will not false-alarm from animals, wind, rain, etc. The Transmitter electrical boards are epoxied and also encased in a durable, weather-sealed, NEMA 4X housing for worry free weather and corrosion protection. They are able to detect through standard building materials such as brick, stone, vinyl siding, etc. so in many drive-up window applications they may be installed inside the wall next to the drive. They are powered by two AA alkaline batteries, and include circuitry to transmit a low-battery condition to Mier's Drive-Alert Control Panel/Receivers when batteries begin to run low.

DA-611TO



The Sensor (aka: probe or wand) portion of any of these Sensor/Transmitters should be placed next to the drive or area to be monitored, and at least 50 feet from any road traffic to prevent false alarms. The Sensor can be placed in any orientation, parallel or perpendicular to the drive. **Any movement of the Sensor will cause an alarm for asset protection.**

Transmitting range from the Transmitter to the Control Panel/Receiver is 500 feet if placed on the ground, up to 1000' if mounted 2-4' high on a metal, wood or concrete post or a convenient building, and up to 1/2-mile if a long-range system is ordered, which includes a DA-660 reception booster antenna. (See the *Long Range Options* page to learn more about the booster antenna, adding repeaters, or adding additional DA-100 control panels)

DA-612TO



If occasional false alarms occur, or you are not detecting some vehicles, you can try re-locating the Sensor, or you can reduce sensor sensitivity. There is a small blue sensitivity pot on the electrical board. Maximum sensitivity adjustment is clockwise and minimum is counter-clockwise (note arrow direction). Reducing sensitivity would reduce detection of road traffic, but would also reduce the detection sensitivity in the driveway. (See next page for directions)

Lightning strikes cause a large disturbance in the magnetic field, so nearby strikes will cause an alarm. It is also possible for electrical current variations in nearby power lines to cause an alarm.

The address codes for these Sensor/Transmitters, as well as the Control Panel/Receivers are pre-set at the factory. However, if a unique address code is needed (e.g. interference from a neighbor's Mier wireless Drive-Alert) you can change the address codes making sure you do so in **both the Sensor/Transmitter AND the Control Panel/Receiver** so they are different than factory spec, but still match one another. (See next page for directions)



DA-610TO installation with the Sensor/Transmitter hidden under landscaping next to the driveway.



DA-611TO installation with the Sensor buried under the drive and the Transmitter hidden/mounted on a nearby tree.

The Differences between Mier's three Sensor/Transmitter Choices:

The DA-610TO Sensor/Transmitter: Both the Sensor and the Transmitter are contained in the same NEMA 4X enclosure. (See photo at the top left) This unit is standard with complete systems.

The DA-611TO Remote-Sensor/Transmitter: The Sensor is outside the Transmitter Box, and attached to the Transmitter by a 50' cable (cable lengths up to 1000 feet are available). This allows the sensor probe to be buried under or next to the driveway or area to be monitored, and the transmitter box to be hidden up to 50' away or placed high above ground for a better range. The sensor should be buried 6-12 inches below ground and the cable 3-6 inches below ground. Mier HIGHLY RECOMMENDS burying the cable in 1/2-inch PVC pipe to protect it. **Try the Sensor and Transmitter locations above ground for a week, before burying the Sensor and cable.**

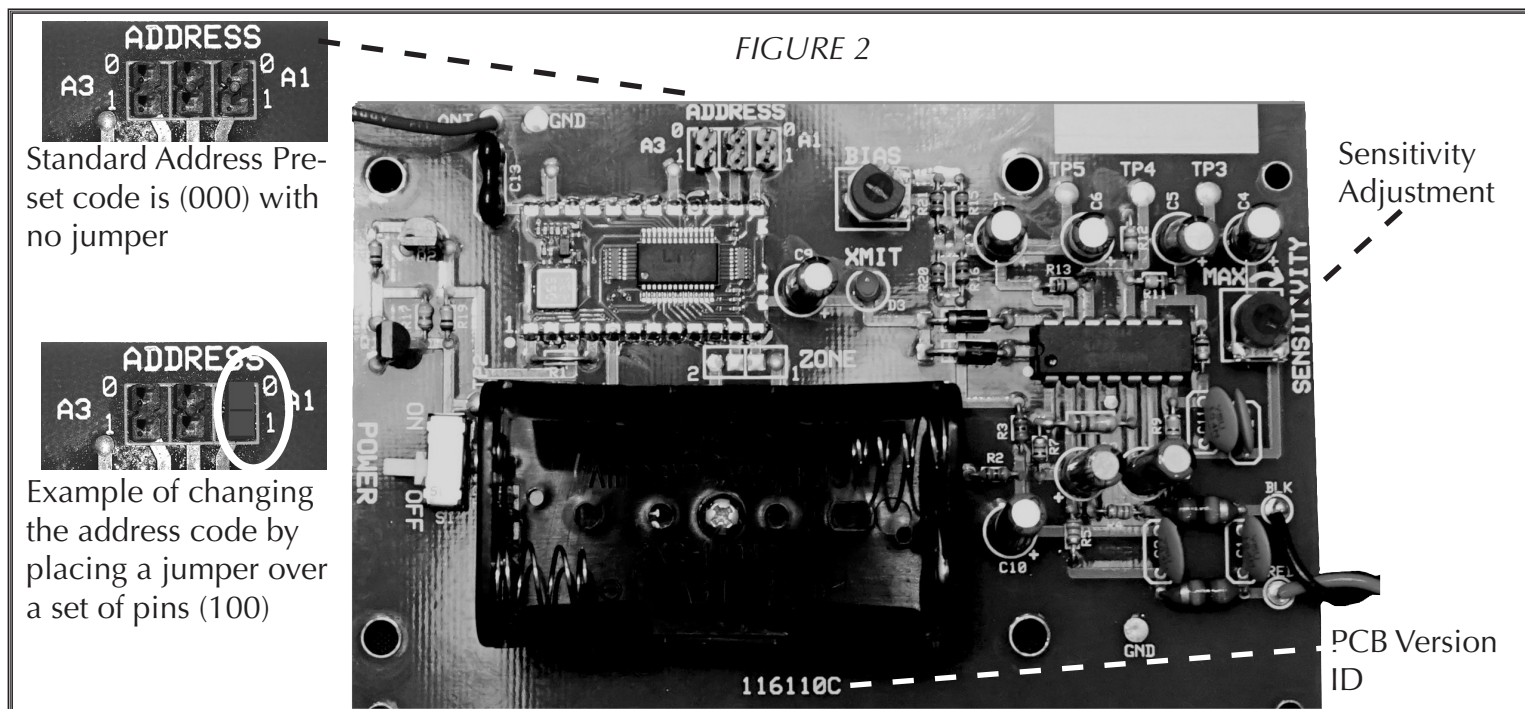
The DA-612TO Remote-Sensor/Transmitter: Is just like the DA-611TO, but with 2 external sensors.

Detection-distance from the sensor for a standard-size modern sedan moving 5MPH

	<u>DA-610TO</u>	<u>DA-611TO</u>
Maximum sensitivity	14 feet	17 feet
Factory set sensitivity	13 feet	16 feet
75% sensitivity	11 feet	14 feet
50% sensitivity	9 feet	12 feet
Minimum sensitivity	7 feet	10 feet

Wireless Drive-Alert Sensor Installation Guide

The **Sensor portion** of a DA-610TO, DA-611TO or DA-612TO contain the sensing and transmitting electronics and should to be placed in the area you wish to monitor moving vehicles or assets. The detection threshold is set by a sensitivity control (See FIGURE 2: Right Hand/Middle) on the transmitter circuit board. Maximum sensitivity adjustment is Clockwise and minimum is Counter-Clockwise. In most cases the factory sensitivity will function for the installation.



For maximum range, the **Transmitter portion** of the DA-610TO, DA-611TO or DA-612TO should be placed 3+ feet above ground on a post, tree, or hung from any convenient point. The front of the Transmitter Box should also face the Control Panel/Receiver in the home/business for best range.

The Transmitter operates on 2 - AA alkaline batteries providing 3.0 volts DC to the electronics. Please observe correct polarity when installing. Typical battery life is 1-2 years in a residential installation. The Transmitter sends a continuous signal for about 1 minute after the power switch is turned on, and then is ready to act on Sensor inputs. When the battery voltage reaches 2.7 volts, a low battery signal is sent to the Control Panel/Receiver in the home/business and the LO BATT LED on the Control Panel/Receiver will be lit to indicate the batteries should be replaced soon. The receiver can be muted by turning off the whistle switch or unplugging the chime to avoid annoying alarms while replacing batteries, working on or moving the Drive-Alert. After installing batteries and confirming operation, the top cover can be put back on the enclosure **with careful attention to keeping the gasket in place and not over-tightening the screws on the cover which would cause the case to crack. Failing to do either will result in moisture entering the enclosure.** The Sensor/Transmitter can now be placed in position.

The Sensor/Transmitter **Address Code Switches** (see Figure 3, ADDRESS) **must be set to match those in the Control Panel/Receiver.** These switches are preset at the factory for code 0000. They should only be changed if the Control Panel/Receiver code is also changed. An example of when you would want to switch these codes is when two neighbors, living right next to each other, both have Drive-Alerts: one neighbor should switch codes so both their Drive-Alerts remain exclusive to their own driveways.

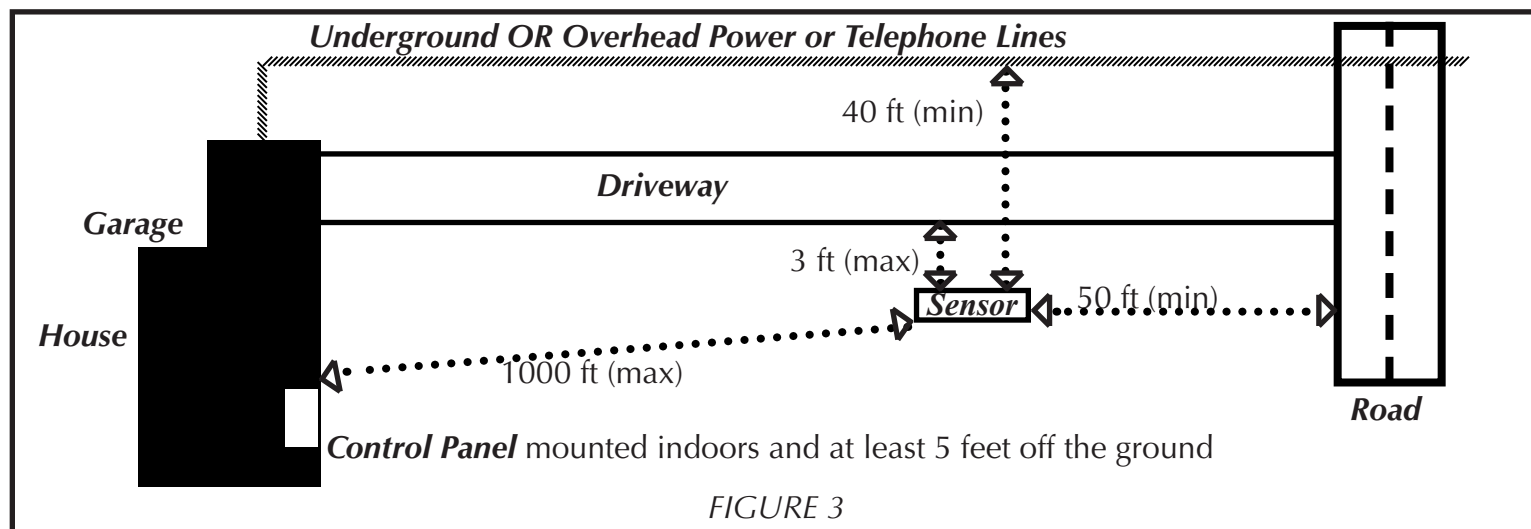
*NOTE: The optional DA-611TO or DA-612TO are used in cases where it is impossible to securely place the Transmitter Box near the driveway or area that needs monitoring, or when extra transmission distance is needed.

Please contact our Tech Support Team and we will be happy to "Google™ earth" your installation site, and provide you with information on the products needed, and locations for each piece to meet your installation/application goals. Don't forget to check out our website for cut-sheets, installation manuals, installation examples, and information on more products!

Wireless Drive-Alert Sensor Installation Guide

- 1) Place the **Control Panel/Receiver** inside the home or office at least 5 feet above ground level, and plug the power cord into an AC receptacle. The power light in the lower right hand corner of the Control Panel/Receiver will now be ON.
- 2) Make certain the alert annunciators are ON:
 - On DA-600 models containing a piezo whistle, slide Whistle Switch on the Control Panel to the ON position
 - On DA-605 models using wireless chimes, plug-in or install batteries in the wireless chimes
- 3) Place **Sensor** within 3 feet of the edge of the driveway, or the equipment/area to be monitored. The closer the better!
- 4) The **Transmitter Box** should be at least a few inches off of the ground to prevent heavy rains from flooding the unit. For optimal detection and transmission range, mount the transmitter three (3) feet off of the ground.
- 5) Make sure the **Sensor** and **Transmitter Box** are at least 50 feet from streets or roads, and 40 feet from power lines.
- 6) **Test** the system using a vehicle to pass by the Sensor @ 5MPH or by swinging a steel object along the long side of the Sensor setting off the audible alert.

Once testing is successful, choose the final mounting locations and perform Step 6 repetitively for consistent detection and finalize installation.



Sensor/Transmitter Installation Examples



At the base of a pole



3-foot high for greater range



Under landscape next to the drive



Under a DA-ROCK1 fake rock next to the drive



DA-611TO transmitter box in a tree for greater range

Wireless Drive-Alert Installation Guide

Additional Tips for Reliable Installation:

- DO NOT mount the **Control Panel/Receiver** within 10 feet of a wireless modem, cell phone, or cordless phone
- DO NOT put the **Control Panel/Receiver** in a basement unless it is a Long-Range Control/Panel Receiver with a DA-660 Long-Range Antenna
- DO NOT mount the **Control Panel/Receiver** outdoors
- DO NOT mount the **Control Panel/Receiver** within 12 inches of Aluminum or Steel electrical enclosures, which would cause interference
- If you must mount the **Control Panel/Receiver** inside a Stucco wall, or aluminum sided wall, use a Long Range system which includes a DA-660 Long Range Antenna which can be mounted outside the wall.
- For long-range applications, consider a **Long-Range Drive-Alert System** which includes a DA-660 Reception Booster Antenna which can be mounted in an attic for additional range. Note: metal roofs will interfere with the signal, but wood/shingle is fine.
- Aluminum or Steel obstructions in the direct path of the line-of-sight from the Transmitter to the Control Panel/Receiver will cause interference. In these cases, consider using a **Long-Range Drive-Alert System** and running the Reception Booster Antenna to an area where it receives a direct signal from the Transmitter
- If there are hills in the terrain between the Transmitter Box and Control Panel/Receiver, you may need to use a DA-611TO or DA-612TO Sensor/Transmitter and/or a **Long Range Drive-Alert System**
- E-Glass windows in the path of the line-of-sight between the Transmitter and Control Panel/Receiver will cause interference. In these installations, move the Control Panel/Receiver away from the window, or consider a **Long Range Drive-Alert System**.
- Mount the **Sensor** parallel to the driveway whenever possible
- DO NOT mount the **Sensor** more than 3 feet from the edge of the driveway, or equipment/area to be monitored
- DO NOT mount the **Sensor** more than 4 feet above ground which is above the non-ferrous belt-line and might result in missed detection
- Mount the **Sensor** securely: IT MUST BE STABLE AND MOTIONLESS! Any movement of the sensor will cause an alarm. Don't mount the Sensor on a tree, post or gate that might move in the wind.
- DO NOT mount the **Sensor** where it might be near underground or above ground power lines. Power surges in the sensor area will cause false alarms.
- DO NOT bury the **Transmitter Box** in the ground.
- DO NOT install the **Transmitter Box** in an Aluminum, Copper or Steel enclosure which will result in shielding the signal

Please contact our Tech Support Team and we will be happy to “Google™ earth” your installation site, and provide you with information on the products needed, and locations for each piece to meet your installation/application goals. Don't forget to check out our website for cut-sheets, installation manuals, installation examples, and information on more products!



800-473-0213

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Free Lifetime Technical Support
info@mierproducts.com

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www.mierproducts.com

Wireless Drive-Alert Control Panel Terminals and Hooking Up Other Equipment

CONTROL PANEL TERMINALS:

Figure 4 shows a detailed description of the contacts available. The terminal block, TB1, provides a convenient wire connection point for external device control and test points. **NOTE: All external devices must be rated at 24 VDC**

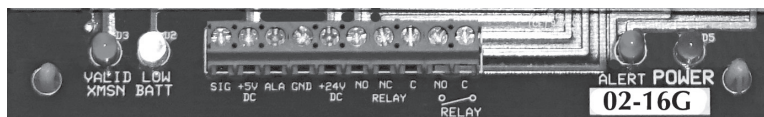
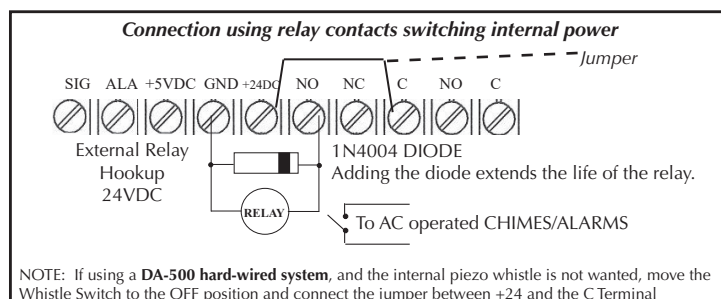
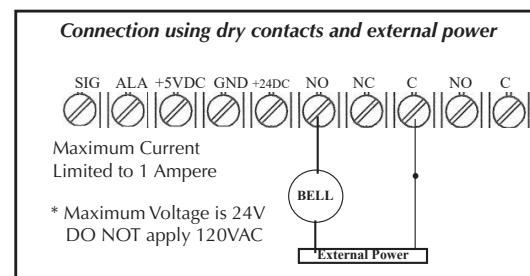
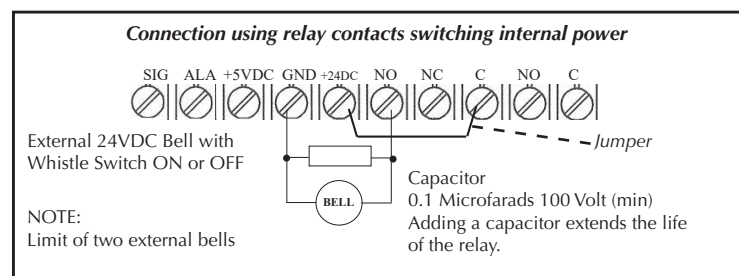
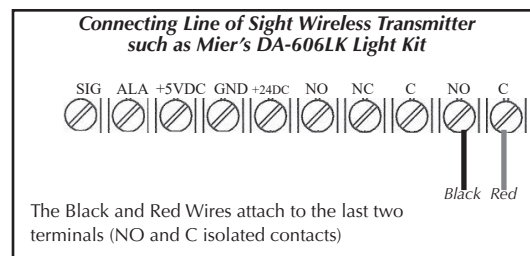
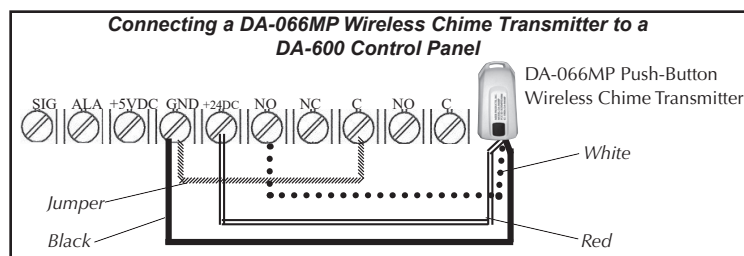


FIGURE 4 shows the DA-600 and DA-605 terminals on the bottom of the Control Panel/Receiver green PCB

- Valid XMSN- Valid Transmission LED (far left) is RED and indicates if a valid signal is received from the Sensor/Transmitter
- LOW BATT - Low Battery LED is YELLOW and indicates if the batteries in the Sensor/Transmitter are running low
- SIG - Received Signal Strength (e.g. 1-1.5VDC = No Signal; 1.6-2.5VDC = Signal)
- +5VDC - 5 Volt DC Logic Power @ 25mA (max)
- ALA - Alarm Signal (0-1vdc = No Alarm; 4-5 VDC = Alarm)
- GND - Unit Ground
- +24VDC - Power Supply for 24VDC @ 100 mA (.1 amp) maximum accessories
- NO - Normally Open Relay Contact
- NC - Normally Closed Relay Contact
- C - Common Relay Contact
- NO - Normally Open Relay Contact
- C - Common Relay Contact
- ALERT - Alert LED is RED and lights when the Sensor/Transmitter has detected an intrusion and is sending a signal
- POWER - Power LED is GREEN and remains on when the Control Panel/Receiver is plugged in and receiving power

NOTE: The Control Panel/Receiver will operate on 12 VDC. An auto battery with the positive (+) connected to the +24 VDC terminal and negative (-) connected to the GND terminal will operate the Drive-Alert. Therefore, the Control Panel/Receiver can become portable (the sensor is always portable) so the unit can be used in a vehicle or at a remote site.

***** NOTE: DO NOT PLUG THE UNIT INTO 110 VAC IF ALSO OPERATED ON BATTERY AS IT CAUSES FAILURE *****



Four Options for Long Range Drive-Alert Installations

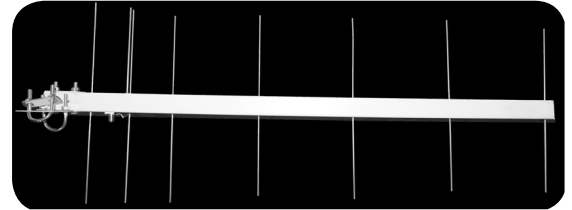


The DA-660 Reception Booster Antenna is perfect when monitoring remote buildings or equipment:

This antenna is used to increase the standard reception distance of 1000-feet, to up to 1/2-mile from the Sensor/Transmitter to the Control Panel/Receiver. Please keep in mind this is a **FACTORY INSTALLED** option, and must be ordered at the time the Drive-Alert Control Panel/Receiver is ordered by adding an "LR" for long-range at the end of the part number. For example, a long range version of a standard DA-605P, which would include this antenna, is a DA-605PLR.

Retro-fitting an existing Drive-Alert can be done, but the system must be sent into the factory as additions need to be made to the Control Panel/Receiver electrical board.

- * 34" Long, 13" Wide, 1" High and weighs approximately 1 pound
- * Frequency = 434 mHz
- * Impedance = 75 Ohms
- * Gain = 10.6 dB
- * Type = 7 Element Yagi



The DA-611TO and DA-612TO Sensor/Transmitters increase transmission distance:

The Sensor(s) is/are outside the Transmitter Box, and attached to the Transmitter by a 50-foot cable (cable lengths up to 1000 feet are available). This allows the sensor probe to be buried under or next to the driveway or area to be monitored, and the transmitter box to be hidden up to 50' away or placed high above ground for an increased transmitting range. The sensor should be buried 6-12 inches below ground and the cable 3-6 inches below ground. Mier **HIGHLY RECOMMENDS** burying the cable in 1/2-inch PVC pipe to protect it. **Try the Sensor and Transmitter locations above ground for a week, before burying the Sensor and cable.**

Note: installation instructions come with these Sensor/Transmitters when ordered, or are available for download on our website.

DA-611TO



DA-612TO



The DA-REPEATER is perfect for providing additional alerts in remote buildings

This Drive-Alert Signal Repeater can be attached to any DA-600, DA-605 or DA-500 Drive-Alert Control Panel/Receiver. It will repeat the alert signal to other wireless Control Panel/Receivers (DA-100CP, DA-600CP, DA-605CP) up to an additional 1000 feet away. If a site has multiple buildings and/or locations where an alert is desired, add a DA-REPEATER to a DA-600 or DA-605 Control Panel/Receiver, and then add DA-100CP Chimes with Volume Control (shown below) in those other buildings.



The DA-100CP Long Distance Remote Chime for adding chimes to remote buildings:

The DA-100CP is actually a self-contained Control Panel/Receiver on its own, and receives a signal from up to 1000-feet of any of Mier's wireless Sensor/Transmitters, OR a DA-REPEATER (shown above), and provides a pleasant tone as an alert. It also includes volume control.



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Accessories



DA-066MP DA-078 DA-080 DA-100CP DA-REPEATER DA-606 DA-071 DA-072 DA-073 DA-ROCK1

If your Drive-Alert accessories do not look like these, you may have older models. Please call Mier's free tech support line at 800-473-0213

WIRELESS DRIVE-ALERT ACCESSORIES:

- **The DA-066MP Remote Chime Transmitter** is used in combination with the wireless **DA-078 Remote Plug-in Chime(s)** and/or the **DA-080 Battery-operated Portable Chime(s)** in applications where a more pleasant chime and alerts in more rooms/areas of a home are desired. *This is standard on the DA-605P.* Any number and combination of plug-in chimes and portable chimes may be used.
- **The DA-100CP Long Distance Remote Chime** is actually a self-contained Control Panel/Receiver that receives a signal from up to 1000 feet of any of Mier's wireless Sensor/Transmitters, or a DA-REPEATER, and provides a pleasant tone as an alert. It also includes volume control.
- **The DA-REPEATER** can be attached to a DA-600, DA-605 or DA-500 Control Panel/Receiver and repeats the signal to other wireless Control Panel/Receivers (DA-100CP, DA-600, DA-605) up to 1000 feet away.
- The **DA-606LK Wireless Light Kit** comes with a **DA-606 Timer Control**, one **DA-071 Light-Switch**, and one **DA-072 Lamp Module**. Any number and combination of light-switches and lamp modules may be used. For heavy-duty applications the **DA-073 Heavy-Duty Outlet** includes a top receptacle that handles up to a maximum of 1800 watts or maximum of 15 amps.
- **The DA-ROCK1** is a popular accessory with all of our wireless systems, and is used to hide the DA-610 Sensor



DA-655 DA-500LKA DA-052V DA-505 DA-505W DA-050

HARD-WIRED DRIVE-ALERT ACCESSORIES:

- **The Hard-Wired DA-655 Chime with Volume Control** is our most popular accessory for the model DA-600 Drive-Alert in Drive-up Window or business applications!
- **The DA-500LKA** is a set of Form C Dry Contacts that can be attached to the DA-600, DA-605 or DA-500 Control Panels.
- **The DA-052V Whistle with Volume Control** – is used with the DA-600 when a second whistle is desired (hard-wired installation)
- **The Hard-Wired DA-505 Timer Control** will turn on 10 amps of lights, sirens or bells from 1-45 minutes. The DA-505 unit simply plugs into a 120 VAC outlet and contains its own receptacle to provide power to lights or alarms.
- **The Hard-Wired DA-505 Timer Control** will turn on lights, sirens or bells from 1-45 minutes. The DA-505W is a “stand alone” unit that gets its power from the Drive-Alert, and provides a N.O., timed, dry contact to switch a load (lights, contactors, bells, etc) rated at 10 amps, 120 volts AC. The DA-505W is a terrific intermediate interface with a “healthy” large relay within, that may be used to control other functions such as triggering a large commercial lighting contactor, billboards, holiday lights, etc.
- **The DA-050 Power Pack** is a replacement power-pack/transformer for the Drive-Alerts.

Supplemental Specifications

DA-600 and DA-605 CONTROL PANEL/RECEIVER:

1. INPUT POWER: 120 VOLTS AC 50-60 HZ, 3 WATTS
2. OUTPUT POWER: 24 VOLTS DC AT 100 MILLIAMPERES (.1 AMP)
3. FREQUENCY: 433.92 MHZ FIXED SUPERHETRODYNE
4. ANTENNA: ¼ WAVE MONOPOLE FIXED BOLTED IN STEEL CASE 0 DBI GAIN
5. RECEIVER: LINX TECHNOLOGIES MODEL KH3
6. ADDRESS CODES: FOUR POSITION DIP SWITCH
7. LAMPS/LEDS: POWER, LOW BATTERY, VALID XMSN, ALARM
8. OUTPUT: PIEZO WHISTLE AND 24 VOLT RELAY
9. ALARM TIME: ADJUSTABLE 2 TO 12 SECONDS FOR EACH ALARM.
10. OPERATING TEMP: 0 DEGREE F. TO +105 DEGREE F.
11. WEIGHT: 2.5 POUNDS.

DA-066MP WIRELESS CHIME TRANSMITTER:

The DA-066MP Remote Chime Transmitter is attached to a DA-605 Control Panel and is an option on the DA-600 or DA-500. It is a 315 Mhz transmitter with ASK/OOK encoded signal. It is activated by a relay closure on a Drive-Alert, or by pushing the button on the case. It requires 15-30 volts DC on the RED and BLACK wires. The WHITE wire when pulled to ground will activate the transmitter.

- Frequency: 315 Mhz Crystal Controlled
 Power: .002 WATTS
 Power Input: 15-30 Volts DC at .025 AMPS
 Weight: 9 Ounces
 Antenna: 1/8 Wave Quasi-Loop, -2 DBI Gain
 Duty Cycle: 50% Encoder Duty Cycle at 1 Mhz
 On Time: Normally 1 Second of Transmit Time
 FCC ID: SGXMPIDA066

This device complies with Part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). 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.
- Any changes not expressly authorized by Mier Products, Inc. may void the user's authority to operate this equipment.

IC ID: 5583ADA-066MP

Cet appareil est conforme a des reglements d'industrie Canada exempts de license standard RSS (s). Son fonctionnement est soumis aux deux conditions:

- (1) Ce dispositif ne doit pas causer d'interferences nuisibles
- (2) Cel appareil doit accepter toute interference recue, y compris les interferences pouvant entrainer un fonctionnement indesirable.

DA-610TO SENSOR/TRANSMITTER:

1. POWER REQUIREMENTS: TWO (2) SIZE AA (LR-6) BATTERIES 3.0 VOLTS DC
2. OPERATING FREQUENCY: 433.92 MHZ FIXED
3. ANTENNA: 1/4 WAVE MONOPOLE BOLTED INTO THE STEEL CASE. 0 DBI GAIN
4. TRANSMITTER OUTPUT: 2 MILLIWATTS
5. TRANSMITTER: LINX TECHNOLOGIES MODEL KH ENCODER/TRANSMITTER
6. ENCODER MODULATION: AMPLITUDE ON-OFF KEYING (OOK) AT 1200 BPS.
7. ADDRESS CODES: JUMPER PLUGS ELECTED FOR THE ENCODER
8. DATA: ONE DATA BIT ENCODED WHEN BATTERY IS LOW.
9. TRANSMITTER ON TIME: LESS THAN 5 SECONDS FOR ANY SINGLE ALARM
10. ENCLOSURE: NON-METALLIC, WEATHER SEALED ENCLOSURE HOUSES THE TRANSMITTER
11. QUIESCENT CURRENT : 60 MICROAMP
12. ACTIVE CURRENT: 3 MILLIAMP
13. BATTERY LIFE: ABOUT ONE YEAR IN RESIDENTIAL USE.
14. OPERATING TEMP: -40 DEGREES F TO + 125 DEGREES F
15. WEIGHT: THREE POUNDS
16. DETECTION OF VEHICLES: DISTANCE FROM SENSOR/TRANSMITTER UNIT FOR STANDARD SEDAN MOVING AT 5 MPH+ IS 14 FEET (MAX), 9 FEET (MID), 7 FEET (MIN)

DA-611TO SENSOR/TRANSMITTER:

ALL SPECIFICATIONS ARE THE SAME AS THOSE LISTED FOR THE DA-610TO ABOVE, EXCEPT THE FOLLOWING:

- A. THE SENSOR IS NOT INSIDE THE ENCLOSURE WITH THE TRANSMITTER. IT IS AN EXTERNAL SENSOR ATTACHED TO THE TRANSMITTER ENCLOSURE WITH 50' OF CABLE (SEE OPTIONS PAGE)
- B. DETECTION OF VEHICLES: DISTANCE FROM SENSOR/ FOR STANDARD SEDAN MOVING AT 5 MPH+ IS 17 FEET (MAX), 12 FEET (MID), 10 FEET (MIN)



Wireless Drive-Alert Troubleshooting Trees

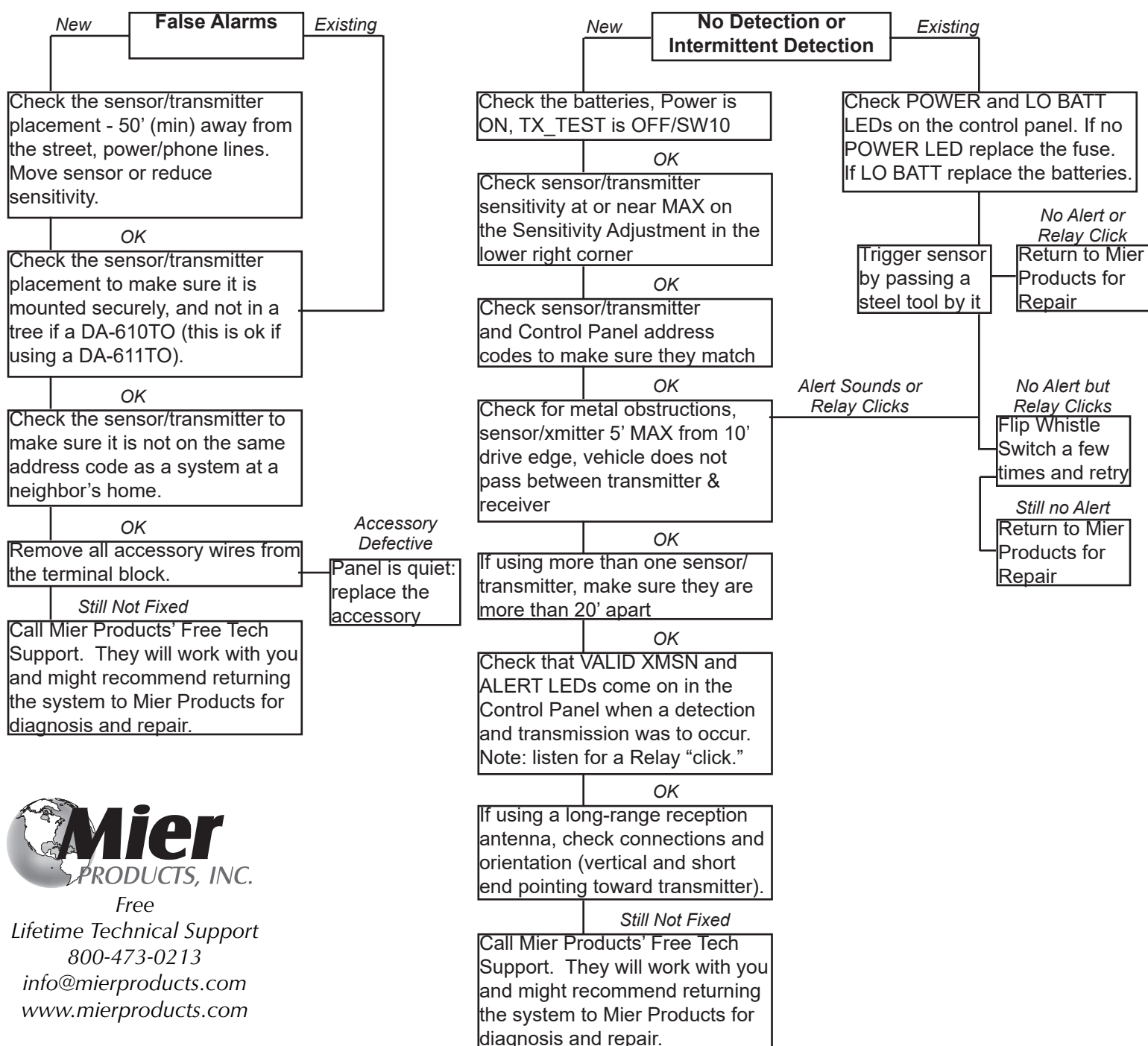
Step 1 - Check to make sure the Power Light is on. If not, replace the internal 1A fuse, or send to Mier Products for repair.

Step 2 - Make sure the Control Panel is mounted in an above ground area where its antenna can receive a good signal from the Sensor/Transmitter, and make sure the Sensor/Transmitter is in a position free where it can send a signal freely. Make sure there are no large metal objects, mirrors, aluminum siding, etc. between the Control Panel and the Sensor/Transmitter. There is a "continuous on" or "test" switch inside the transmitter to help you test signal strength.

Step 3 - Check to make sure all address codes inside the Control Panel match the address codes in the Sensor/Transmitter Enclosure.

Step 4 - If installing a DA-605P, make sure the address codes in the small DA-066 mounted on the side of the Control Panel match the address codes in the Chimes.

Step 5 - If installing a DA-605P, make sure there are no large metal objects, mirrors, appliances, etc. between the Control Panel and the Chimes



Free

Lifetime Technical Support

800-473-0213

info@mierproducts.com

www.mierproducts.com

Mier Products' Drive-Alert Technical Support

Mier Products, Inc. provides **free telephone and email lifetime technical support** for all of our Drive-Alert vehicle detection systems. Call us between the hours of 8:00 am and 5:00 pm EST, send an email, or download our Cut-Sheets, Instruction Manuals, or FAQs from our website.

800-473-0213 ~ info@mierproducts.com ~ www.mierproducts.com

Mier Products' Drive-Alert Warranty

Limited Warranty for Drive-Alert Models and Accessories Manufactured by Mier Products, Inc.

Mier Products, Inc.'s Limited Warranty Program for Drive-Alert Series of Vehicle Detection Systems and Drive-Alert Accessories protects the original owner for one year from the date of purchase against defects in original parts or workmanship. Mier Products, Inc. agrees to repair or replace parts (Mier's option) that are deemed defective by our Quality Control Team, without charge for parts or labor, if the defective unit is returned prepaid to Mier Products, Inc., Kokomo, IN, within the one-year period.

Close inspection and testing, at the time of receipt by the customer, will quickly determine product quality. Thus, Mier Products, Inc. recommends inspection of, and testing, the Drive-Alert models, direct burial cable, and accessories immediately upon receipt, *before installation or driving to an installation site*, and contacting Mier Products, Inc. if quality issues arise.

NOTE: Sensors and cables that have been buried are not covered. Wireless sensors that have been sitting in flooded areas or standing water are not covered.

Mier Products, Inc. does not assume responsibility for claims or damages caused by improper installation or use of these products, accessories, and/or products connected to or stored within them. Mier Products, Inc. does not assume responsibility for damages to these products or their accessories due to shipping damage or damage occurring while in a customer's warehouse and/or possession. Mier Products, Inc. does not assume responsibility for damage due to accident, faulty wiring, overload of Drive-Alert System or Drive-Alert accessory output, or components attached to the Drive-Alert parts. Drive-Alert models and accessories must be shipped, handled, stored, and installed with strict adherence to OEM installation instructions.

Drive-Alert accessories and parts built by other OEMs (including but not limited to chimes, lamp modules, light switches, bells, splice kits) are covered under their respective OEM warranties.

This warranty constitutes the entire warranty with respect to Mier's Drive-Alert Models and Accessories and IS IN LIEU OF ALL OTHERS, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OR MERCHANTABILITY AND WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND IN NO EVENT IS MIER PRODUCTS, INC., OR IT'S DISTRIBUTOR, DEALER, OR OEM PARTNERS, RESPONSIBLE FOR ANY CONSEQUENTIAL DAMAGES OF ANY NATURE WHATSOEVER.

Any warranty OR sales questions should be directed to Mier Products at 800-473-0213, or via e-mail to info@mierproducts.com

Any repair work not covered by this Warranty is available for a nominal charge.

Products which customers wish to return for reasons other than Warranty must first call Mier Products, Inc. to receive a Return Material Authorization Number (RMA#). Returns are subject to a 15% re-stocking fee as well as return shipping. NOTE: Special Order products, such as Mier's Temperature Controlled Enclosure line, are non-cancellable and non-returnable.



800-473-0213

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info@mierproducts.com

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Wireless Vehicle Detection | Buried Sensor Systems | Driveway Alarms | Drive-Up Window Detection | Instrument Boxes | DVR & CPU Lockboxes | Flush-Mount Cabinets | NEMA Outdoor Enclosures | NEMA Temperature Controlled Enclosures | NEMA Rack Enclosures | Rack Shelves and Drawers | NEMA/UL Non-Metallic Enclosures | Power Supply Boxes | Siren/Speaker Cabinets | Bell Boxes | Battery Cabinets | Transformer Enclosures | Custom Enclosures and Fabrication | Custom Graphic Screening and Colors

