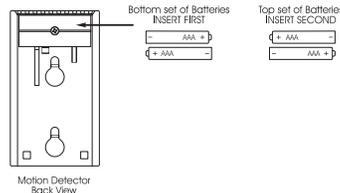## Battery Installation

• **This system is designed to work with Eveready Alkaline Energizer Batteries.** Do not install any other type. The reliability of the security system depends on its batteries, and "no name" or generic brand batteries may not provide the best quality and dependability.

• Use fresh batteries. Most batteries have a "best before" date printed on their packaging or on the batteries themselves. Buy batteries that have a "best before" date of two years or more from your purchase date.

• When disposing of used batteries, follow the instructions and precautions printed on the batteries. Many cities and communities have collection sites or services for used household batteries. Contact your municipal offices for information on the disposal of used batteries.

Remove the motion detector from its mounting plate by holding the sensor by its sides and pushing up. Install four fresh Eveready Alkaline Energizer AAA batteries. Be sure to insert the batteries in the proper orientation. Replace the sensor on its mounting plate, making sure it snaps into place.

After all the batteries are installed, the detector will take 60 seconds to warm up. During this time the LED will flash slowly.

Bottom set of Batteries
INSERT FIRST

Top set of Batteries
INSERT SECOND

AAA +
+ AAA

+ AAA
AAA +

Motion Detector
Back View

FCC COMPLIANCE STATEMENT
CAUTION: Changes or modifications not expressly approved by Digital Security Controls Ltd. could void your authority to use this equipment. This equipment generates and uses radio frequency energy and if not installed and used properly, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for Class B device in accordance with the specifications in Subpart "B" of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in any residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to television or radio reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
· Re-orient the receiving antenna
· Relocate the alarm control with respect to the receiver
· Move the alarm control away from the receiver
· Connect the alarm control into a different outlet so that alarm control and receiver are on different circuits.
If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the FCC helpful: "How to Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock # 004-000-00345-4.

Limited Warranty

Digital Security Controls Ltd. warrants that for a period of twelve months from the date of purchase, the product shall be free of defects in material and workmanship under normal use and that in fulfilment of any breach of such warranty, Digital Security Controls Ltd. shall, at its option, repair or replace the defective equipment upon return of the equipment to its repair depot. This warranty applies only to defects in parts and workmanship and not to damage incurred in shipping or handling, or damage due to causes beyond control of Digital Security Controls Ltd. such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment.

The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of any and all other warranties, whether express or implied and of all other obligations or liabilities on the part of Digital Security Controls Ltd. This warranty contains the entire warranty. Digital Security Controls Ltd. neither assumes, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

In no event shall Digital Security Controls Ltd. be liable for any direct , indirect or consequential damages, loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation or operation or failure of this product.

Warning: Digital Security Controls Ltd. recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

DSC™
Security Products

WLS904P-433
Wireless Motion Detector

INSTALLATION INSTRUCTIONS

The WLS904P is designed to combine the convenience of a wireless detector with effective and reliable detection of human motion as well as good protection against the nuisance alarms associated with pets weighing up to 60 lbs (27.3 kg)

Installing The Detector

WLS904P provides effective immunity to single or multiple pets whose total combined weight does not exceed 60 lbs. (27.3kg) when installed and configured in the following manner.

Location

Select a detector location that will provide the coverage required and will allow the detector to be mounted a minimum of 6 ½ ft (1.95m) high and not higher than 10ft (3m) **(7½ ft / 2.3m recommended)**.
**Consider the following to avoid false alarms:**

• *Do not aim the detector at a stairwell to which a pet has access to.*
• *Do not place furniture or objects higher than 3ft (0.9m) which a pet can climb onto (e.g. a cat on a couch), closer than 10ft (3m) from the detector.*
• *Mount the detector flat on a wall or in a corner. Do not angle it downwards or use mounting brackets with this detector when it is used in conjunction with pets.*
• *Do not aim the detector at reflective surfaces such as mirrors or windows as this may distort the coverage pattern or reflect sunlight directly onto the detector.*
• *Avoid locations that are subject to direct high air flow such as near an air duct outlet.*
• *Do not locate the detector near sources of moisture such as steam or oil.*
• *Do not limit the coverage by large obstructions in the detection area such as plants or cabinets.*

(!) *No detector should be mounted without first performing a module placement test to determine that it is in range of the wireless receiver. See the Placement Test instructions in the Instruction Sheet for your receiver, or in the installation manual for your system.*

When a location has been determined, remove the plastic from the mounting holes and locate the backplate on the wall and mark screw locations. It is suggested that wall anchors be used for all screw locations. Secure the backplate to the wall, and then secure the enrolled Detector to its backplate.

TOP

ENSURE PROPER ORIENTATION OF BACKPLATE

MOUNTING HOLE KNOCKOUTS

CORNER MOUNTING KNOCKOUTS
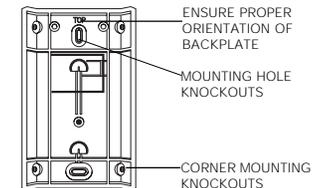
MOTION DETECTOR BACKPLATE

W A R N I N G
Please refer to the System Installation Manual for information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer.

Enrolling a WLS904P

On the back of the PIR housing, there will be two serial numbers: a five-digit number and a six-digit number. Please refer to your receiver installation manual for information on which serial number should be enrolled. *NOTE: If using a WLS900 system, you must use the five-digit serial number.*

Changing the Sensitivity Setting

The WLS904P features "Fast" and "Slow" settings on jumper J1 which is used to configure the detector for the weight of the pet(s) and the environment. For an environment with a single pet whose weight does not exceed 30lbs (13.6kg) the jumper should be set to "Fast" setting. In an environment with single or multiple pets whose combined weight is greater than 30lbs (13.6kg) but not greater than 60 lbs. (27.3kg) the jumper must be set to the "Slow" setting. In a hostile environment or where the installation conditions can not be controlled J1 must be set to the "Slow" setting.

WLS904
Motion Detector with
Three-pin Jumper

J1
FAST
SLOW

Jumper J1 set to FAST
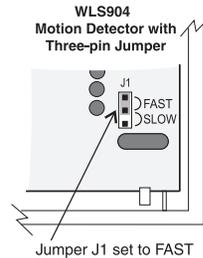
The diagram above shows the jumper location. To change the setting from Fast to Slow, move the jumper over one pin, as shown in the diagram.

High Traffic Shutdown Mode

To prolong battery life, the motion detector uses a feature called High Traffic Shutdown. When motion is detected, the device will transmit to the receiver and will then shutdown for six minutes. Should motion be detected during this shutdown time, the unit will not transmit the event to the receiver but will re-set the shutdown time to three minutes, regardless of how much of the six minute shutdown has elapsed. If motion is detected anytime during the three minute shutdown the detector will not transmit but will reset the shutdown time to three minutes again. When motion is detected after a full three minute shutdown period the detector will then transmit to the receiver and initiate the six minute shutdown sequence again.

The High Traffic Shutdown Mode affects testing the motion detector in two ways:

When performing the **module placement test**, the unit must be tampered by removing the unit from the backplate and replacing it. The placement test cannot be performed by creating motion in front of the device.

When performing a **system test**, the unit must be left idle for three minutes before testing can be performed. Once three minutes has passed, create motion in front of the detector to see if the device is both detecting motion and transmitting to the receiver.

Motion Detector Transmission Delay

A motion detector transmission is always delayed by six seconds. This is necessary to prevent false alarms caused by a motion sensor transmitting before a delay zone has a chance to report. This six-second delay cannot be altered or disabled.

Walk Test Mode

The motion detector has a walk test mode which will activate an LED for testing purposes. During normal operation, the LED will not turn on.

To put the detector in walk test mode, create a tamper by removing the detector from its backplate and then replacing it. Each time the detector senses motion, it will turn on the red LED. Five seconds after motion is detected, the detector will send a signal to the receiver, and the LED will flash rapidly 5 times. The detector will be in walk test mode until it has sent 10 transmissions.

To verify the pet immunity of the detector place the animal(s) within the coverage area and then move out of the zone. Encourage the pet to move around as it normally would and ensure that it moves across the detection pattern of the detector. Verify that no alarm is initiated.

To test for catch performance of humans, create motion in the entire area where coverage is desired by walking perpendicular to the lens pattern. Should the coverage be incomplete, readjust or relocate the detector.

⚠ *The Walk Test Mode will override the High Traffic Shutdown Mode.*

Detection Pattern

"Fast" Setting - 40ft x 40ft
"Slow" Setting - 35ft x 35ft

SIDE VIEW

TOP VIEW