

# WLS904-418

# WLS904-433

## Wireless Motion Detector

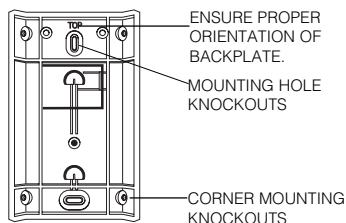
### INSTALLATION INSTRUCTIONS

Each WLS904 motion detector should be located so that it provides optimal coverage of the intended area. Refer to Changing Motion Detector Lenses below for information on the four lenses available for the WLS904 Motion Detector. When locating motion detectors, observe the following:

- For the Wall-to-Wall, Corridor and Curtain Lenses, the Mounting Height should be 6-10 ft./ 2-3 m from the floor. The nominal mounting height is 7.5 ft./ 2.3 m.
- For the Pet Alley Lens only, the Mounting Height should be 4-5 ft./1.2-1.5m from the floor.
- Do not aim the detector at reflective surfaces such as mirrors or windows. This may distort the coverage pattern or reflect sunlight directly onto the detector. Avoid locations where the detector may be exposed to direct or reflected sunlight.
- Avoid locations that are subject to direct air flow, such as near an air duct outlet.
- Do not locate the detector near sources of steam or oil vapor, such as a stove or fryer.
- Do not obscure the Detector's coverage pattern with large objects within the detection area. If you can't see the detector, it can't see you.
- For indoor use only
- Dead zone 6"/15 cm

***NOTE: 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.



Motion Detector Backplate

### • WARNING •

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.

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## Changing Motion Detector Lenses

Each motion detector is supplied with the Wall-to-Wall lens; three additional lenses are available for the WLS904 motion detector. The charts on this page illustrate the range and coverage patterns of each lens.

To change the lens, first open the motion detector by removing the screw in the bottom of the battery compartment. With the screw removed, pull the back of the detector away from the front case.

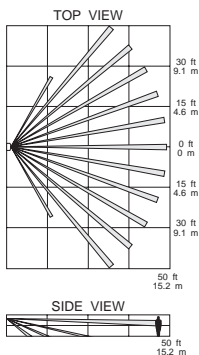
**NOTE: The coils and antenna on the motion detector circuit board are very sensitive components precisely adjusted for maximum performance. Do not touch the coils or antenna! Even minor distortions can affect the performance of the motion detector.**

Remove the lens holder by pressing down on the top of the holder and pulling the holder away from the case. When installing the new lens, ensure the grooved surface faces the interior of the case, and the notches on the lens face the bottom of the case. Replace the lens holder by snapping it back into place.

Reassemble the motion detector by first engaging the clips on the bottom of the case. Close the case and then secure the case with the screw in the bottom of the battery compartment.

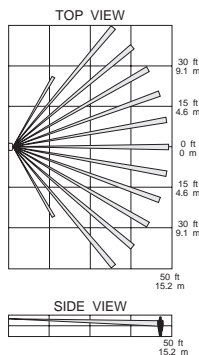
### Wall-to-Wall Lens DSC Model BV-L1

Range: 50' L x 60' W (16 m x 18 m)



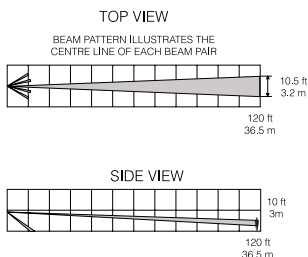
### Pet Alley DSC Model BV-L4

Range: 50' L x 60' W (16 m x 18 m)



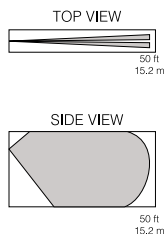
### Corridor Lens DSC Model BV-L2

Range: 120' L x 10.5' W (36.5 m x 3 m)



### Curtain Lens DSC Model BV-L3

Range: 50' L x 4.4' W (16 m x 1.3 m)



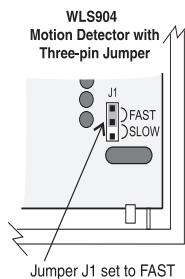
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## Changing the Motion Detector Sensitivity

The motion detector features Fast and Slow detection modes, which are set on jumper J1. Jumper J1 is set at the factory for the Fast detection mode. In a normal operating environment, this setting provides the best detection.

In certain environments where rapid air movement, heaters and other variables present problems, use Slow detection mode to stabilize the detection.

Jumper “J1” is located in the bottom right corner of the circuit board. 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 shut down for six minutes. If motion is detected again during the first six minute shutdown time, the unit will reset the shutdown timer to three minutes. Each time the detector is tripped during the shutdown time, the timer will be reset to three minutes again. The detector will thus remain in the shut down mode until it does not detect motion for an entire six minute period.

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

- When performing the **module placement test**, you must tamper the unit. To do this, remove the detector from the backplate and then replace it. Once the detector is replaced on the backplate the panel will show and/or sound the result of the placement test at the keypad.
- When performing a **system test**, the unit must be left idle for six minutes before testing can be performed. Once six 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 five seconds. This is necessary to prevent false alarms caused by a motion sensor transmitting before a delay zone has a chance to report. This five-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.

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

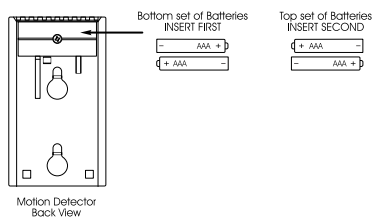
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## Battery Installation

- **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.

## 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.

