



Innovator in Wireless Security System Ltd.

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FW-P500 WIRELESS PIR DETECTOR

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Explanation of the block diagram

The FW-P500 wireless detector is Battery powered passive infrared motion detector (ASIC based) with an onboard transmitter. It has unique Automatic Power Saver (APS) circuit designed to conserve battery life. Both transmitter and detector circuits are powered by a commercial 2/3 AA Lithium battery with up to 3 years of battery life.

When the passive infrared sensor detects motion in its field of view, the ASIC triggers the on-board transmitter that Transmits its specific ID followed by an alarm signal and battery condition. The APS (Alarm Power Saver) mechanism is that alarm signal is transmitted only after 2 minutes of mask time after the last event of the alarm.

If detector cover is removed - a microswitch is opened and the ASIC triggers the on-board transmitter for tamper signal.

A periodic Transmission for supervision purposes takes place automatically once in ~ 60 min.

In the event of low battery, when the power supply drops below the threshold level, low battery signal will be transmitted at supervision transmission.