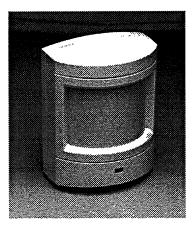# DS924i Motion Sensor

Interactive Technologies, Inc.

WIRELESS

Security
Automation
Access Control

ITI Part # 60-511-01-95

Overview

The DS924i Motion Sensor is a supervised, wireless sensor that detects intruders in large, open areas and can monitor multiple entry points. The sensor also includes a built-in tamper switch that causes an alarm, if an intruder attempts to remove the sensor from its mounted location.

With seven different lenses available, the DS924i can handle virtually any motion sensor application, including curtain coverage for display windows, long-range coverage for hallways and corridors, and pet-alleys so house pets won't trigger an alarm.

Wireless technology adds flexibility to any installation, by allowing the DS924i to be located anywhere protection is needed. A built-in walk-test feature lets installers verify the extent of the area protected by the sensor.

ITI's patented Learn Mode technology makes the DS924i Motion Sensor quick and easy to install. The sensor is given a unique identification code at the factory, eliminating sensor programming. And like most ITI wireless sensors, the DS924i sends battery and transmitter status signals to the security system's control panel. That way, system users are reassured that the DS924i is working properly.

Features

DS924i Motion Detector features include the following:

- Reliable, state-of-the-art wireless technology
- Learn Mode technology for easy installation
- Wall-tamper that causes an alarm if the sensor is removed
- Lithium battery that lasts 3 to 5 years
- 3-minute lockout timer that extends battery life
- Supervision of battery and transmitter status

DS924i Motion Detector (PIR)

System Functions

Battery	3.6 VDC, 1/2 AA lithium thionyl chloride battery
Typical Battery Life	4 to 5 years
Transmitter Frequency	319.5 MHz (crystal-controlled)
Transmitter Frequency Tolerance	±7 KHz
Bandwidth	24 KHz
Modulation Type	Amplitude Shift Key (ASK)
Unique ID Codes	16 million
Peak Field Strength	>40,000 µV/m @ 3m
Supervisory Interval	64 minutes
Adjustable Detection Sensitivity	Standard, Intermediate, or High
Coverage Pattern	Includes standard 40' x 40' lens (multiple lenses and masking kit available)
Circuit Board	Single board design
Operating Temperature	10°F (-12°C) to 120°F (49°C)
Enclosure	High-Impact ABS Plastic
Weight	4.6 oz
Dimensions	4 in (1.6 cm) x 3 in (1.2 cm) x 2.5 in (1 cm)
Color	Belgian grey
UL Standard	UL 639
FCC Standard	FCC Part 15

Installation

Mounting Location	Mount 5 to 8 feet above the floor, in a location with a reference point (such as a wall) at the end of the detection pattern.
System Programming	Place the panel in program mode (learn sensors). Remove the detector's cover to activate the tamper switch to add the sensor ID code into panel memory.
Testing	Set to walk test mode by pressing the walk test switch. Walk through the coverage area and verify detection by watching for the indicator light to turn on. After 75 seconds of inactivity, the detector automatically returns to normal operation.