

Data Sheet:

Arial® Wireless 360° Motion Detector

Overview

The Wireless 360° Motion Detector is appropriate for ceiling-mount applications and large open spaces. Advanced signal processing recognizes human signature size and movement, reducing false alarms. The sensor is equipped with a special hard lens that provides large coverage patterns even at low height. It is immune to sunlight, halogen light, and fluorescent light. The enclosure is resistant to tampering.

Key Functions

Occupancy Detection

Can be used to detect if there is a resident in a room.

Automatic Check-In

Can be used for automatic check-in of residents.

Battery Sleep Time

Designed specifically for wireless applications, this PIR has a 180 second fixed or variable sleep time. When the variable sleep time is chosen, it has the intelligence to remain in sleep mode beyond 180 seconds during high-traffic periods to provide extended battery life.

Ceiling Mount Design

Ideal for applications where 360° PIR coverage is preferred.

Supervision

The cover tamper and battery activity are supervised. Monitoring helps ensure reliable operation.

Cover Tamper

The cover tamper switch notifies the system when an attempt is made to remove the sensor cover.

A Note About Pet Immunity

This device may not be suitable for your facility if you have free-roaming pets. For more information, see Arial Discriminating PIR ES (Pet Immunity) p/n 55365.



Product Highlights

- 360° by 20 m (65.6 ft) coverage for a single room with one device
- Range and field configurable
- Automatic supervision
- Low power consumption
- Immunity to Radio Frequency Interference (RFI), vibration, static, lightning, and ambient temperature changes

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Technical Specifications	
Model	Wireless 360 Motion Detector
Part Number	55366
Electrical	
Power	3.0 V, 2.2 Ah
Battery Replacement	Duracell DL123A, Panasonic CR123A, or approved equivalent. Not all brands are equivalent. Use the brands specified.
Battery Life (avg)	4 years. Typical battery life shown is for supervised operation using recommended check-in times. The battery life of a PIR sensor is highly dependent on traffic in its coverage area.
Sleep Time	Fixed or variable - has a standard fixed sleep time of 180 sec; variable sleep time allows remaining in sleep mode longer to extend battery life in high-traffic environments.
Environmental	
Relative Humidity	10% to 90%, non-condensing
Temperature (operating)	0°C to +49°C (+32°F to +120°F)
Mechanical	
Dimensions	13.1 cm x 5.7 cm (5.2 in. x 2.5 in.)
Weight	185 g (6.52 oz)
Transmission Characteristics	
Frequency	902 MHz to 928 MHz