

New Product Introduction

PaPIRs+ Passive Infrared Motion Sensors

Double the Detection Power: Unveiling High-Performance PaPIRs+ Sensors



Panasonic Industry proudly unveils the next generation of passive infrared (PIR) motion sensors, the **PaPIRs+ Sensors**. These advanced Sensors represent a significant leap in motion detection, emphasizing superior sensitivity, seamless integration, and ultra-low power consumption. Building on the success of the original PaPIR series—over 100 million units shipped—the PaPIRs+ sets a new standard for modern applications in lighting, HVAC, security, smart appliances, and IoT devices.

The innovative **PaPIRs+ Sensors** offer up to 2x the sensitivity of traditional PIR sensors, featuring a large, black-coated pyroelectric element. With improved sensitivity, this provides exceptional detection capabilities at distances up to 24 meters, recognizing minute movements against temperature differentials as low as 2°C. Designed for energy efficiency, models in the PaPIRs+ lineup have standby currents as low as 1µA, 2µA, and 6µA (EKMB Series) for battery-powered solutions, along with standard 170µA models (EKMC Series) for battery-free systems.

The new **PaPIRs+** combines lens, sensor, and proprietary ASIC into a compact unit for easy integration, accelerating development and reducing costs for OEMs. This in-house ASIC guarantees high noise immunity and consistent signal processing, minimizing false alarms.

Our diverse lens lineup includes over ten types, such as Flat Wide, Long Distance, and Ultra Wide & Long Distance. These are available in black, white, and pearl white colors, supporting both standard (EKMC) and ultra-low power (EKMB) models. This variety allows for customized solutions across various applications, from standard motion detection to ultra-slight movements.

With their compact size, the **PaPIRs+ Sensors** excel in tight spaces and modular integrations, making them ideal for advanced lighting controls, HVAC, security applications, smart devices, and the expanding world of IoT.

Experience the future of motion detection with **Panasonic Industry's PaPIRs+ Sensors**—where innovation meets reliability.

Features and Benefits

- Up to 2x Sensitivity: Better detection than traditional PIR sensors
- Up to 24 Meter Range: Detects motion at long distances
- Works with Small Temperature Changes: Detects movements with just a 2°C difference
- Ultra-Low Power: Extremely low standby currents (1µA, 2µA, 6µA & 170µA)
- Compact Design: Easy to integrate into various devices
- Minimized False Alarms: High noise immunity
- Variety of Lens Options: Over ten types available in different colors
- Custom Solutions: Compatible with both battery-powered and battery-free models
- Space-Efficient: Fits well in tight spaces
- Versatile Applications: Suitable for lighting, HVAC, security, smart devices, IoT & more

Market Sectors and Applications

- Lighting: High bay, street, indoor, office, closet, restrooms
- HVAC / IoT: Thermostats, IoT devices, room occupancy, IP cameras, AI speakers
- Appliances: Air purifiers, wall-installed air conditioners, ceiling fans, digital signage, refrigerators
- Security & Smart Home: Motion detection, occupancy sensing, alarm systems