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Discreet and elegant: Panasonic Industry launches its first flat lens, high-performing PIR sensor

Aesthetics meets breakthrough performance with next-generation PaPIRs+ detection technology

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Panasonic Industry announces the launch of its latest innovation in PIR motion sensors: the **Flat Wide Detection Type (12 lens)**, being the first product incorporating the new **PaPIRs+ technology**.

Engineered for modern building automation, professional lighting control, and smart home markets, the **Flat Wide Detection Type** features a sleek, discreet flat lens that seamlessly integrates into any aesthetically demanding application. Its wide field of view of 136.4° × 135.4° maximizes coverage, reducing the number of sensors needed and simplifying installation.

By redesigning the pyroelectric elements, PaPIRs+ delivers twice the sensitivity compared to PaPIRs series, enabling it to detect even small movements across a large area with exceptional accuracy. This advancement ensures reliable performance in diverse settings, from offices and schools to residential spaces.

Specifications of the new **Flat Wide Detection Type PaPIRs+ sensor**:

- Maximum coverage of ≈ Ø15 m at 3.0 m ceiling mounting height
- 416 detection zones providing gap-free motion detection
- Lens diameter: 32.6 mm
- Current consumption: four variants ranging from 1 µA to 170 µA
- Output interfaces: digital (open-drain) and analogue (op-amp)
- Operating temperature range: -20 °C to +60 °C
- Lens color options: white, pearl white, and black
- Lens form factor identical to the High-Bay Aisle sensor: "Ultra-Wide and Long-Distance Detection Type (11-lens)"
- Lens design supports O-ring sealing for enhanced IP ratings

"Our new "Flat Wide Detection" sensor exemplifies the fusion of flat design with outstanding detection performance. Thanks to PaPIRs+ technology, it detects very small movements of not only moving but also sitting individuals across a large area, it is perfectly suited for applications in office environments, hotels, or public offices." says Robert Spiegler, Lead Product Manager Industrial Sensors. "This sensor combines sleek, compact aesthetics with unparalleled sensitivity. It sets a new standard in product design and detection performance!"

This latest **Flat Wide Detection Type** represents a **significant leap forward in PIR sensor technology**, setting a new standard for aesthetics, sensitivity, and ease of installation.

The PIR sensor's capabilities for tangential, radial and minor motion were extensively tested in Panasonic's laboratories in Japan under standardized IEC63180 measurement and test norms. In case you are interested in the detailed results and test procedures, please approach Panasonic Industry at [Embedded World](#), 10th-12th March in Nuremberg, booth 4A-103 or reach out to us via [email](#) or on [Flat Wide Detection Type \(12 lens\)](#), to arrange a background talk with our expert Robert Spiegler.

About Panasonic Industry Europe GmbH

Panasonic Industry Europe GmbH is part of the global Panasonic Industry organization, one of the eight major operating companies within Panasonic Holding. Panasonic Industry Europe provides products and services for industrial customers all over Europe.

Panasonic Industry Europe is committed to enabling customers to achieve their goals in a broad range of industrial sectors such as mobility, infrastructure, automation, medical, appliances, smart living, and security. With the know-how of devices and solution technologies, cultivated through a global mindset and over a century of tradition, Panasonic Industry collaborates closely with customers to create a sustainable future.

Panasonic Industry Europe's broad and diverse product portfolio encompasses key electronic component sectors including electromechanical and passive components, batteries and other energy products, sensors and wireless connectivity modules, thermal management materials and custom solutions, as well as automation devices & solutions.

More about Panasonic Industry Europe: <http://industry.panasonic.eu>

About the Panasonic Group

Founded in 1918 and today a global leader in developing innovative technologies and solutions for wide-ranging applications in the consumer electronics, housing, automotive, industry, communications, and energy sectors worldwide, the Panasonic Group switched to an operating company system on April 1, 2022, with Panasonic Holdings Corporation serving as a holding company and eight companies positioned under its umbrella.

The Group reported consolidated net sales of Euro 54.12 billion (8,496.4 billion yen) for the year ended March 31, 2024. To learn more about the Panasonic Group, please visit: <https://holdings.panasonic/global/>