SENSOTEC NET sensors: Product updates

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The SENSOTEC NET portfolio is significantly expanding its functionality: a firmware update is available for the Silvair ecosystem that brings the benefits of Bluetooth® NLC and enables new sensitivity settings. In addition, the NET sensors are now compatible with the Casambi and Ingy ecosystems, offering luminaire manufacturers even more choice.

Silvair Ecosystem: Firmware update September 2024

1. Bluetooth® NLC certification

The SENSOTEC NET sensors in the Ecosystem Silvair are now Bluetooth® NLC certified. Bluetooth® NLC (Bluetooth Networked Lighting Control) is a significant extension of the Bluetooth Mesh protocol that enables seamless network integration and improved interoperability between devices from different manufacturers. This certification represents a comprehensive wireless lighting control standard specifically designed for commercial environments. Bluetooth® NLC ensures high scalability, reliability and promotes the widespread adoption of wireless lighting control.

Key features of Bluetooth® NLC:

- **Extended interoperability:** Bluetooth® NLC ensures that devices from different manufacturers can be easily integrated into the same network. This reduces the complications of network configuration and promotes wider acceptance of the technology.
- **Simpler network configuration:** The configuration of networks is simplified by the new Bluetooth® NLC functions. This saves time and reduces the effort involved in setting up and managing networks.
- **Increased robustness:** The new network configuration mechanisms ensure greater reliability and robustness of the networks, resulting in better performance and stability.

2. Setting the sensitivity of the motion detection

With the firmware update, the sensor sensitivity of the **HF2 NET sensor** can now be precisely adjusted in the Silvair mobile app using a practical slider (default setting 80%).

- **The advantage:** Users can set the detection area more precisely and minimise unwanted false switching caused by non-essential movements such as air currents from HVAC systems or random movements.
- **The result:** Improved accuracy in sensor-based control strategies, improved user experience and increased system reliability.

For **PIR sensors** (HB PIR 345 NET, HB PIR 3360 NET and PIR NET), it is now possible to deactivate the sensor (setting to 0%).

To benefit from these new functions, existing sensors must be updated to Silvair firmware version 2.31.0 and Steinel (external) firmware version 1.3.0 via the Silvair mobile app.

- Silvair: OTA firmware update (Englisch, 11.2023)
- Bluetooth SIG: Introducing Bluetooth NLC – A Milestone in the Interoperability Journey (English, 09.2023)

New ecosystems: Casambi and Ingy

This expands the choice for companies when integrating sensor solutions. Like Silvair, Casambi is based on Bluetooth Mesh, while Ingy relies on Wirepas Mesh to ensure reliable handling of the sensors via remote access or on-site via wireless connection. The sensors are configured and managed via a desktop application or smart devices such as a tablet or smartphone.

'We can support companies in selecting the ecosystem. The decision is often based on compatibility considerations with other technologies already implemented in the company,' explains Andrea Lachner, Business Development & SENSOTEC at STEINEL Solutions AG.

For luminaire manufacturers who use their own solution for radio-based lighting control, the specifications of the SENSOTEC sensors can be customised in a development project on request.

About SENSOTEC

The SENSOTEC portfolio from STEINEL Solutions offers OEM luminaire manufacturers innovative and flexible sensor solutions that can be easily integrated into luminaires without any design restrictions. Specially developed for the lighting industry, the high-precision sensors are designed for a wide range of applications, such as in pendant luminaires, linear luminaires, moisture-proof luminaires and surface-mounted LED luminaires.

SENSOTEC sensors can also be used in other industries, such as sanitary engineering, HVAC or household appliances, with minimal effort. Whether as a monoblock system or with wireless mesh network capability, the sensors support multiple protocols and offer a wide range of interfaces for seamless integration into existing systems. With SENSOTEC, you get the perfect combination of functionality, flexibility and easy installation for state-of-the-art sensor technology in a wide range of applications.

About STEINEL Solutions AG

As an OEM partner with 120 employees in Switzerland, STEINEL Solutions AG provides its customers with a service package comprising consulting, product development, industrialisation, manufacturing and services from the idea to the finished product - in the spirit of a one-stop shop. With sensor technology, communication, low power management and approval management as expertise in the field of development, the company develops customer-specific product applications and customised solutions and counts both well-known market leaders and numerous hidden champions among its customers. Thanks to its affiliation with the STEINEL Group, STEINEL Solutions has access to a Europe-wide network. Depending on the product life cycle and market success, it is therefore possible to scale quickly and adequately and to expand the series assembly of large-volume products to other locations. Further information can be found at www.steinel.ch.

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