

Steinel UK Limited

Subject area: energy efficiency, passive infra-red sensors

Title: Steinel helps to cut carbon footprint at University of Worcester

Date: 28 February 2012

Summary

As part of the University of Worcester's Carbon Management Programme for reducing energy usage, Steinel's sensors and sensor lights were installed throughout the university, in order to improve lighting levels whilst reducing energy consumption.

The problem

The University of Worcester was struggling with rising energy costs, and lights being left on in empty classrooms, corridors and washrooms was identified as a key contributor. As a bearer of the Carbon Trust Standard, the university had also made a commitment to cut out energy waste and drive down its carbon emissions.

The approach

Steinel provided a free lighting energy survey to the university, and the survey indicated where savings could be made, the length of payback periods and potential for carbon savings. The University of Worcester was therefore able to make an informed decision to install BLS sensor lights in its classrooms, IS345 corridor sensors in the corridors, and HF3360 radar sensor lights in the toilets. With over 1,320 switching zones, these sensors have been able to ensure that lights are kept on only when a room is in use.

Our goals

- Lower electricity bills.
- Reduced carbon footprint.
- Improved light quality.
- Instant illumination (with no starting flicker or hum) to ensure health and safety of students using the university.

Obstacles and solutions

Obstacle	Solution
Major installation work would disrupt the running of the university.	The Steinel HF3360 sensors respond more or less instantly to any movement in the detection zone, regardless of temperature and walking direction. This makes it possible to watch over large indoor spaces reliably and without the need for major installation work.

Performance and results

By using sensors to make sure rooms and corridors are only lit when people are actually using them, the University of Worcester has been able to cut out instances of energy waste.

Lessons learned

The university has been able to drive down its electricity bills and reduce its carbon footprint, showing an on-going commitment to sustainability.

Further information

- Steinel: www.steinell.co.uk EAUC Green Directory: www.eauc.org.uk/steinell_uk_limited_silver_member
- University of Worcester: www.worcester.ac.uk

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Company profile

Steinel is the market leader in the field of lighting sensor technology. With over 50 years experience in the design and manufacture of high-quality sensors, it's not difficult to see why 21 million of our products are installed worldwide. Steinel's product range is so comprehensive we are able to provide a product and a solution for every application – whether it is for use in domestic, commercial or industrial applications.

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