

## Steinel UK Limited

### Subject area: energy efficiency, passive infra-red sensors

#### Title: Steinel helps to reduce energy consumption at Bristol University

Date: 28 February 2012

#### Summary

In a bid to improve lighting levels whilst reducing energy consumption, Steinel's RS Pro Sensor light fittings were installed in the corridors of Bristol University, in line with the university's Environmental Policy for reducing its carbon footprint.

#### The problem

Bristol University's School for Policy Studies is located in a series of large Victorian villas, but the buildings' corridors are enclosed and receive no natural daylight. Because of the lack of natural illumination, the lights were previously switched on all day, leading to a large outlay on electricity. The diffusers had also aged and yellowed, resulting in poor light quality.

#### The approach

Bristol University established that it needed to replace the existing 28W2D luminaires with an energy-efficient light fitting that could provide good light output, and presence detection to ensure the lights would operate only when required. The Steinel RS Pro Sensor light fitting (incorporating an integral microwave presence detector) was selected for its good light output and ability to provide accurate and easy adjustment of light levels.

#### 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 walking the corridors.

#### Obstacles and solutions

Obstacle	Solution
Rewiring the corridors would cost thousands in installation costs.	The integral sensor enables the RS Pro Sensor to be connected to the existing circuit wiring in one simple operation, without the need to wire separate presence detectors.

#### Performance and results

With no need to extensively rewire the corridors, the installation was rapid and cost-effective. The sensor-controlled lighting that is now in place means that Bristol University has been able to drive down its electricity bills and reduce its carbon footprint, in line with its on-going commitment to sustainability.

#### Lessons learned

Feedback from the department has been very positive, in terms of much improved light quality and performance, as the lights are off when they are not needed and have a quick response time when someone is detected in the corridor.

#### Further information

Steinel: [www.steinel.co.uk](http://www.steinel.co.uk) EAUC Green Directory: [www.eauc.org.uk/steinel\\_uk\\_limited\\_silver\\_member](http://www.eauc.org.uk/steinel_uk_limited_silver_member)

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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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