



BIOMASS PLANT – BANHAM POULTRY

Banham Poultry Limited is a family owned business at the forefront of poultry production and is committed to supplying fresh poultry products throughout the United Kingdom.

Over 40 dedicated farms provide approximately 650,000 birds per week to the Banhams processing site at Station Road. Banhams objective is to become more sustainable, particularly with regards to waste disposal and have built a state of the art Biomass plant at Uphouse farm, processing poultry litter and other waste into electricity for the national grid.

The power plant is capable of handling up to 1,200 tonnes of material per week and electricity output is 5.5 megawatts at full capacity, enough to power more than 7,000 homes from chicken by-products.

The Biomass plant requires a reliable method of providing fire detection in a relatively large structure, the fuel storage area alone is large at approximately 80m in length and 25m wide. Infra Red Beam detectors were quickly discounted as a suitable fire detection method as they don't cope very well with building movement and excessive build up of contamination. This led Banhams to discussions with Xtralis partner, Eurofyre who recommended a reliable solution from the Xtralis stable, OSID Open Area Smoke Imaging Detection.

OSID is able to provide volumetric coverage with as many as seven emitters placed within the field of view of a single imager, each placed at different heights. The imager's large viewing angles, both horizontal and vertical, enable three-dimensional area coverage for design flexibility and additional deployment savings. The system is also uniquely tolerant of very high amounts of building flex and movement and its use of dual wavelength Infra red and Ultra Violet beams means it is far less susceptible to false alarms caused by airborne dust and contamination. OSID overcomes the weaknesses of traditional detection solutions used in large, open spaces. In its simplest configuration, OSID resembles a beam detector but is an entirely new technology.

Biomass Power Plant

Banham Poultry

Location:

Attleborough, Norfolk, United Kingdom

Industry:

Chicken Producer, Biomass plant

Installation Partner:

Eurofyre

Solutions:

OSID Imager (OSI-90) and two OSID Emitters (OSE-SP)

Benefits:

- Works reliably in environments where Infra Red beams struggle
- Tolerant of misalignment caused by building movement typical in large structures without causing false alarms
- Simple installation and commissioning - up to 70% time saving compared to traditional beams



...a far more reliable solution due to its use of Imaging and dual-frequency Infrared and Ultraviolet technology”.

— David Davies
Eurofyre



OSID has been installed in our customers Biomass plant for over a year now and we're delighted that we never have to worry about when the next false alarm or fault will occur. It does exactly what Eurofyre told us it would do”.

— Kevin Sparkes
Manager
E Fire

ABOUT OSID BY XTRALIS

- Simple installation and commissioning - up to 70% time saving compared to traditional beams
- Low maintenance, saving both time and expense
- High tolerance to vibrations, building movement and high airflow
- Dramatically reduces false alarms
- High resistance intruding objects such as dust, fogging, steam, reflections, sunlight, birds, insects and forklifts
- The Imager requires only 20 cm (8 in) free space for installation

eurofyre
LIMITED

Why Eurofyre

Eurofyre Limited is a privately owned company established in 2007, specialising in the supply of fire detection and associated safety products throughout the United Kingdom and Ireland.

The aim of the company is to provide a high quality of service for all customers through excellent technical and sales support located regionally with a comprehensive range of products and immediate response to the customers needs. All Eurofyre personnel have extensive experience and expertise within the fire industry and can ensure that, whatever your requirement, can provide only the best product solution.



OSID by Xtralis
(Open-area Smoke Imaging
Detection)



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