



**FIREbeamXtra**  
Smoke Detection

## Range Overview

# FIREbeamXtra

## Smoke Detection

The esp FIREbeam Xtra is a Reflective Beam Smoke Detector fully approved to EN 54-12:2015 which can offer a maximum detection range of 160 m.

The unit's newly designed optics increase sensitivity whilst the enhanced internal software reduces false alarms.

The detector comes with a separate controller unit which allows engineers to commission, monitor and maintain from ground level. Detection range is 70 m for the standard unit, increasing to 140 m or 160 m with the addition of the medium or long-range reflector kits.

The detector also features advanced motorised technology allowing it to self-align to the centre of the reflector during commissioning.

Once commissioned the detector continually monitors alignment and will automatically realign itself back to the centre of the reflector if any building movement occurs.

The FIREbeam xtra features an integral loop module allowing full connectivity to the Hochiki ESP analogue addressable loop.

### HOW DOES IT WORK?

An advantage of beam detectors is their ability to detect when smoke is scattered over wide areas. This is achieved due to the beam detectors using the obscuration method, which detects fire due to smoke particles obscuring the infra-red light along the sensing path.

When sufficient smoke blocks the infra-red light beam, reducing the received signal strength by a pre-determined

setting, a fire condition is generated. Such detection sensitivity enables the beam to identify a fire before it spreads. Unwanted alarms due to the beam being totally obscured for a short period of time can be filtered out by well-designed products (Hochiki's beam detectors, for example, use time-based algorithms to distinguish between unwanted obscuration and genuine fire conditions).

Reflective Beam Smoke Detectors are increasingly becoming the specifier's choice. Reflective Beam Detectors work by combining the transmitter and receiver into one unit and returning the beam via a reflector at the opposite end of the protected space, this allows cabling to a single point and therefore installation time (and cost) is significantly reduced.

### REFLECTORS & AUTO ALIGNMENT

With the reflector positioned on the opposite wall, the motorised emitter/receiver automatically locates it and auto-aligns its optics to maximise the integrity of the beam. In this way, when the emitter sends its beam to the reflector, it's reflected back directly to the receiver at its optimum strength. The auto-align feature remains in play so will also automatically adjust for any building movement.

The reflector that comes as standard with the product measures just a few centimetres across and provides a default maximum detection length of 70 metres. This, combined with a detection width of up to 15 metres gives the FIREbeam Xtra a total detection coverage of a staggering 1050 square metres (offering 450 metres additional coverage compared with our previous model, the FB-1).

By adding reflector extension kits, the detection length can be increased to 140 metres and even 160 metres, meaning one FIREbeam xtra, fitted with the largest reflector kit will be able to cover an area of 2400 square metres – that's nine tennis courts or a third of an entire football pitch!



Hochiki is a wholly independent, multinational, publicly listed group of companies with over 2000 employees working across six manufacturing plants, 38 sales offices and 14 subsidiaries.

One of the world's leading manufacturers of commercial and industrial fire detection and emergency lighting solutions, Hochiki has acquired global acceptance as the benchmark for high-integrity and long-term reliability.



**95%**  
*of customer reviews rated our product quality as "VERY GOOD" or "EXCELLENT"*

**89%**  
*of our customers are extremely likely to recommend our products based on quality*

**93%**  
*of our customers rated us as VERY GOOD or EXCELLENT.*

Statistics from the Hochiki customer service survey

Hochiki's facilities in Japan, the United States of America and Europe design and manufacture products and provide technical support suited to local standards and customer requirements.

Total commitment to meeting the needs of individual national markets has reinforced the company's global reputation, resulting in Hochiki products being installed in many prestigious sites and in over 80 countries worldwide.





## Demand & Applications



A number of building types have large open spaces including Warehouses, Leisure Centres, Shopping Centres, Cinemas, Museums, Hotels and Cathedrals. Beam Detection is ideal for these buildings as it has the ability to efficiently cover large areas.

The leisure industry is a rapidly growing industry with new buildings being built and old buildings being refurbished all the time. Due to this growth, there is now an increased demand for fire detection solutions for open spaces.

Leisure centres often have large open spaces, such as sports halls, gyms, galleries, swimming pools and cafés. With so many open spaces, if a fire was to start, it could quickly spread through the building which is why early detection is crucial.

# FIREbeamXtra

Smoke Detection

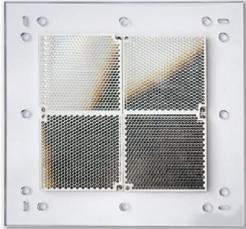
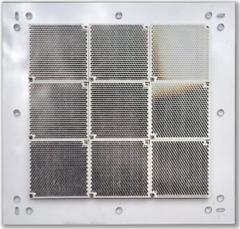
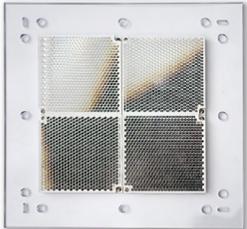
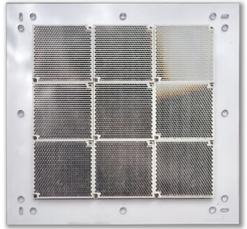
## Product Range



FIREbeam Xtra Emitter Receiver Unit



FIREbeam Xtra Low Level Controller

<p><b>ESP FIREBEAM XTRA</b> esp - includes Sensor, Controller and Single Reflector</p>	<p><b>REP-CONT</b> esp FIREbeam Replacement controller</p>	<p><b>70KIT140</b> esp FIREbeam Xtra Extension Kit - 70 to 140 metres</p>	<p><b>140KIT160</b> esp FIREbeam Xtra Extension Kit - 140 to 160 metres</p>	<p><b>70KIT140-AF</b> esp FIREbeam Xtra Antifog Range Extension Kit - 70 to 140 metres</p>	<p><b>140KIT160-AF</b> esp FIREbeam Xtra Antifog Range Extension Kit - 140 to 160 metres</p>
					



# FIREbeamXtra

Smoke Detection

**HOCHIKI EUROPE (UK) LIMITED**  
Grosvenor Road, Gillingham Business Park,  
Gillingham, Kent, ME8 0SA, United Kingdom

Telephone: +44 (0)1634 260133  
info@hochikieurope.com  
www.hochikieurope.com

ISS2/AUG24



Quality Certificate No.164QMS  
Assessed to ISO 9001

Environmental Certificate No.164EMS  
Assessed to ISO 14001



Business Member



Fire Industry Association



Affiliate Member



Your Safety  Our Technology