thefirebeam™

It's the ultimate optical beam smoke detector available today, it will self align when commissioning and continually re-align itself against building movement in normal service. Ease of use and unprecedented reliability make this the professionals choice for protecting life and property worldwide. Using this advanced beam will mean less time commissioning, less maintenance, reduced costs and importantly **less false alarms.**

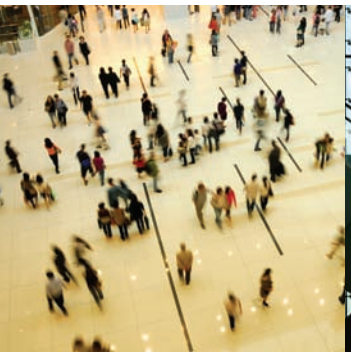
"this is by far the best beam money can buy"

thefirebeam™

Reflective optical beam smoke detector

Developed to overcome the problems of old outdated technology in beam detection this motorised beam now means that beam detection can be used reliably to produce cost effective solutions for protecting large areas.

Building movement and accessibility have, in the past, made beam detection unreliable, difficult, time consuming to commission and hard to maintain, but now by using the advanced motorised technology of thefirebeam unreliability is no longer a problem. thefirebeam will self align itself to the centre of the reflector when commissioning and will automatically keep alignment with the reflector when building movement occurs. This intelligent motorisation will mean less false alarms therefore saving time, resources, reputations and ultimately money.





Atriums Conference Halls Churches Museums Warehousing Manufacturing Facilities Airports Schools Historic buildings

Why accurate stepper motors make all the difference

Years of development mean that, by using stepper motors, the microprocessor intelligence in thefirebeam will move the beam with back-lash free pin point preceision in steps of 1/40th of a degree. Commissioning is a semi automatic procedure that aligns itself directly onto the centre of the reflector, not only that, once commissioned this system continually monitors alignment and will automatically realign itself back to the centre of the reflector if any building movement occurs.

Motors mean safe low level control

Because motors do the work, engineers can work from the safety of ground level. thefirebeams low level controller means that you can commission and adjust all major functions from the safety of ground level. You can even monitor when the beam needs cleaning.





Sports Centres Stables Leisure facilities Food processing Roof Voids Shopping Malls Exhibition halls Aeroplane Hangers

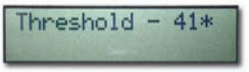
Low level control means safety and ease of working at ground level, and best of all.....

a display that means something. From the display and the menu system you can see exactly what the fire beam is up to and what it's doing, whether in normal service, changing settings, commissioning or performing routine maintenance, all relevant readings are displayed and easily 

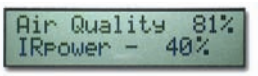
understood.

thefirebeam menu system

Commissioning menu - From this menu we perform all the actions required to commission the beam. Pre-alignment sets the power for the distance to be covered (anywhere from 5 to 100 metres). Manual alignment allows you to move the beam up down and left right. Auto alignment will align the beam automatically to the centre of the reflector. Once alignment is complete and fault and fire tests are carried out your firebeam is commissioned (usually well within an hour). 

Mode change menu - here we can make all the major adjustments. Threshold adjustments can be made anywhere between 25 and 50% sensitivity. Alarm auto reset alarm can be either latching or non latching. Time to Fire can be adjusted anywhere between 10 and 30 seconds. Time to Fault can be between 10 and 60 seconds. Green flashing light can be turned on or off. 

Beam Maintenance menu - perform routine maintenance and checks through here. Dirt Compensation check the amount of dust build up on the lenses and reflector (this means that you need only clean when its required). Events Count see how many times it has gone into fire and fault since commissioning or last cleared. Self Test fire test from ground level. Beam on / off turn the beam off if work needs to be carried out in the beam path (if you forget to turn it back on it will turn itself on in 8 hours). 

Diagnostics menu - monitor and adjust the power and receiver settings. IR power monitor and adjust the output power of the beam. Amp Gain 1 this is the dirt compensation amplifier. Amp Gain 2 monitor and adjust the receiver sensitivity. Temp view the temperature at the beam head. Vref internal voltage readings. VBB internal voltage readings. Software issue software versions of head and controller. 

"now selling in 25 countries thefirebeam is protecting lives and property in thousands of locations around the globe"

"using thefirebeam saves time and money"

Beam detection has always been seen as the most economical way to protect large areas but in the past, was seen as unreliable. Only now, with the introduction of thefirebeam's advanced technology, reliability is no longer a problem and can be used with complete confidence. This also means that great cost savings can be made over spot and air sampling systems, for example just one beam can be used instead of 16 spot detectors. Cost savings can be considerable. Wiring to a single head is more cost effective than fitting yards of air sampling tubing.
This advanced technology will also greatly reduce commissioning time, it is common to see 25 beams fully commissioned in less than one day. You simply start one beam off and move onto the next and then the next all from ground level. Spending hours working at height trying to align beams is a thing of the past.
Self alignment in normal service means not having to go back and re align the beam after building movement - again saving time and the expense of lifting equipment, not to mention the disruption this causes your customers.

What else sets it apart.....

Very low power, using only 3mA any state opens up a whole world of options. In some cases you can zone power the beam, for instance using an Apollo xp95 switch monitor with isolator allows you do just that and turns the conventional firebeam into an addressable unit.

IP65 means no ingress what so ever makes thefirebeam ideal for hostile environments such as food processing halls as it can be hosed down and IP65 also means nasty little creatures cant set up home inside and jeopardise the effectiveness of the detector.
The wipe clean design means you can clean the beam without knocking it out of alignment.

Approvals.....

VDS and CPD approval means thefirebeam is fully approved and quality audited.

0786

Patent No. 2 414 549

Awards.....

Winner of the International fire industry award for product innovation 2007

THE FIRE INDUSTRY AWARDS 2007

winner
of the 2007 fire Industry award for innovation

product innovation award sponsored by the

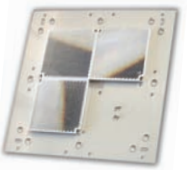
Fire Industry Association

The range.....

The standard firebeam

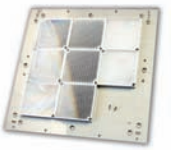
Use the standard beam for distances over 5 metres and up to 40 metres. Comes complete with head, low level controller, user manual, test filter and 3mm allen key.

Mid range distance kit



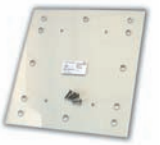
Use this for distances over 40 metres and up to 80 meters (simply add the single reflector from the standard firebeam).

Long range distance kit



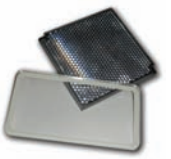
Use this for distances over 80 metres and up to a maximum of 100 meters (simply add the single reflector from the standard firebeam).

Unistrut adapter



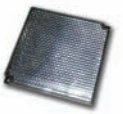
Specially designed to screw to the back of thefirebeam head, this adapter allows you to easily use Unistrut fixing systems.

Anti fog kit



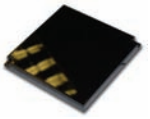
Specially developed to overcome the problems of condensation, this special kit contains a reflector and lens cover that have been treated with a special Nano technology finish that will not mist over.

Anti fog reflector



A single reflector with a nano technology finish, sold singularly.

Black reflector



In some situations you may want to disguise the reflector, in which case use this black reflector, which has no visible reflection to the human eye and is black in appearance (ideal for historic buildings etc).

"performance that will stand the test of time"

The advanced technology, simplicity of design, and ease of use have resulted in the most reliable optical beam detection available today. Backed by a five year guarantee and industry acclaimed technical support, using thefirebeam means years of trouble free service than can be relied upon.

Visit the web site for latest information and technical details

www.thefirebeam.com