"now covering up to **160** metres thefirebeam *Xtra* is by far the best beam on the market"

thefirebeam protection system Xtra



thefirebeam[™]

Motorised reflective optical beam smoke detector with low level control

Developed to overcome the problems of old outdated technology in beam detection, this motorised beam now means that beam detection can now be used reliably to produce cost effective solutions for protecting large open 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 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 Sports Centres Stables Leisure facilities Food processing Roof Voids Shopping Malls Exhibition halls Aeroplane Hangers

The new firebeam *Xtra* raises the bar even higher and further than anyone else

Everyone knows and use the firebeam and it has become the industry standard that all other beams are measured against. But not content with that we have introduced the new firebeam *Xtra* that keeps all the advanced technology of the firebeam plus but now boasts a world beating range of **160 metres**!

New revised optics

This new design incorporates all the leading features we have honed over the years and with the latest advanced components we have produced a **VdS** approved fully compliant to **EN 54-12:2015** beam detector that out performs all other beams in the market place.

What is the advantage of 160 metres?

In this ever increasingly cost conscious world using the firebeam *Xtra* will mean you need only purchase one beam instead of two when covering distances over 100m. Not only will the cost of hardware be significantly less but also the **cost of installing** will also be significantly reduced.



The importance of low level control

Using a low level controller along with motorisation has the advantage of you being able to commission, adjust and maintain the beam from the safety and ease of ground level.

Sometimes you need to adjust or maintain your beam and they are mounted at height. The inconvenience and sheer cost of high lift equipment is an important consideration when designing and commissioning a fire system.

Low level control will save you thousands!

So how far can you go?

The new design optics mean you don't need as many reflectors as you used to.
Using **thefirebeam***Xtra* you cover greater distances and spend less money.









add the **70KIT140** kit to thefirebeam *Xtra* to cover distances between 70 and 140 metres



add the **140KIT160** kit to **thefirebeam** *Xtra* to cover distances between 140 and 160 metres

A low level controller means you can do everything from the safety of ground level. When using the fire beam *Xtra* you simply know what's going on.

An easy to follow menu system is so important to a successful installation.

The firebeams Xtra system has evolved with the end user in mind, movement is measured in degrees and settings in understandable percentages - "what you see is what you get" - no guess work no meaningless numbers. No two environments are the same so the importance of easily being able to make and understand adjustments is imperative and so easily done with the firebeam. To illustrate this let's quickly run through the menu systems here and see exactly how versatile and easy to use the firebeam is.

thefirebeam Xtra menu system

Commissioning Menu

From here you will perform all the actions required to commission the beam.



Mode Change Menu

From here you can make all the fine tuning adjustments to your **firebeam**.

Threshold Threshold Here you can increase or decrease the beams sensitivity. This sensitivity can be adjusted anywhere between 25% (sensitive) to 50% (less sensitive).

Time to fire Here you can adjust how long the beam has to be in fire before the fire relay is triggered. This is factory set at 10s, you may want to increase this if there is something that may momentarily obscure the beam path (birds / forklift truck) this can be adjusted between 2 and 30 seconds.

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Time + Fault 10s Time to fault Here we can adjust the time to fault between 2 and 60 seconds. For a beam to go into fault the beam path must be totally blocked within ONE second.

Auto reset The beam is factory set to auto reset when the received signal raises above the fire threshold. This can be set to latching if required.

Alarm Latching

Align on / off You may want to turn the auto alignment function off, for example, in an environment that often gets filled with welding smoke, the auto align function kicks in when the received signal drops below 90%, the point that the beam automatically checks for building movement. The beam will try to align through the smoke which could be a problem if it is unable to see the edges of the reflector.

Align time This is factory set to 4hrs, you can adjust this between 0 to 12 hours depending on your environment.

Green Flash ON Green flashing light on / off You can turn the green flashing LED on the head and controller on or off here. This is a useful way of identifying the beam head that you are working with.

Phase When using multiple beams that face each other the beam output signals could phase together and can cause unreliable readings, by setting each beam to phase differently alleviates this problem. Give each beam a different phase pattern (length between output beam sample times) you can choose anywhere between 0 (default setting) and 6.

Hysteresis Changing the hysteresis will change the delay in returning from a fire state back to a normal state, for example, the beam is factory set at 15% so if the beam falls into fire at 65% (35% threshold) it has to recover 15% to 80% before it returns to normal. This action prevents small fluctuations in returned signal causing the beam to fall in and out of a fire state. This can be adjusted between 0% and 40%.

Comp fire — fault When dirt compensation has reached its maximum you can choose whether the beam signals fault or fire, this is factory set to fault.

Beam Maintenance Menu

Dirt Comp This screen shows how much the beam has compensated for dust build up on the beam head and reflectors, ALWAYS take a note of this value as part of your routine maintenance to see any build up pattern, if you see figures above +50% you should clean both the lens face and the reflectors (once cleaned you should instigate an auto alignment to re-calibrate the beams settings) You may see a negative number here, this can happen when the firebeam has been commissioned in a 'dirty' atmosphere such as builders dust which, once cleared, the beam then compensates for.

Fault Events Since the beam was commissioned or since the events log was last cleared.

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Self test Press enter enter to perform a fire test, this works by running a test algorithm to lower the output power, the receiver sees this as obscuration. When the received signal drops below the threshold point the beam will trip the fire relay — this relay will not trip until the time to fire has passed which could be anything between 2 to 30 seconds.

Air Quality 97% Test *** FIRE ***

On / off This enables the beam to be turned on and off using the right and left keys should there be something needing to be maintained in the beam path, this will show as a fault on the panel.



Diagnostics Menu

Ric Quality 180% IR power This screen shows the amount of output power that is being transmitted. It can be increased or decreased here.

Air Quality 100% RxSense 5.0%

RX sensitivity This screen shows the receiver sensitivity and can be changed here.

Temperature +22C TC + 0 G1 128

Temperature Here we can see the temperature at the beam head and the amount of compensation being made for temperature (no adjustments can be made here).



"Some things just look and feel right, you know even before using it, it will work and work well! The sheer quantity of workmanship, materials used and pure ease of use with technician friendly qualities all make this by far the best beam available"

"now selling in 62 countries, thefirebeam is protecting lives and property in thousands of locations around the globe"

using thefirebeam Xtra will save 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 25 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 3.5mA any state opens up a whole world of options. In some cases you can loop power the beam, for instance using an Apollo xp95 mini switch monitor allows you do just that and turns the conventional firebeam into an addressable unit.



Easy clean lenses the firebeam has been designed to be easily cleaned with its flat surfaces. Unlike other beams all the moving optics are safely encased inside the waterproof enclosure and you are not going to knock the beam out of alignment. This means thefirebeam can easily be cleaned from ground level using something like a no-climb pole and suitable attachment.





VDS and CPD approval means the fire beam is fully approved and quality audited.







Awards.....

Winner of the International fire industry award for product innovation





winner
of the fire
Industry award
for innovation

product innovation award sponsored by the



The range...

The firebeam Xtra

Use the **firebeam***Xtra* for distances over 7 metres and up to 70 metres.

Comes complete with head, low level controller, single reflector, user manual and 3mm allen key.



Use this for distances over 70 metres and up to 140 metres (simply add the single reflector from the standard firebeam).



140 KIT 160

Use this for distances over 140 metres and up to a maximum of 160 metres (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.



Multi-functional, adjustable bracket

A very high quality aluminium fully adjustable bracket that can accommodate both the beam head and the reflector / reflector kits. Includes integrated spirit level.



Power supply

Specially designed to be used with **thefirebeam** these 24v 1.5amp power supplies have full VdS Approval to EN54-4. this supply also suits any other fire or security device requiring a dedicated power supply.





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 the firebeam means years of trouble free service that can be relied upon.