



## **USER GUIDE**

### **FIREbeam Xtra Reflective Optical Beam Smoke Detector**

## Contents

<b>Distance and Position Guidelines .....</b>	<b>3</b>
Distance .....	3
7 to 70 metres - the standard FIREbeam Xtra .....	3
70 to 140 metres - The Standard FIREbeam Xtra + Mid-Range 70 to 140m Kit.....	3
140 to 160 metres - The Standard FIREbeam Xtra + Long-Range 140 to 160m Kit.....	3
Position.....	4
<b>Installing, Commissioning and Testing .....</b>	<b>5</b>
Step 1 - Mounting the Head .....	5
<b>Step 2 – Mounting the Controller .....</b>	<b>6</b>
Wiring Configuration.....	7
<b>Step 3 – Programming the Analogue Address.....</b>	<b>7</b>
<b>Step 4 - Commissioning .....</b>	<b>8</b>
Stage One - Language and Commissioning Speed .....	8
Stage Two - Pre-alignment.....	9
Stage Three – Manual Alignment.....	11
Stage Four - Auto-Alignment.....	12
<b>Step 5 - Testing .....</b>	<b>13</b>
<b>Screen and Menu Systems .....</b>	<b>14</b>
Home Screen .....	14
How to Use the Menu System.....	15
Individual Menu Items .....	15
<b>Technical Specifications .....</b>	<b>21</b>

## Distance and Position Guidelines

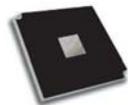
These guidelines are recommendations only and it is important that you refer to your appropriate governing standards at all times.

When positioning your FIREbeam Xtra there are important factors that you should consider, mainly what distance you are covering and the optimal position in the building.

### Distance

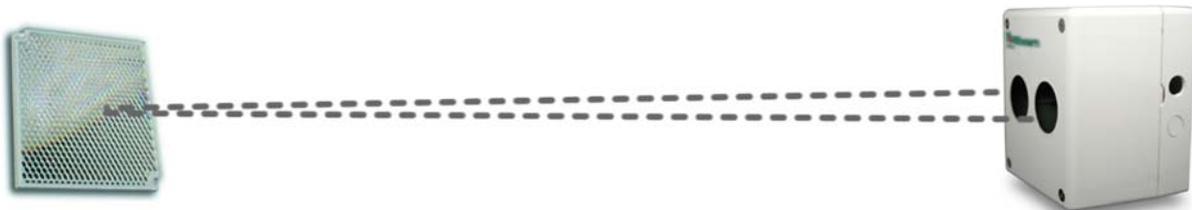
The standard FIREbeam Xtra is suitable for distances of 7m to 70m to the reflector. If you require 70m to 140m you will need to use the mid-range reflector extension kit. For ranges of 140m to 160m you will require the long-range reflector extension kit.

**Note:** for distances under 20m, fit the short-range mask (supplied) to the single reflector.



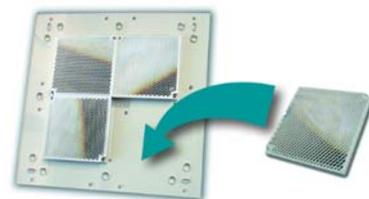
### 7 to 70 metres - the standard FIREbeam Xtra

The standard FIREbeam Xtra comes boxed with the head unit, low level controller, one reflector, short-range mask, 3mm Allen key and quick start installation guide, this should be used for distances over 7m and up to 70m.



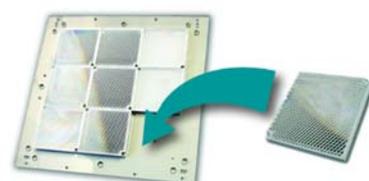
### 70 to 140 metres - The Standard FIREbeam Xtra + Mid-Range 70 to 140m Kit

For distances of 70 to 140 metres you will need to use the standard FIREbeam Xtra and a **mid-range extension kit** (the mid-range kit comes with a backing plate and 3 extra reflectors, you will need to add the reflector from the standard kit to the mid-range kit with the screws provided).



### 140 to 160 metres - The Standard FIREbeam Xtra + Long-Range 140 to 160m Kit

For distances of 140 to 160 metres you will need to use the standard FIREbeam Xtra and a **long-range extension kit** (the long-range kit comes with a backing plate and 8 extra reflectors, you will need to add the reflector from the standard kit to the long-range kit with the screws provided).

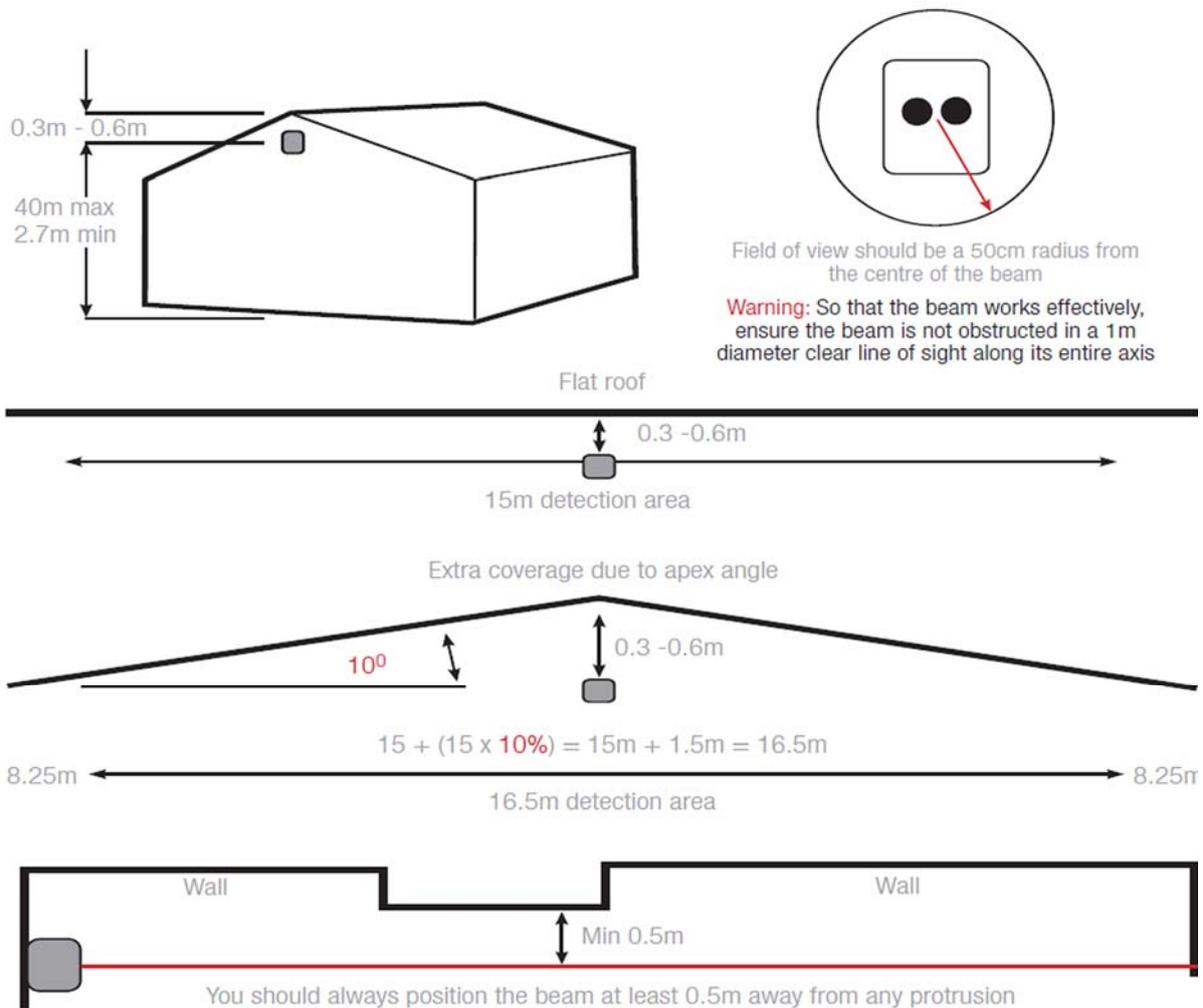


## Position

A roof is considered flat unless the height of the apex is greater than 0.6m. If the roof is flat the FIREbeam Xtra system can be placed anywhere under the roof between 0.3m and 0.6m below the roof, up to a maximum height of 40m from the floor.

The FIREbeam Xtra has a detection area of 7.5m either side of the beam. If the roof is considered to have an apex, place the FIREbeam Xtra system 0.3m to 0.6m down from the top of the apex, up to a maximum height of 40m from the floor.

The maximum protected area either side of the beam can be extended by 1% for every degree of roof pitch, see the example below (please check with your local regulations):



NOTE: Careful design consideration should be made when positioning beams and reflectors in environments that can be susceptible to condensation i.e. warehouses near to water that have areas open to the outside environment or that are exposed to quick extreme changes in temperature. To assist with this problem that can affect all beam detectors we produce an **anti-fog kit** comprising of a specially coated reflector and lens cover. Individual reflectors are also available.



Note: The standard FIREbeam Xtra and range kits can be supplied as anti-fog sets as a special order.

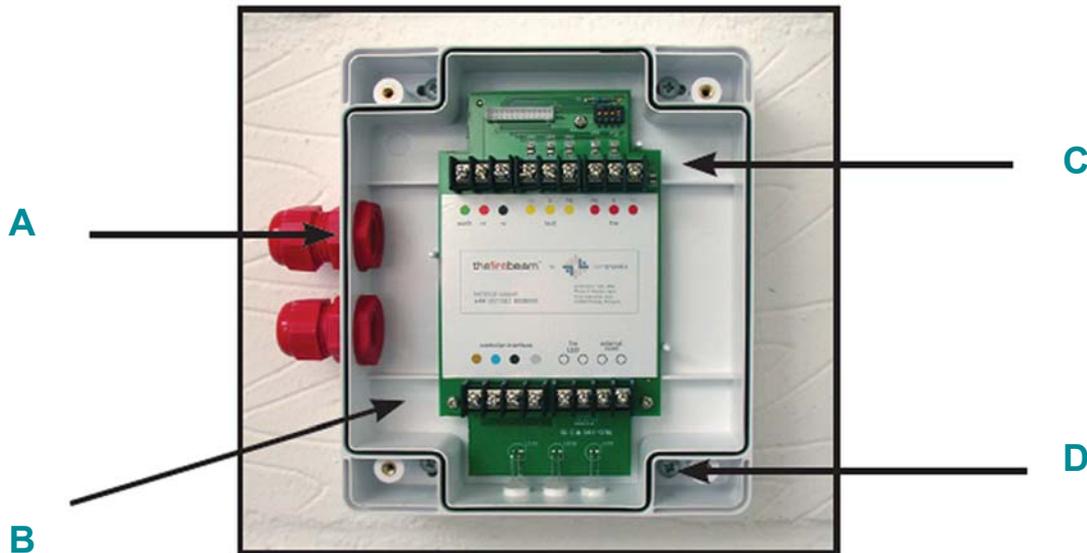
## Installing, Commissioning and Testing

### Step 1 - Mounting the Head

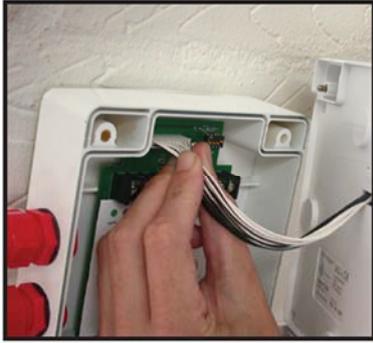
Screw the head backing plate to the wall - always try to use as sturdy a location as possible, such as brick or major structural steels (avoid mounting to outer metal cladding etc). Avoid mounting the head where direct sunlight can shine directly into the 'eyes' of the beam (care should be taken when mounting in glass atriums). Ambient sunlight will not affect the beam.

Also available - Unistrut adapter plate

Use this accessory for easy mounting to Unistrut fabrication. Holes are pre-drilled to the correct pitch of the head and conveniently positioned for use with Unistrut.



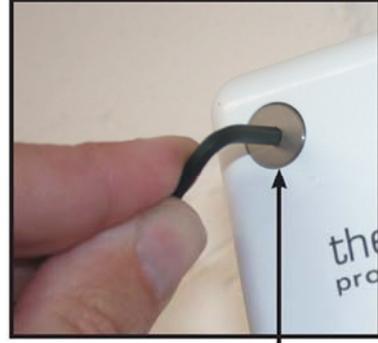
- A** 2 knock-outs are provided on both sides. Take care when using drills not to damage the circuit board. Only punch out with head open and disconnected from power.
- B** Wire to low level controller using bottom colour coded terminals.
- C** Wire into system as required (see "Wiring Configuration" on page 7). Ensure that all wiring is below the level of the front edge of the box.
- D** Screw in through holes provided outside of the rubber seal.



Connect the head to the base plate by first plugging in the connector. Do not force in, white wires should be uppermost. Should you forget to connect this the controller screen will read ERROR. To avoid damaging the detector head never dangle the front cover assembly from the ribbon cable.



**IMPORTANT** ensure the connector is this way up.



Screw the head screws down with the 3mm allen key provided.

Your wiring should be flush and not flattened by tightening down screws.

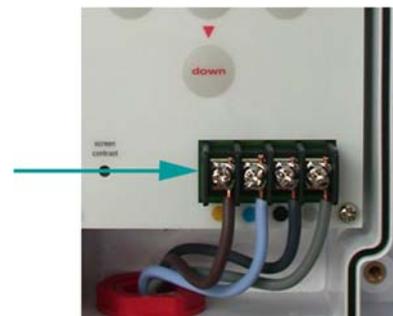
## Step 2 – Mounting the Controller

Important mount the controller at eye level and ensure easy access.



Screw in through holes provided outside of the rubber seal. Wire to head using colour coded terminals.

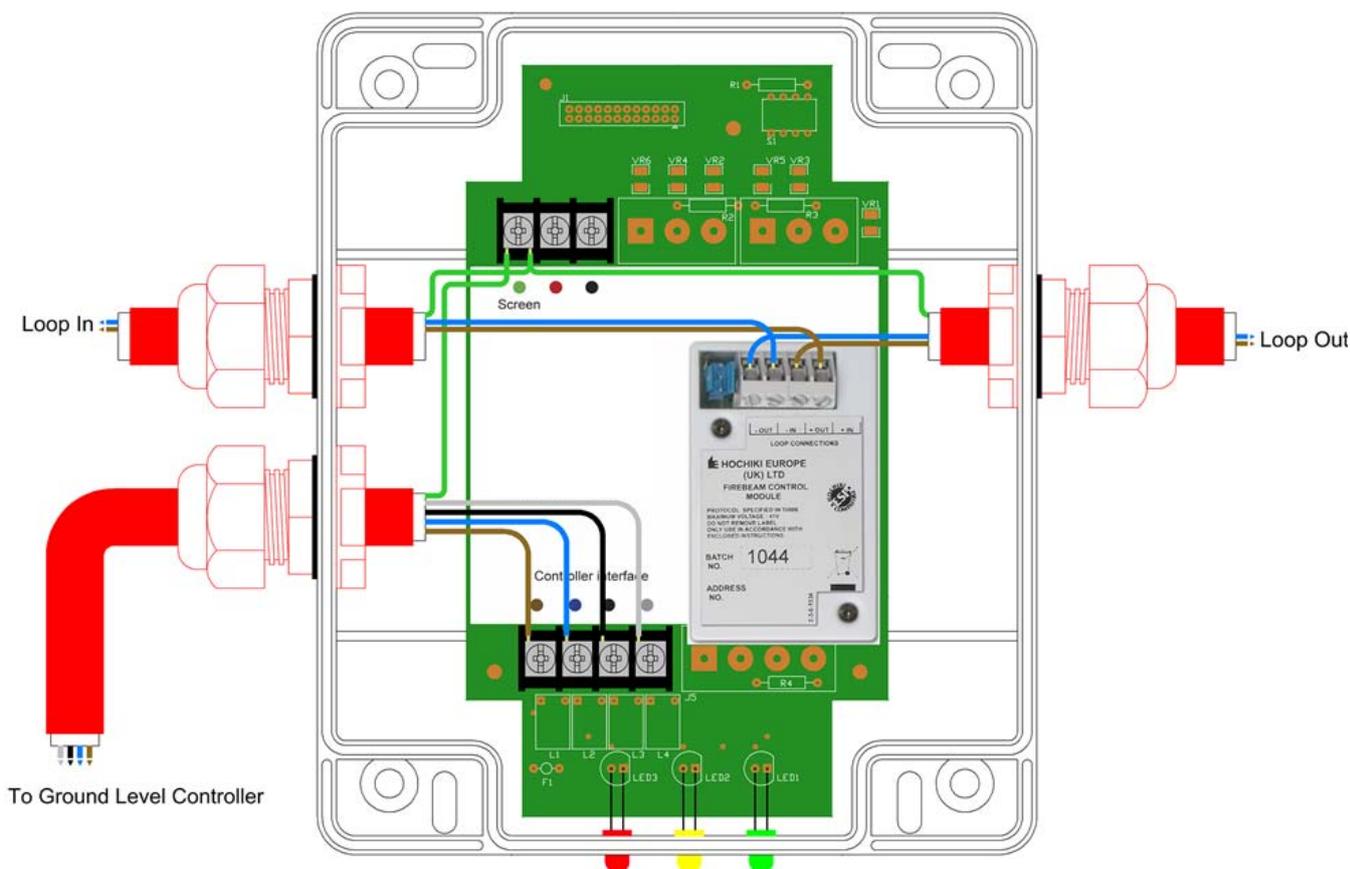
If this connection is not made, "ERROR" will appear on the controller, this connection can be checked by reading the resistance across the black and grey terminals, they will read 110 ohms if OK or 220 ohms if not connected properly.



### Wiring Configuration

The output current of the internal control module will need to be set at 22 mA. The output will also need to be programmed so that it is powered in its normal state. On a control panel reset the output will need to change state for a minimum period of 5 seconds.

**NOTE:** You should consult the relevant control panel documentation on how to program this functionality.



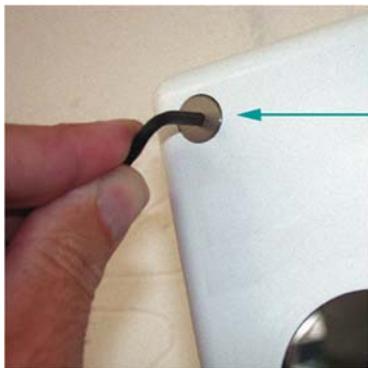
### Step 3 – Programming the Analogue Address

The FIREbeam Xtra is programmed via the integral Control Module situated on the main PCB within the head unit. To program an address, you will require a TCH-B200 Hand Held Programmer and a PL-3 Programming Lead (both provided separately).

Connect the PL-3 Programming Lead to the TCH-B200 Hand Held Programmer and then to the blue programming socket on the FIREbeam Xtra Control Module. Refer to the TCH-B200 Instructions for further details on programming addresses. The programmed address can be written on the module label in the space provided.

Once the unit is programmed connect the head to the base plate by first plugging in the connector.

Do not force in, white wires should be uppermost. Should you forget to connect this the controller screen will read ERROR.



Screw the head screws down with the 3mm Allen key provided.

Your wiring should be flush and not flattened by tightening down screws.

## Step 4 - Commissioning

Commissioning the FIREbeam Xtra is a simple procedure outlined in the following step by step explanation.

### Stage One - Language and Commissioning Speed

**IMPORTANT.** Do **NOT** put the reflector up yet. However, if you are recommissioning the FIREbeam Xtra **COVER** it with a non-reflective black cloth or similar.

You cannot commission the FIREbeam Xtra if the reflector can be seen.

Power up the unit and you will see

the Firebeam Xtra

the screen will then default to

Air Quality 0%  
Status Fault

or

Air Quality 0%  
Status Fire

Access the menu by pressing the enter button



•

The first screen you see is English. If you need to change this use the right and left-hand keys to scroll through languages, when you have found your language press enter to access the commissioning menu

**Note:** If you have changed the language the system will continue in your chosen language.

Press enter, and you will now see the commissioning speed screen. In most cases it is recommended to use fast mode (in normal mode the system uses 3.5mA, in fast mode it uses 17mA) - if you are commissioning more than one beam at a time and the system cannot support the extra draw it may be necessary to use normal mode to prevent excessive current draw.

Fast mode allows x 4 times faster motor response and it may be quicker to commission each beam in turn. Once commissioning is complete the FIREbeam Xtra will automatically revert to normal low power mode - (3.5mA).

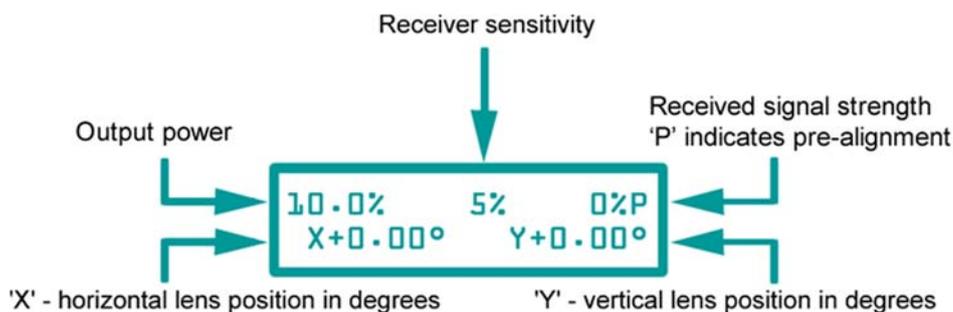


Use the left and right keys to toggle between fast and normal, the \* indicates which mode is selected. Press the enter key to continue.

## Stage Two - Pre-alignment

The next screen is pre-alignment - this is probably the most important part of setting up your beam. Pre-alignment sets up the amount of power you need for the distance you are covering and can indicate if you are receiving unwanted reflections from anything else in the beam path.

Press enter to begin pre-alignment. Remember, **no reflector**. You will see the screen below, take a moment to understand what the figures on the screen mean.



Receiver sensitivity (RX Sense) will start by raising to 100% and then the output power (IR power) will rise to 100%.

More power will be output than is necessary to cover the distance and these levels will then be reduced once the auto align process takes place. The air quality figure at this point should normally stay at 0%. Pre-Align Complete will now be indicated.

Press enter to accept Pre-Alignment and confirm these settings by pressing the right key and enter into Manual Alignment.



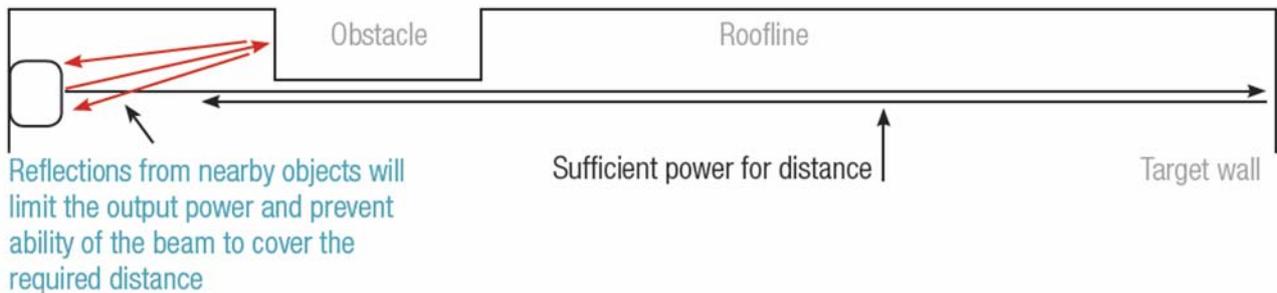
The FIREbeam Xtra is looking for the far wall of the building and in some shorter distance applications will stop raising the IR Power when it's sufficient for the distance. In these cases, you can press Enter to accept the Pre-Alignment then the right key and enter into Manual Alignment.

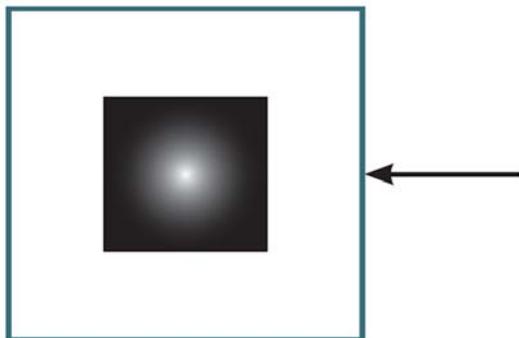


**CAUTION:** If you have not allowed the 50cm radius and the beam encounters an obstruction this will also stop raising the IR Power and halt the Pre-Alignment as the beam will assume it has found the far wall.

You will need to identify and move the obstruction or reconsider the positioning of the beam. You can identify that the beam is obstructed if the right-hand figure (Air Quality) has risen and is fluctuating between 5%-10%.

Obstructions near the head will disturb the pre-alignment process and care should be taken to ensure no solid objects are close to the beam path.





Ensure 1m of clear space along the path of the beam and 500mm from the edges of the reflector.

if the wall you are placing the reflector/s on is shiny or glass then the reflectors should be placed on a 1meter piece of non-reflective material like MDF to ensure correct operation.

### Stage Three – Manual Alignment

Once Pre-Alignment is complete you will enter Manual Alignment.

Now place or uncover the reflector.

When you install or uncover the reflector the right-hand Figure (AQ) will jump up as high as 135%, this clearly shows that the beam can see the reflector and you can press Enter to move to Auto Alignment.

Manual	AQ	125%
X+0.00°	Y+0.00°	



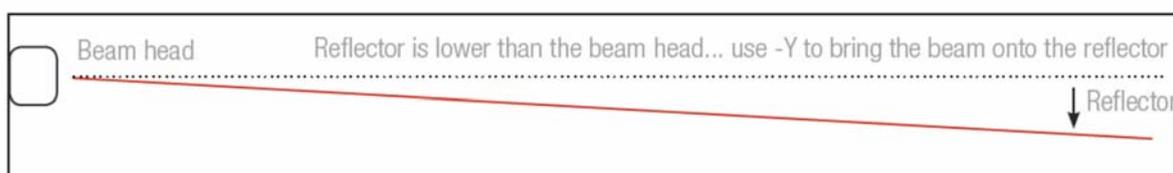
If there is a received signal of at least 80 to 100% ideally over 100%, you can move onto the next stage, Auto Alignment.

If the beam AQ does not rise significantly you will need to use the Left, Right, Up and Down keys to move the Eyes of beam onto the reflector. Once you have targeted the beam onto the reflector, the AQ will rise significantly.

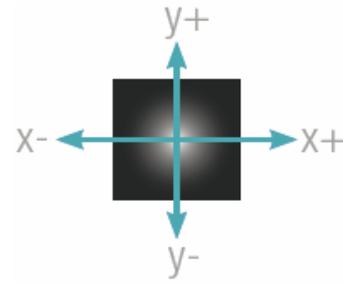
Manual	AQ	13%
X+0.00°	Y+0.00°	



In the example below, we can see that the reflector is below the eye line of the beam head, so in this case you would need to lower the angle of the beam (-Y) until you receive an AQ of over 100%.



The beam can be moved on both X and Y axis to a maximum 5 degrees using the left (x-), right (x+), up (y+) and down (y-) keys. Looking at the reflector this will move the beam across the reflector as shown:



Holding the keys down will quickly scroll through to your desired position, on release of the button the screen will revert to the actual beam position and can be seen stepping toward the requested position.

To confirm the beam is seeing the reflector, cover the reflector as this should drop the AQ and therefore prove the beam is on the reflector.

In the example above moving the y axis down (y-) results in a greater AQ

Try and achieve as high an AQ as possible, it must be at least 80 to 100% ideally above 100%. Once you have achieved this you can move onto Auto Alignment.



### Stage Four - Auto-Alignment

Having received an AQ reading of over 100% in manual mode press enter to exit manual and enter again to go into auto alignment mode.



Auto Alignment is an automatic process that will firstly reduce the RX Sense and IR Power to accommodate the best settings for beams environment.

The beam will automatically align to the centre of the Reflector, you will notice the X and Y axis moving as beam moves up, down, left and right to find the centre point.

When finished beam will state Align Complete and pressing Enter to confirm will show Air Quality 100% Status Normal.



**CAUTION:** This process should take up to 10 Minutes, if the beam does not complete after this time then look at the X and Y axis to check it has not deviated off the reflector onto an obstruction. The X and Y figures should be below 1.50 on each axis and would normally be below 0.90.

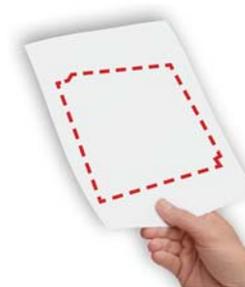
If this is not the case, you may need to start the Manual Alignment process again to return both beam axis to 0.00 and identify and remove the obstruction.

## Step 5 - Testing

The FIREbeam Xtra should now be tested for Fire and Fault.

**Note:** The beam must be tested at the reflector end and not at the beam head. This is to confirm it is looking at the reflector and completes the commissioning process.

**FAULT** - Cover the reflector within 1 second with a non-reflective card to simulate a fault such as a fork-lift truck breaking the path of the beam. After 10 Seconds the beam should register FAULT and the Amber light will flash.



**FIRE** - Cover the reflector slowly up to 70% with a non-reflective card to simulate a fire such as smoke entering the path of the beam. After 10 Seconds the beam should register FIRE and the Red light will flash.



Once you have successfully completed both tests your FIREbeam Xtra is commissioned. You can now fine tune your beam to suit the environment if needed. Look through the following menus to see adjustments that can be made.

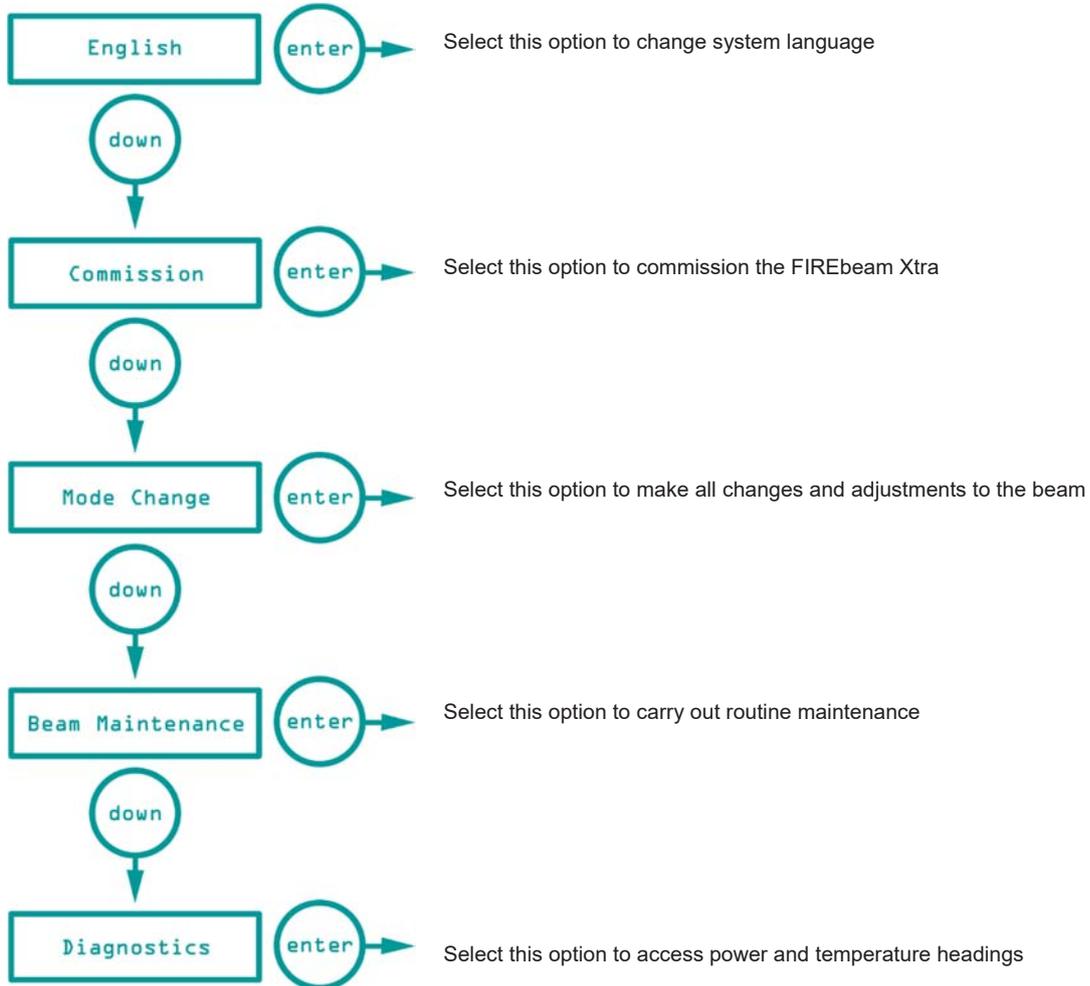
## Screen and Menu Systems

### Home Screen

NORMAL		This is the screen you would normally see when the beam is commissioned.
		The air quality level has fallen below the fire threshold setting.
FIRE		If alarm is set to latching and you need to reset from fire press enter to see this screen and press enter again to reset and return to the normal screen.  This can also be reset by dropping the power to the beam for 5 seconds. If set to auto reset, it will reset to normal automatically. See the menu system on the following pages on how to change between auto and latching if required.
FAULT		The beam path has been fully blocked within 1 second (used when fault testing in commissioning).
ERROR		No communication with the controller. This could be that the flying lead is not connected, or that the head is not connected to the controller. This can be checked by reading the resistance across the black and grey terminals, if connected it should read 110 ohms, if not connected at one end this will read 220 ohms.
ALIGN		This screen will appear when the beam is performing a self-alignment, normally because of building movement.
DIRT COMP		This is due to the compensation for dirt build up reaching its maximum - FAULT or FIRE LED may be flashing.

### How to Use the Menu System

Press enter to go into the menu system, then press down to go through the main menu options:

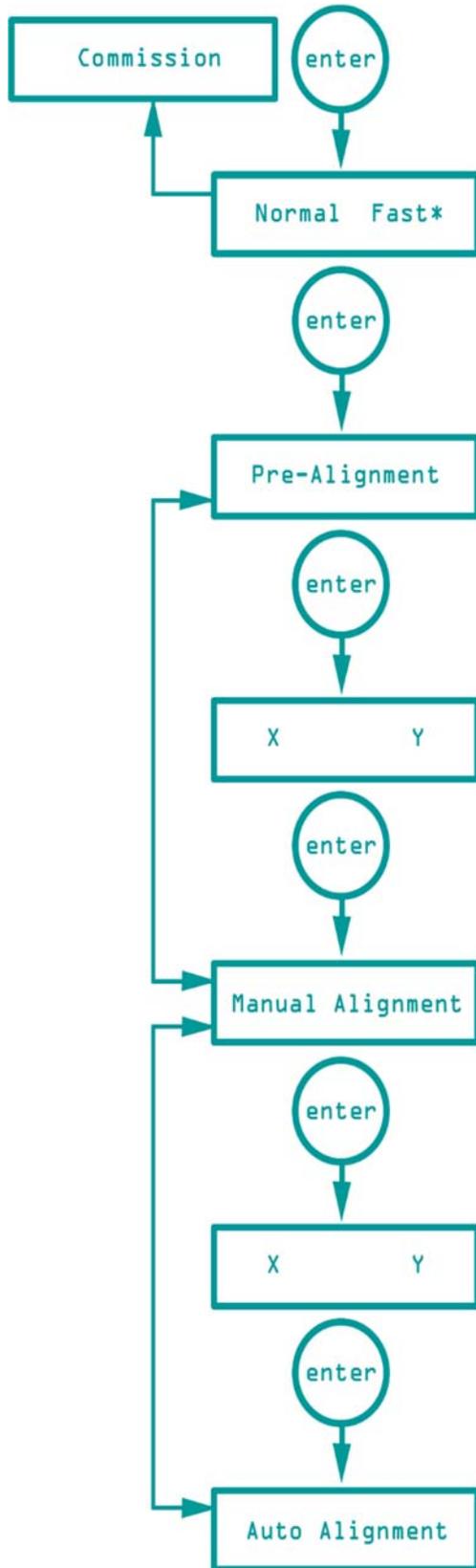


### Individual Menu Items



#### Language

The language is factory set to English as default. If this is okay press enter to continue to commissioning, or arrow up to return to the home screen. To change the language, use the right and left keys to change to your preferred language and press enter to confirm your choice – you will then continue in the language of your choice. Languages currently available are: English, Dutch, Italian, French, Spanish, Czechoslovakian and German.



## Commission

Press enter to access the 'Commissioning' menu and its sub menus.

Pressing right or left changes between normal and fast. It is recommended in most cases to use fast mode (in normal mode the system uses 3.5mA, in fast mode it uses 17mA). If you are commissioning more than one beam at a time and the system cannot support the extra draw it may be necessary to use normal mode to prevent excessive current draw. Fast mode allows four times faster motor response and it may be quicker to commission each beam in turn. Once commissioning is complete the FIREbeam Xtra will automatically revert to normal low power mode - (3.5mA).

## Pre-Alignment

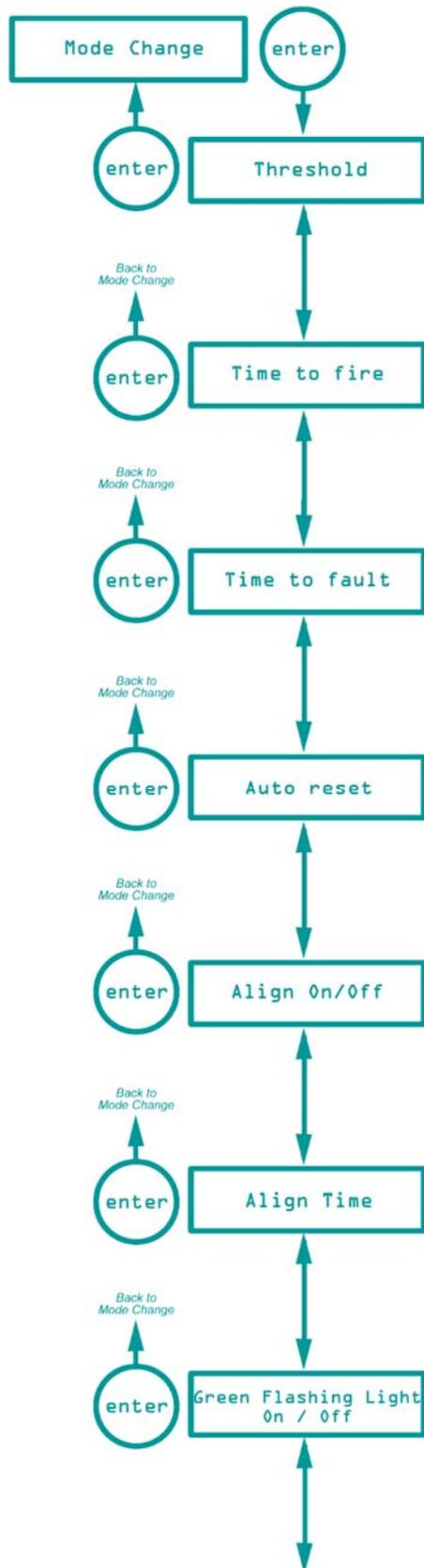
Press enter here to start pre-alignment. In pre-alignment you should **ALWAYS COVER THE REFLECTOR**. Starting at 10% power and 5% receiver sensitivity, the receiver sensitivity will automatically increase to a maximum of 100% then the output power will increase. These settings will automatically stop when a received signal strength reaches 6% - this received signal is the returned strength of the output signal without a reflector (if no return signal is received the beam will reach full power and the screen will say Pre-Align - complete). If you don't receive high enough output power and receiver sensitivity readings this will usually be because you are receiving a reflection from an object nearby - use the left, right, up and down keys to avoid the obstruction. When happy with your readings press enter and confirm by pressing the right button, this will take you to manual alignment - if you wish to abort Pre-Align press the left button.

## Manual Alignment

Press enter to go into manual alignment - **NOW THE REFLECTOR CAN BE PLACED, OR THE COVER CAN BE REMOVED**. You should see a large jump in signal strength. If no jump is seen use the X and Y keys to locate the reflector (the better the signal strength the better the beam is aligned) try to achieve a figure of around 100% or over for optimum auto alignment times. Press enter to okay this and go to auto alignment.

## Auto Alignment

Press enter to start auto-alignment. The beam will calibrate its power and search for the edges of the reflector – adjusting its power as it aligns itself onto the reflector. Once it has found all four edges twice it will then centre itself on the middle of the reflector and the screen will say align complete. Press enter to return to the home screen. If you see align aborted this means something has crossed the beam path of the received signal and the signal has dropped out. Press back / left to return to auto alignment.



## Mode Change

Here we can make changes to how the beam behaves. Press enter to go into the 'Mode Change' menu and access the sub menus.

**Threshold** - use the right and left keys to increase or decrease the beams sensitivity. It is factory set at 35% (meaning the received signal must drop by 35% to trigger the fire relay). This sensitivity can be adjusted between 25% (sensitive) and 50% (less sensitive). Press enter to return to 'Mode Change' or down to go to 'Time to Fire'.

**Time to Fire** - you can adjust how long the beam must 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 etc). This can be adjusted between 2 and 30 seconds by using the right and left keys. Press enter to return to 'Mode Change' or down to go to 'Time to Fault'.

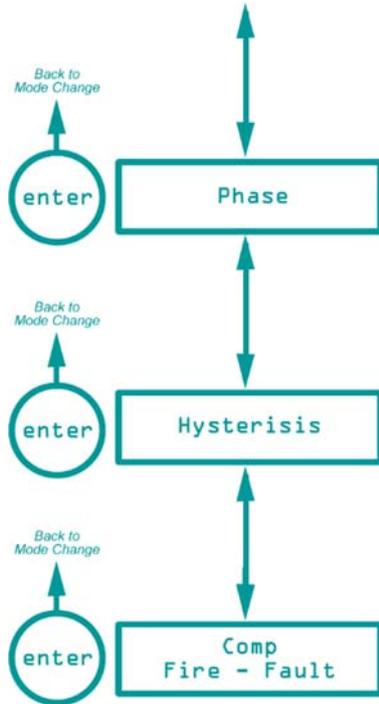
**Time to Fault** - you can adjust the time to fault between 2 and 60 seconds (factory set at 10 seconds). For a beam to go into fault the beam path must be totally blocked within ONE second. By using the right and left keys. Press enter to return to 'Mode Change' or down to go to 'Auto Reset'.

**Auto Reset** - the beam is factory set to auto reset when the received signal raises above the fire threshold hysteresis. This can be set to latching if your system requires this. Change by using the right and left keys. Press enter to return to 'Mode Change' or down to go to 'Align On/Off'.

**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. Use the right and left keys to turn off and on. When turning this function off extra care should be taken to ensure that the beam head is on a sturdy fixing, in other words, a brick wall or major structural steel. Auto alignment will still function in commissioning. Press enter to return to 'Mode Change' or down to go to 'Align Time'.

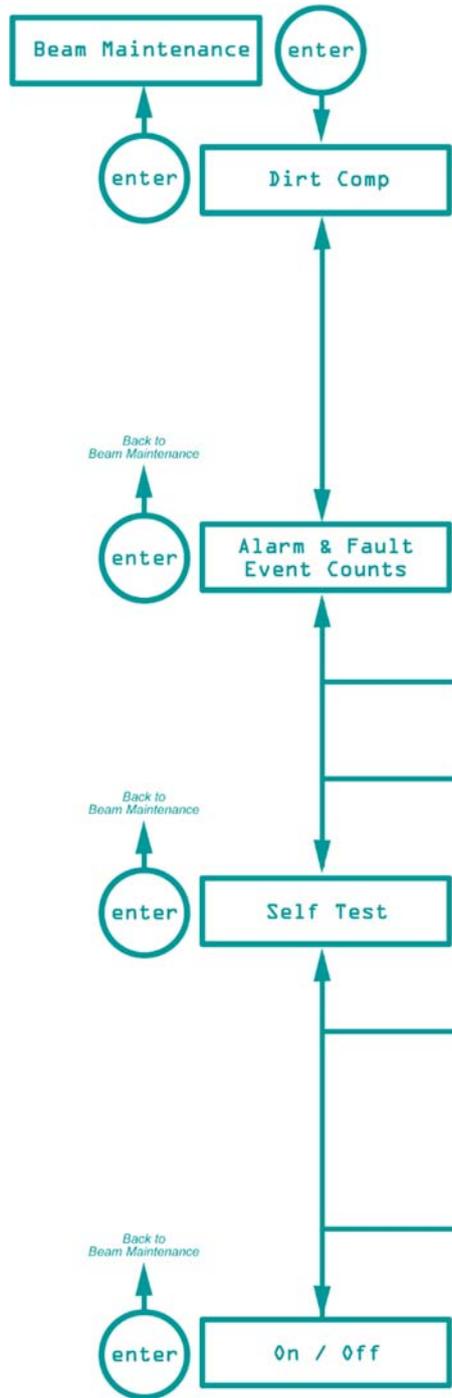
**Align Time** - this is factory set to 4hrs, you can adjust this, by using the right and left keys, between 0 to 12 hours depending on your environment. Press enter to return to 'Mode Change' or down to go to 'Green Flashing Light On/Off'.

**Green Flashing Light On/Off** - you can turn the green flashing LED, located on the head and controller, on or off using the right and left keys. This is a useful way of identifying the beam head you are working with. Press enter to return to 'Mode Change' or down to go to 'Phase'.



**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. Use the right and left keys to give each beam a different phase pattern (length between output beam sample times) you can choose between 0 (default setting) and 6. Press enter to return to 'Mode Change' or down to go to 'Hysterisis'.

**Hysterisis** - 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 must 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 1% and 40% by using the right and left keys. Press enter to return to 'Mode Change' or down to go to 'Comp Fire - Fault'.



## Beam Maintenance

Press enter to go into the 'Beam Maintenance' menu and access the sub menus.

**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).

It is possible that you may see a negative number here, this can happen when the FIREbeam Xtra has been commissioned in a 'dirty' atmosphere such as builders' dust which, once cleared, the beam then compensates for. To reset, perform an auto alignment to re-calibrate the beam. Press enter to return to 'Beam Maintenance' or down to go to 'Alarm & Fault Event Counts'.

**Alarm & Fault Event Counts** - Here we can see how many times the beam has gone into fire or fault since the beam was commissioned or since the event log was last cleared, including testing.

Press enter to clear events.

Press left / back to return to 'Beam Maintenance' or down to go to 'Self Test'.

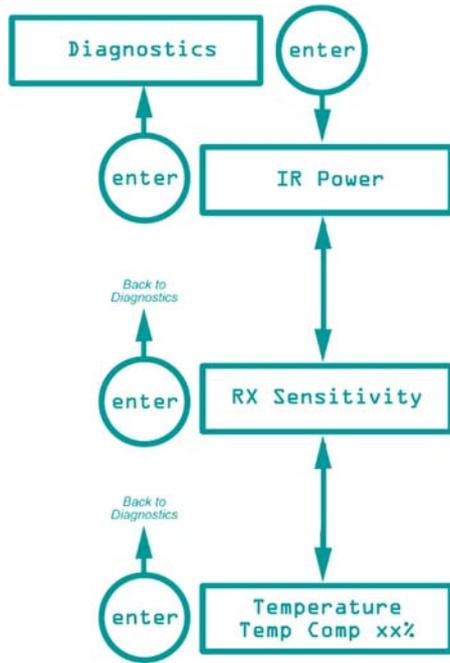
### Self Test

Press 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 and 30 seconds.

Press left / back to end test, the fire test should show on the panel. Press left / back to return to beam maintenance or down to go to 'On/Off'.

### On/Off

If something needs to be maintained in the beam path use the right and left keys to turn the system on and off. This will show as a fault on the panel. Press enter to return to 'Beam Maintenance'.



### Diagnostics

Press enter the 'Diagnostics' menu and access the sub menus.

#### IR Power

This screen shows the amount of output power that is being transmitted. It can be increased or decreased by using the right and left keys. Press enter to return to 'Diagnostics' or down to go to 'RX Sensitivity'.

#### RX Sensitivity

This screen shows the receiver sensitivity and can be changed by using the right and left keys. Press enter to return to diagnostics or down to go to 'Temperature & Gain'.

#### Temperature & Gain

Here you can see the temperature at the beam head and the amount of temperature compensation and a Gain figure (no adjustments can be made here).

Press enter to return to diagnostics.

## Technical Specifications

Electrical Specifications		
Supply Voltage	17 to 41 VDC	
Supply Current	3.5 mA (constant current) in all operational states	
Constant Current	17 mA (constant current) in fast commissioning	
Environmental Specifications		
Temperature	-10 °C to +55 °C	
Humidity	10 to 95% RH Non-condensing	
Ingress Protection Index	IP65 when suitably mounted and terminated	
Mechanical Specifications		
Beam Head	180 mmH x 155 mmW x 137 mmD, Weight 1.1Kg	
Controller	185 mmH x 120 mmW x 62 mmD, Weight 0.55g	
70KIT140 Mid-Range Reflector	293 mmH x 293 mmW x 5 mmD, Weight 0.8Kg	
140KIT160 Long Range Reflector	394 mmH x 394 mmW x 5 mmD, Weight 1.8Kg	
Adapter (mounts the Beam Head onto unistrut)	270 mmH x 250 mmW x 5 mmD, Weight 0.6g	
Optical Specifications		
Optical Wavelength	870 nm	
Maximum Angular Alignment	±5°	
Maximum Angular Misalignment	Beam Head ±0.4°, Reflector ±2° (static not auto-aligning)	
Operational Specifications		
Protection Range	FIREbeam XTRA	Standard Product 7 to 70 metres (use short range mask for distances between 7 & 20 metres)

	70KIT140	Mid-Range Reflector Kit 70 to 140 metres
	140KIT160	Long Range Reflector Kit 140 to 160 metres
Alarm Sensitivity Levels		25% (1.25 dB) to 50% (3 dB) in 1% (0.05 dB) increments (default 35% (1.87 dB))
Alarm Condition		Obscuration drops to below pre-defined sensitivity level. Time to Alarm Condition adjustable 2 to 30 seconds in 1 second increments (default 10 seconds)
Alarm Indication		Controller Status – FIRE, Controller Red Flashing LED, Head Red Flashing LED, Alarm Relay Change Over (CO) Contact Rating 2 A @ 30 VDC
Test/Reset Features		Beam test function by controller. Alarm latching/auto-reset selectable (default auto-reset). Alarm reset in latching mode by controller reset function, removing power for >5 seconds, apply >5 VDC to reset connections in Beam Head.
Fault Sensitivity Level		4%
Fault Condition		Obscuration drops to below the fault sensitivity level within 1 second Power Down or Supply Voltage < 9 VDC. Commissioning modes, Pre-Alignment and Auto Alignment. Beam turned off during Beam Maintenance. Time to Fault Condition adjustable, 2 to 60 seconds in 1 second increments (default 10 seconds)
Fault Indication		Controller Status – FAULT, Controller Yellow Flashing LED 1 Second, Head Yellow Flashing LED 1 Second, Fault Relay Change Over (CO) Contact Rating 2A @ 30 VDC
Normal Condition		Obscuration level is above the Alarm sensitivity level, Controller Status – NORMAL, Controller Green Flashing LED, Programmable on/off, Head Green Flashing LED Programmable on/off
Auto-align/Beam Contamination Compensation		Auto-align during normal operation if obscuration drops below 90% for the duration of the align time set (doesn't affect normal operating mode)  Beam Contamination Compensation 4-hour monitoring. Compensation data available at the controller

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