

REFLECTIVE BEAM DETECTOR

PRODUCT CODE: FB/540

FEATURES

- A motorised head
- Can align itself when commissioning
- Continually corrects itself against building movement
- Can be controlled and adjusted from ground level
- Comes standard with both the head unit and a low level controller

DESCRIPTION

the**fire**beam protection system includes a motorised head unit containing an infra-red transmitter and receiver, a ground level controller and prism reflector. Making use of the prism reflector the returned infrared beam is analysed for smoke contamination and registers a fire condition at a predetermined level. At ground level the controller unit is used to make operational adjustments.

*So what makes the the**fire**beam head unit so special?.....*

A MOTORISED HEAD

the**fire**beam incorporates microprocessor controlled motors that intelligently align the head at all times. When first commissioning the head accurately aligns itself, and in operation the head will re-align should there be building movement, a problem with new build settlement and environmental change. the**fire**beam's unique ability to self align means that high level re-adjustment because of this is no longer required, saving time, disruption and importantly, cost. The motorised head means greater reliability that will reduce troublesome false alarms.

VERY LOW POWER

the**fire**beam protection system uses only 3mA at all times, so in most cases can happily be loop powered for addressable panels. Compatible with most major fire panels the simplicity of this system usually means no extra power supply, meaning easier installation and a lower installation cost.

DESIGNED TO MEET LATEST APPROVALS

the**fire**beam has been designed to fully comply with EN 54 part 12. and exceeds European standards, in particular BS5839 part 1.

GENERAL SPECIFICATIONS

Housing:	White high heat abs UL94 HB	Sensitivity:	Fully adjustable between 25% & 50%
Rating:	IP 65	Operating voltage:	10.2 - 30 volts +(protocol)
Operating temp:	-15°C to 55°C	Quiescent current:	3 mA
Weight approx	head 1kg / controller 0.5kg	Alarm current:	3 mA
Dimensions (HxWxD):	180mm x 155mm x 125mm	Alarm:	Latching - non latching option
Time to fault:	Adjustable between 1s and 60s	Fault relay:	C/O 1A at 30 VDC Resistive
Time to fire:	Adjustable between 1s and 30s	Fire relay:	C/O 1A at 30 VDC Resistive



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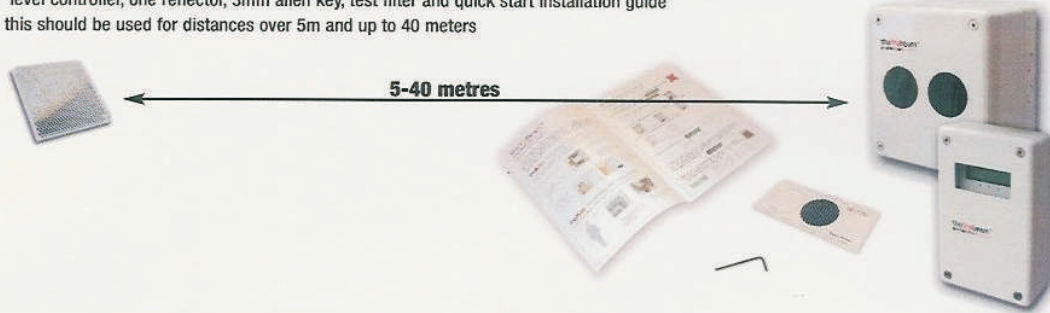
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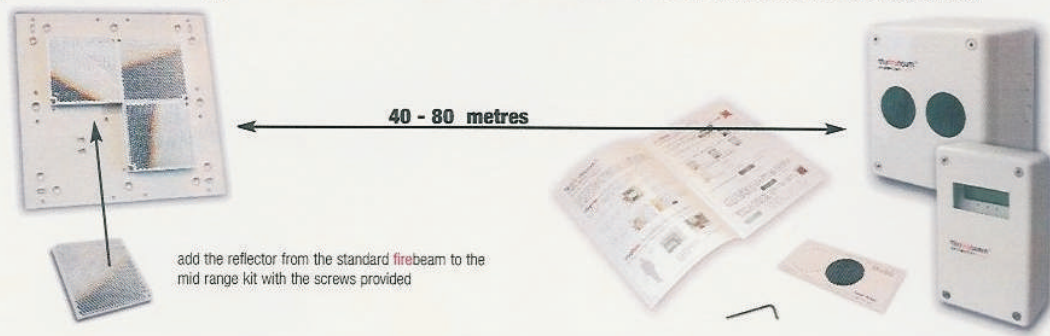
RANGE & WORKING PARAMETERS

It is necessary to use range extension kits when protecting areas over 40 metres, please see below recommended usage. The kits are designed to optimise the performance of the firebeam over such distances to prevent overpowering the unit which would result in a wide un-useable infra red beam that could receive spurious reflections from unwanted sources such as structural steels.

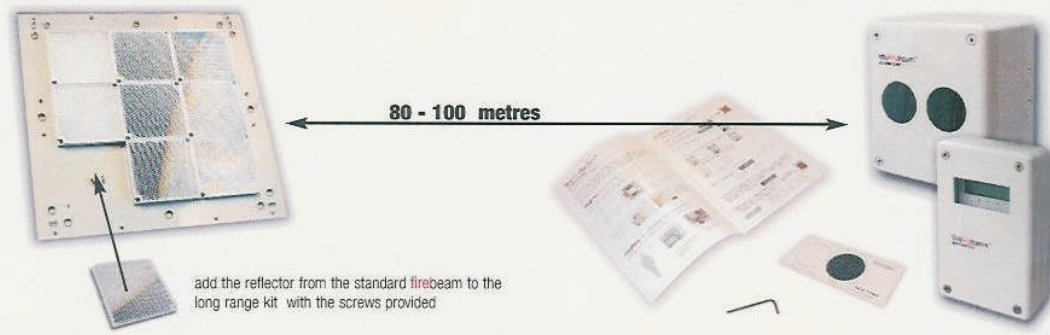
5-40 metres the standard firebeam The standard firebeam comes boxed with the head unit, low level controller, one reflector, 3mm allen key, test filter and quick start installation guide this should be used for distances over 5m and up to 40 meters



40 - 80 metres = the standard firebeam + mid range 40 to 80m kit for distances of 40 to 80 meters you will need to use the standard firebeam 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)



80 - 100 metres = the standard firebeam + long range 80 to 100m kit for distances of 80 to 100 metres you will need to use the standard firebeam 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)



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