

## Technical Specification: Xtra

A full technical specification of the Fire Beam Xtra and its associated components can be seen below, answering most of the questions you may have. The Fire Beam Xtra is a conventional beam detector.



### Electrical Specifications:

Supply Voltage	10.2 to 30 VDC
Supply Current	3.5mA (constant current) in all operational states
Constant Current	17mA (constant current) in fast commissioning

**Environmental Specifications:**

Temperature	-10°C to +55°C
Humidity	10 to 95% RH Non-condensing
Protection Index	IP65 when suitably mounted and terminated

**Mechanical Specifications:**

Beam Head	H:180mm x W:155mm x D:137mm - Weight 1.1kg
Controller	H:185mm x W:120mm x D:62mm - Weight 0.55kg
70-140 Distance Kit	H:293mm x W:293mm x D:5mm - Weight 0.8kg
140-160 Distance Kit	H:394mm x W:394mm x D:5mm - Weight 1.8kg
Unistrut Adapter	H:270mm x W:250mm x D:5mm - Weight 0.6Kg (mounts the Beam Head onto <a href="#">Unistrut</a> )

**Optical Specifications:**

Optical Wavelength	870nm
Maximum Angular Alignment	±5°

Maximum Angular Misalignment	(static not auto-aligning) Beam Head $\pm 0.75^\circ$ / Reflector $\pm 2^\circ$
<b>Operational Specifications:</b>	
<b>Protection Range</b>	
Fire Beam Xtra	As standard up to 70 metres
70-140 Distance Kit	70 to 140 metres
140-160 Distance Kit	140 to 160 metres
<b>Alarm Sensitivity Levels</b>	
25% (1.25dB) to 50% (3dB) in 1% (0.05dB) increments (default 35% (1.87dB))	
<b>Alarm Condition:</b>	
Obscuration drops to below pre-defined sensitivity level.	
Time to Alarm Condition adjustable between 2 to 30 seconds in 1 second increments (default 10 seconds)	
<b>Alarm Indication:</b>	
Controller Status - FIRE	

Controller Red Flashing LED

Head Red Flashing LED

Alarm Relay Change Over (CO) Contact

Rating 2A @ 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 12 to 24 VDC to reset connections in Beam Head.

**Fault Sensitivity Level:**

90%

**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