

# Technical Specification / The Fire Beam Xtra



A full technical specification of the Fire Beam Xtra and associated components can be seen below, answering most of the questions you may have.

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
Mid Range Kit	H:293mm x W:293mm x D:5mm - Weight 0.8kg
Long Range Kit	H:394mm x W:394mm x D:5mm - Weight 1.8kg
Unistrut Adaptor	H:270mm x W:250mm x D:5mm - Weight 0.6Kg (mounts the Beam Head onto Unistrut)
Optical Specifications:	
Optical Wavelength	870nm
Maximum Angular Alignment	±5°
Maximum Angular Misalignment	(static not auto-aligning) Beam Head ±0.75° / Reflector ±2°
Operational Specifications:	
Protection Range	
Fire Beam Xtra	As standard up to 70 metres
Mid Range Kit	70 to 140 metres
Long Range Kit	140 to 160 metres
Alarm Sensitivity Levels	
25% (1.25dB) to 50% (3dB) in 1% (0.05dB) increments (default 35% (1.87dB))	
Alarm Condition:	
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)	
Alarm Indication:	
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	