

FIREBEAM BLUE

Addressable Loop Powered
Self Aligning Beam Detector



Overview

The new FIREBEAM BLUE uses the same advanced technology as its predecessor, the FIREBEAM Xtra. It inherits the same reliability, benefits and an unbeatable range of 160 metres, but it is commissioned and controlled using an App.

Beam detectors are ideal for use in large open spaces like warehouses. The ease of installation and subsequent access for maintenance makes this the go to technology for these projects. The detector projects an invisible IR beam from its transmitter to a reflector located at the opposite end. The reflected light is projected onto the receiver of the unit where it is analyzed. When this beam is obscured by smoke the detector triggers into alarm.

The detector is programmed from ground level, via Bluetooth, using a smartphone App. It's low current consumption enables seamless integration with ZYTEQfire's range of addressable panels. Up to 6 beam detectors may be powered by the addressable system (subject to loop load calculations). A conventional unit is also available.

Certified in Europe to the harmonized EN54-12 : 2015 standard.

Features

- Uses the latest self-aligning, motorized beam technology
- Up to 6 beams per loop (subject to loop load calculations)
- Commission and control of beam from ground level using Bluetooth App
- No controller required – reduced cabling.
- Standard range of 70 m can be extended to 140 m and 160 m
- Anti-fog windows are available for both detector and reflector
- Conventional variant is available
- Rated IP65 when suitably mounted and terminated

Technical Specifications

Feature Description	Specification
Power Supply	
Supply Voltage	12 to 30 V DC normal
Supply Current	5.5 mA in all operational states
Supply Current	13.5 mA in fast commissioning
Optical	
Optical Wavelength	870 nm
Max. Angular Alignment	±5°
Max. Angular Misalignment	Beam Head ±0.4° (static not auto-aligning) Reflector ±2°
Operational	
Protection Range	Fire Beam BLUE: 7 to 70 m Standard Product. Use short range mask for distances between 7 & 20 m Mid-Range Reflector: 70 to 140 m Long Range Reflector: 140 to 160 m
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 sec)
Alarm Indication	App Status - FIRE Head Red Flashing LED Alarm Relay Change Over (CO) Contact Rating 2A @ 30 V DC
Test / Reset Features	Beam test function with App Alarm latching / auto-reset selectable (default auto-reset) Alarm reset in latching mode with App reset function, removing power for >5 seconds or momentarily apply >5 V DC to reset connections in Beam Head
Fault Sensitivity Level	<4%
Fault Condition	Obscuration drops to below the fault sensitivity level within 1 sec Power Down or Supply Voltage < 9 V DC

Feature Description	Specification
Operational	
Fault Condition	Commissioning modes, Pre-Alignment and Auto-Alignment Beam turned off during Beam Maintenance Time to Fault Condition adjustable, 2 to 60 sec in 1 sec increments (default 10 sec)
Fault Indication	App Status - FAULT 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 App Status - NORMAL 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 in the App
Physical	
Beam Head	180 (H) x 155 (W) x 137 (D) mm Weight 1.1kg
Mid-Range Reflector	293 (H) x 293 (W) x 5 (D) mm Weight 0.8kg
Long-Range Reflector	394 (H) x 394 (W) x 5 (D) mm Weight 1.8kg
Unistrut Adapter	270 (H) x 250 (W) x 5 (D) mm Weight 0.6Kg
Environmental	
Temperature	-10°C to +55°C
Humidity	10 to 95% RH Non-condensing
Protection Index	IP65 when suitably mounted and terminated

Ordering Information

Order Code	Part No.	Description
FIREBEAM BLUE ADD	FIREBEAM BLUE ADD	Addressable FireBeam Blue Self Aligning Beam Detector
FIREBEAM BLUE CONV	FIREBEAM BLUE CONV	Conventional FireBeam Blue Self Aligning Beam Detector
70KIT140	70KIT140	Range Extension Kit 70 - 140 M
140KIT160	140KIT160	Range Extension Kit 70 - 160 M
FB-BRACKET	FB-BRACKET	Adjustable Wall Bracket

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