

Zeta Beam Xtra Motorised Reflective Optical Beam Smoke Detector

(ZT-BEAM/XTRA, ZT-BEAM/KIT140, ZT-BEAM/KIT160)



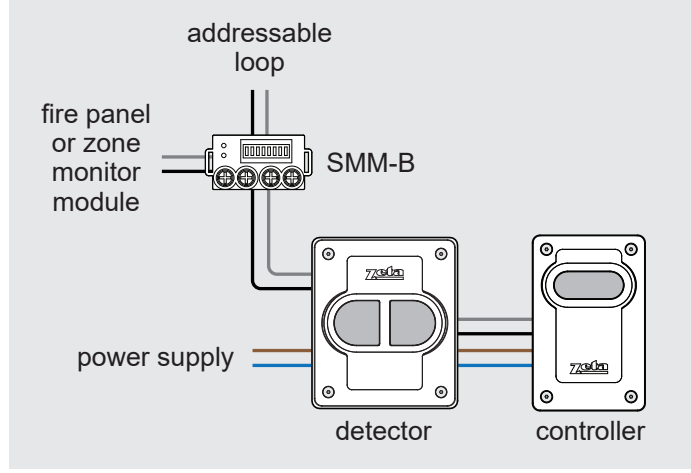
ZT-BEAM/XTRA

Description

Developed to overcome the problems of old outdated technology in beam detection, this motorised beam now means that beam detection can be used reliably to produce cost effective solutions for protecting large open areas.

Building movement and accessibility have in the past, made beam detection unreliable, difficult, time consuming to commission and hard to maintain, but now by using the advanced motorised technology of the Zeta Beam Xtra unreliability is no longer a problem. The ZT-BEAM/XTRA will self align itself to the centre of the reflector when commissioning and will automatically keep alignment with the reflector when building movement occurs. This intelligent motorisation will mean less false alarms therefore saving time, resources, reputations and ultimately money.

Connection Diagram



Features

- Motorised head unit
- Controller unit (mounted at low level)
- Designed to comply with EN54 part 12
- Compatible with most major fire panels
- Very low power consumption
- Uses only 3mA at all times
- Vds Approved

Order Information

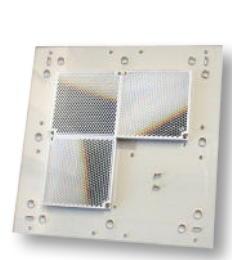
For 70m Beam	ZT-BEAM/XTRA
For 140m Beam	ZT-BEAM + KIT/140
For 160m Beam	ZT-BEAM + KIT/160
For Zone Monitor Module	ZAZM-MI

Additional System Components

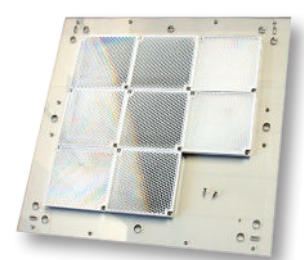
- ZT-BEAM/KIT140 Mid range kit for distances between 70 and 140 metres.
- ZT-BEAM/KIT160 Long range kit for distances between 140 and 160 metres.

Special Mini Module (SMM-B)

This module (part no. 48-128) allows the Zeta Beam - auto aligning beam detector to be connected to an addressable loop (Max 16 per loop)



ZT-BEAM/KIT140



ZT-BEAM/KIT160

Model	ZT-BEAM/XTRA	ZT-BEAM/KIT140	ZT-BEAM/KIT160
Supply Voltage	10.. to 30 VDC		
Supply Current	3.5mA (constant current) in all operational states		
Constant Current	17mA (constant current) in fast commissioning		
Temperature	-10°C to +55°C		
Humidity	10 to 95% RH Non-condensing		
Protection Index	IP65 when suitably mounted and terminated		
Dimensions	Head: (H) 180mm (W) 155mm (D) 137mm	Controller: (H) 185mm (W) 120mm (D) 62mm	(H) 293mm x (W) 293mm x (D) 5mm
Weight	1.1kg	0.55kg	0.8kg
Optical Wavelength	870nm		
Maximum Angular Alignment	±5°		
Maximum Angular Misalignment (static not auto-aligning)	(Static not auto-aligning) Beam Head ±0.75° Reflector ±2°		
Protection Range	7 - 70 metres	70 - 140 metres	140 - 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 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 effect normal operating mode) Beam Contamination Compensation 4 hour monitoring. Compensation data available at the controller		