

S-C5001**Alpha 5000 Auto Align Beam Detector****Description**

The Alpha 5000 System is an auto-aligning, self-correcting infrared beam smoke detector. Up to 2 detector heads can report to a single ground level controller. In addition, each system controller houses two pairs of fire and trouble relays, one per detector. Once the detector head is installed, using the easyfit mounting system an integral LASER can be activated. This allows the reflective prism to be located quickly and with confidence.

The Auto-Align function ensures proper alignment and maximum signal during the beam installation. Auto Optimise automatically steers and maintains the beam in the optimum position for reliable performance. The signal generated in the transmitter element and reflected by the prism back to the receiver element is analyzed for the presence of smoke. The internal microprocessor determines an alarm condition when a predetermined level obscuration is reached.

Standard Features

- Up to 2 Detector Heads reporting to One Ground Level Controller.
- Built in Laser assisted prism mounting.
- Auto-Alignment 2 to 4 minutes per head.
- Auto Optimise: Auto-Correction due to building shift.
- Built-in electronic UL/ULC obscuration-acceptance fire test.
- Contamination compensation.
- Separate Trouble and Alarm relays for each of the 2 channels.
- Password protected settings.
- Programmable alarm thresholds: 10% - 60% in 1% increments.
- Programmable Fault and Alarm delay: 2-30 Seconds.

Technical Data

Primary Input Power	14 to 36 V DC
Standby Current (depending on number of detector heads)	Low Current : 5 mA to 8.5 mA @ 24 V DC High Current : 37 mA @ 24 V DC
Alarm Current	5 mA to 8.5 mA @ 24 V DC Depending On Number Of Detector Heads Used
Relay Contacts	1 A @ 30 V DC Resistive
Reset Time	5 Seconds Maximum
Start Up Time	45 Seconds
Optical Wavelength	850 nm
Temperature Rating UL Listed	0°C to 38°C
IP Rating	IP54
Dimension (W x H x L) & Weight	
Head	134 mm x 134 mm x 131 mm, 1470 g
Controller	202 mm x 87 mm x 230 mm, 1470 g
Prism	100 mm x 9.5 mm x 105 mm

Ordering Information

S-C5001	Reflective Auto Align Beam Smoke Detector 8 m to 100 m (1 detector head, 1 controller and 1 prism)
S-C5002	Auto-aligning Optical Beam Smoke Detector 8-50 Range (1x TX/RX head, 1x system control unit & 1 prism)
S-C5003	Additional Detector Head TX/RX 100 m With 4 Prism
S-C5004	Additional Detector Head TX/RX 50 m With 1 Prism

Note: Specifications are subject to change without notice

