

S-C5001

**Alpha 5000 Auto Align Beam Detector**



**Description**

The Alpha 5000 System is an auto-aligning, self-correcting infrared beam smoke detector. Upto 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**

- Upto 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**

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

**Ordering Information**

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

Note: Specifications are subject to change without notice