

## S-C3001



## Alpha 3000 End to End Beam Detector

### Description

The SHIELD Alpha 3000 End to End infrared Optical Beam Smoke Detector (OBSD) has been designed using the latest optical technology, incorporating modern industrial, electronic and software techniques. This detector offers cost effective protection of large, open area spaces with high ceilings. It is also very suited to applications where access to ceiling mounted smoke detectors presents practical difficulties.

The SHIELD Alpha 3000 is ideal for applications where line of sight for the IR (infrared) detection path is narrow and where the building structure uses reflective surfaces. It has also been designed to be aesthetically pleasing and thus can equally suit modern architectural buildings as well as historical sites, particularly where ornate ceilings exist.

### Standard Features

- Separate Transmitter and Receiver Heads.
- Range 5 m to 120 m, configurable per set of Detectors.
- Lateral Spacing per NFPA 72 is 18 m.
- Integral Laser Alignment in Receiver.
- 2-wire Interface between Controller and Receiver.
- Single and Twin Channel capability.
- Separate Fire and Fault Relays per Detector.
- Low Level Controller with LCD display.
- Programmable Sensitivity and Fire Threshold.
- Automatic Gain Control (AGC) for drift compensation.
- Built-in electronic UL/ULC obscuration-acceptance fire test.
- Knockouts for ease of installation and wiring .
- Optional Transmitter powering from Controller.

### Technical Data

Operating Range	5 - 120 m
Operating Voltage Range	12 to 36 V DC
Operating Controller Current (with 1 or 2 receivers)	14 mA (constant)
Operating Transmitter Current	8 mA (per transmitter)
Power Down Reset Time	>20 Seconds
Fire and Fault Relay Contacts	Resistive VFCO 2A @ 30 V DC
Operating Temp. (non-condensing)	-20°C to +55°C
Optical Wavelength	850 nm
IP Rating	IP54
Relative Humidity (non-condensing)	93%
Dimension (W x H x L) & Weight	
Control Unit	203 mm x 124 mm x 71 mm, 600 g
Transmitter & Receiver	78 mm x 77 mm x 161 mm, 200 g

### Ordering Information

<b>S-C3001</b>	End To End Beam Detector Includes 1 x Transmitter, 1 x Receiver & 1 x Sytem Control Unit
<b>S-C3002</b>	Additional Detector Pack (set of transmitter and receiver heads)
<b>S-C3003</b>	Alpha 3000 Adjustment Bracket
<b>S-C3004</b>	Alpha 3000 Surface Mount Adaptor

Note: Specifications are subject to change without notice