

FSL-751AUS

Very Intelligent Early Warning (VIEW®) Laser Smoke Detector



Intelligent/Addressable Devices

General

The Notifier FSL-751 VIEW® Laser Detector provides a revolutionary advance in early warning smoke detection technology. The unique design of this detector, combined with enhanced intelligent sensing algorithms in the Notifier AFP-2800 control panels, allows smoke detection sensitivity that is up to 50 times higher than present photoelectric technology. Because of this high sensitivity, the FSL-751 can provide very early warning of slow smoldering fires. Its performance is comparable to present aspiration technology, at a substantially lower installed cost.

The FSL-751 uses an extremely bright laser diode, combined with special lens and mirror optics (U.S. patent pending), to achieve a signal-to-noise ratio that is much higher than traditional photoelectric sensors. In addition, the tightly focused light beam, combined with the intelligent sensing algorithms, allow the system to differentiate between dust and smoke particles. Because of this differentiation, the FSL-751 can be set to extremely high sensitivity, yet can reject false signals caused by larger airborne particles such as dust, lint, and small insects .

The FSL-751 is an intelligent (analog/addressable) detector. Using CLIP mode, up to 99 FSL-751 detectors may be installed per loop. On FlashScan® systems (AFP-2800), up to 159 addresses are available. The FSL-751 may be mixed in any combination with other Notifier intelligent sensors on the same loop and is quickly installed using the panel autoprogram feature. The FSL-751 provides dual bi-color



LEDs, which blink green in normal operation and illuminate steady red in alarm.

FlashScan® is a communication protocol developed by Notifier Engineering that greatly enhances the speed of communication between analogue intelligent devices. Intelligent devices communicate in a grouped fashion. If one of the devices within the group has new information, the panel CPU stops the group poll and concentrates on single points. The net effect is response speed greater than five times that of other designs.

Using the enhanced intelligent sensing algorithms, the VIEW system provides drift compensation, maintenance alert (3 levels), selection of 9 alarm levels and 9 pre-alarm levels and report of drift compensation used and recent peak values. The system includes a self-learn sensitivity adjustment to set the prealarm level just above the peak levels sensed over long periods of time for each detector's actual environment. The system includes multi-detector algorithms that permit one sensor to consider readings from adjacent sensors to provide faster detection of fires.

Features

- Advanced laser light source and patented optical design.
- Sleek low-profile housing (42.164 mm height).
- Notifier Analogue Addressable communications protocol provides extremely reliable operation proven in millions of worldwide detector installations.
- Sensitivity: 9 levels from 0.07% to 6.56% obs/m.
- Rotary DECADE address switches. Set 01 – 99 on CLIP protocol systems and 01 – 159 on FlashScan® systems.
- Dual bi-color (red/green) LEDs flash green when Normal and are steady red in Alarm.
- Dual LED design provides 360° viewing angle.
- Built-in magnetic test switch, or automatic test commanded from panel.
- Optional relay, isolator, or sounder bases.

Approvals

CSIRO ActivFire listed to AS 1603.7 - 1996 (afp-1502)

Specifications

Operating voltage range:	15 to 28 VDC
Maximum standby current:	230 μ A @ 24 VDC (no communication)
Maximum average standby current:	255 μ A @ 24 VDC (one communication every 5 seconds with LED blink enabled)
Maximum alarm current:	6.5 mA @ 24 VDC (LED "ON")
Operating humidity range:	10% to 93% Relative Humidity, (non-condensing)
Operating temperature range:	0° to 49°C (32° to 120°F)
Loop resistance:	40 ohms maximum

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