

# Addressable Smoke/Heat Detector

Technical Sheet

## Description

The FL-A-SHD904 analogue addressable smoke and heat detectors are advanced, microprocessor-controlled devices compatible with Firelast control panels.

Each loop can connect up to 125 or 250 detectors, depending on the protocol. These detectors combine advanced electronics with a photoelectric smoke sensing chamber and an electronic thermistor for early fire detection and reduced false alarms.

The heat sensor has two modes: sensitive rate-of-rise and fixed-temperature detection.

The FL-A-SHD904 range is designed for premium fire detection solutions focused on life safety and property protection



## Features

- Dual photoelectric smoke and heat sensors to detect either smoke, heat or a combination of the phenomena
- Ideal for both fast-flaming and slow smouldering fires
- Advanced algorithms provide analogue detection discrimination
- Surface-mount device (SMD) circuit board design
- High immunity against unwanted alarms
- Stable smoke sensing chamber. No adjustment or replacement required
- Durable heat sensor. No adjustment or replacement required
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- DC 24 V operation
- Convenient 2-wire connection to many popular loop protocols
- Easy installation with simple address setting DIP switches
- Available with 125 or 250 usable detector address settings per loop according to ST or XP protocol
- Optional remote LED output
- Low maintenance

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## Technical Specifications

Operating voltage	DC (17 ~ 28) V
Start-up current	≤ 400 μA
Start-up time	≤ 30 s
Quiescent current	≤ 460 μA
Sampling time	≤ 2 s
Alarm response threshold	(0.08 ~ 0.15) dB/m
Alarm indicator	Dual red LEDs
Remote LED output current (max)	2 mA
Reset voltage	≤ 3 V
Reset time	≤ 30 s
Usable addresses per alarm loop	125 (ST) / 250 (XP)
Operating temperature	(-10 ~ +55) °C
Operating humidity	(0 ~ 95) % RH, non-condensing
Storage temperature	(-25 ~ +80) °C
Storage humidity	(0 ~ 98) % RH, non-condensing
Dimensions (excluding contacts)	102 mm × 34 mm
Ingress protection rating	IP-42

## Ordering Information

FL-A-SHD904-L

Addressable Smoke/Heat Detector with LED

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