

# Addressable Heat Detector

Technical Sheet

## Description

The FL-A-HD902 analogue addressable heat detectors are advanced devices controlled by a microprocessor, designed to be compatible with commonly used with Firelast control panel loop protocols.

Depending on the protocol used—either ST or XP—up to 125 or 250 detectors can be connected to each alarm zone loop.

These detectors use an electronic thermistor sensor, which allows for sensitive rate-of-rise alarm operation, or a fixed-temperature alarm when the response threshold is exceeded.



The FL-A-HD902 range of analogue addressable heat detectors offers a high-quality fire detection solution for system designers, especially in applications where smoke or multi-sensor detectors may not be suitable due to environmental conditions.

## Features

- Advanced algorithms provide excellent detection discrimination
- Surface-mount device (SMD) circuit board design
- Durable 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**

Model	FL-A-HD902	FL-A-HD902-L
Operating voltage	DC (17 ~ 28) V	
Start-up current	≤ 400 μA	
Start-up time	≤ 30 s	
Quiescent current	≤ 460 μA	
Alarm current (max)	2 mA	5 mA
Sampling time	≤ 2 s	
Alarm response threshold	59 °C static, and rate-of-rise	
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 × 45 mm	
Ingress protection rating	IP-42	

**Ordering Information**

FL-A-HD902	Addressable Heat Detector
FL-A-HD902-L	Addressable Heat Detector with LED

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