

# Addressable Optical Smoke Detector

Technical Sheet

## Description

The FL-A-SD901 analogue addressable photoelectric smoke detectors are advanced, microprocessor-controlled devices designed for use with Firelast 2-wire addressable fire alarm control panel.

Each alarm zone loop can connect up to 125 or 250 detectors, depending on whether you are using ST or XP protocol. These detectors feature sophisticated electronics combined with a photoelectric smoke sensing chamber, ensuring early detection of fire while minimizing false alarms.



The FL-A-SD901 range offers fire detection and alarm system designers a high-quality smoke detector suitable for applications focused on life safety and property protection.

## Features

- 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
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- DC 24 V operation
- Convenient 2-wire connection
- 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-SD901	FL-A-SD901-L
Operating voltage	DC (10.8 ~ 26.4) 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	(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-SD901	Addressable Optial Smoke Detector
FL-A-SD901-L	Addressable Optial Smoke Detector with LED

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