

TFD-4050

Conventional Optical Smoke and Fixed Heat Detector (Multisensor)

The TFD-4050 is a conventional multi-sensor detector that combines optical smoke and heat sensing technologies to provide reliable fire detection across a wide range of applications. Its dual-sensor design ensures enhanced detection capability, while intelligent signal-processing algorithms minimize false alarms and maintain stable operation in various environments. The detector supports long-term performance through easy maintenance and cleaning of the smoke sensing chamber.



EN 54-5

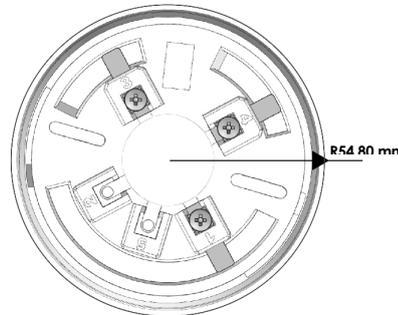
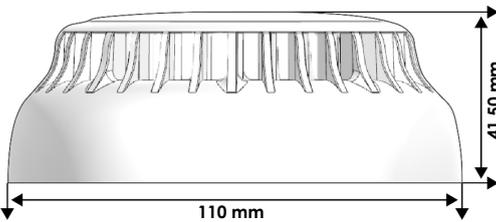
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General Features

- Advanced smoke detection algorithm that minimizes false alarms
- Rejection of transient signals that can be detected as alarms
- Easy to clean smoke chamber
- Dust algorithm and warning to understand that it is getting polluted and unable to detect
- Classified as A2S (EN 54-5)
- Dual NTC design for high accuracy and precise temperature measurement
- Supports 2x LED status Indicators Enables 360° view
- Up to 25s startup time
- Compatible with conventional fire panels of any brand
- Normal operation confirmation via heartbeat LED blinking every 20 seconds
- Compatible with TFA-0123 (3 Terminals) Universal Detector Base

Technical Specifications

	TFD-4050
Power Input	18V(min) – 30V(max)
Average Current Consumption	18µA (@24V)
Maximum Alarm Current	47mA (@24V) – (680Ω alarm load)
Operating Temperature Range	-10°C ~ +55°C (14°F ~ 131°F)
Humidity	95% RH (max)
Dimensions (mm)	Ø110, h42
Housing Material	White Color, ABS Plastic
Used Cable Cut	0.8mm ~ 1.5mm ²
Weight (incl. Base / excluding base)	164 gr / 112 gr
Startup Time	Up to 25s
Detector Base	TFA-0123 (3 Terminals)



TFA-0123
3 Terminals

