



teknim®

TFD-1251

Intelligent Addressable Smoke Detector with Built-in Isolator

TFD-1250

Intelligent Addressable Smoke Detector



TFD-1251 and TFD-1250 Detectors are designed to be connected two-wired loop circuit carrying both data and power. It uses FlashLink communication protocol to communicate Teknim Addressable control panels. Detector supports optical sensing technology by using a unique smoke chamber perfected by Teknim, through long term fluid mechanics and optic refraction tests.

It has a series of algorithms to minimize faulty detections and provide pollution warning. Sensitivity levels are adjustable through control panel or configuration software. Smoke chamber can be easily removed for cleaning in case of possible pollutions in excessively dusty environments.

Detector supports built-in isolator version (TFD-1251) to protect the loop line from short-circuit.

GENERAL FEATURES

- EN54-7 and EN54-17 Certified
- Detects smoke particles in the environment via light scatter principle
- Supports built-in Isolator (TFD-1251)
- Supports 2x LED indicators enables 360° view
- Supports Three different colors of indication by LEDs to individually display Status, Fire Alarm, Short-Circuit and Pollution (Blink Blue/Red/Fixed Blue/Yellow)
- 3 Different detection sensitivities adjustable from the control panel and configuration software (High, Medium, Low)
- Special software algorithms to eliminate sudden dust, smoke, etc. which may cause faulty alarms
- Adaptive protection preventing faulty alarms by sampling the environment continuously
- Advanced pollution algorithm that continuously measures pollution level and warns the user from detector and panel
- Supports Parallel indicator connection terminals
- Easy to clean smoke chamber
- Aesthetic and elegant design fits any environment
- Optional Label apparatus can be installed to the bottom of detector base view detector address from distance

Technical Specifications	TFD-1251	TFD-1250
Standard	EN 54-17 / EN54-7	EN54-7
Operating Type	Optical Sensing	
Built-in Isolator	Yes	No
Detection Level	H:0,12 – m:0,15 – l:0,18 dB/m	
Power	18-32VDC	
Average Consumption	80µA@32V	
Alarm Consumption	3mA	
Indicator Current	10mA (2K2 Resistor)	
Starting Time	15sec	
Weight (Include Base / Not)	183gr / 125gr	
Dimensions (mm)	Ø110, h42	
Body Material and Color	ABS Plastic – White	
Alarm Indicator LED	RED	
Status LED	Blue	
Isolator LED	Yellow	No
Operating Temperature	-10°C ~ 55°C	
Humidity	95% RH	
Protection Class	IP30	

