



FDOOTC241

Sinteso™
S-LINE

Multi sensor fire detector



ASAtechnology™ (MP1)

-
- Signal processing with *ASAtechnology™*
 - Event-controlled detection behavior
 - Analysis of the three criteria smoke, heat and gas
 - Very fast response to all carbon monoxide (CO) generating fires
 - Early and reliable detection of emerging fires
 - High immunity to deceptive phenomena
 - Suitable for air speeds of 1... 20 m/s
 - Separate detection of the highly toxic CO
 - Suited for future requirements thanks to programmability
 - Communication via FDnet
 - Ecologic material concept

Characteristics

- **Environmental**

- ecologically processing, recyclable materials
- electronic und synthetic material simple separable
- ecologically beneficial detector testing without test gas

- **Characteristics**

- resistant to environment and interference factors such as dust, fibers, insects, humidity, extreme temperatures, electro-magnetic interference, corrosive vapors, vibration, synthetic aerosols and atypical fire phenomena
- insensitive to impact, tamper protection
- signal processing with **ASAt echnology**TM ('Advanced Signal Analysis')
- time- and process-dependent detection behavior
- high immunity to power electronics disturbances
- protected electronics, high-quality components
- sophisticated sensor and electronics surveillance
- redundant, high-quality sensor system
- built-in alarm indicator (AI), visible at 360°
- integrated short-circuit isolator

FDOOTC Multi sensor fire detector, neuronal ASA

- **Function**

- works according to the scattered light principle with two sensors, optical forward and backward scattering
- Opto-electronic sampling chamber holds off disturbing extraneous light but optimally detects both dark and light smoke particles
- two additional heat sensors and an additional CO sensor increase the fire detector's immunity to deceptive phenomena and the response characteristics of the fire detector
- selectable detection behavior by application-specific ASA parameter sets

- **Application**

- for the very early detection of smoldering fires generating carbon monoxide (CO) (e.g. mattress fire in asylum)
- for the very early and reliable fire detection in environments with deceptive phenomena
- addressable

FDOOTC life safety CO detector (from MP2)

- **Function**

- works with an electrochemical CO cell
- transmission of a CO concentration alarm on an independent technical CO alarm channel
- signal processing by the technical CO alarm channel independently of the CO signal processing for fire detection
- selectable detection behavior of the CO alarm channel, independent of ASA-parameter sets for fire detection

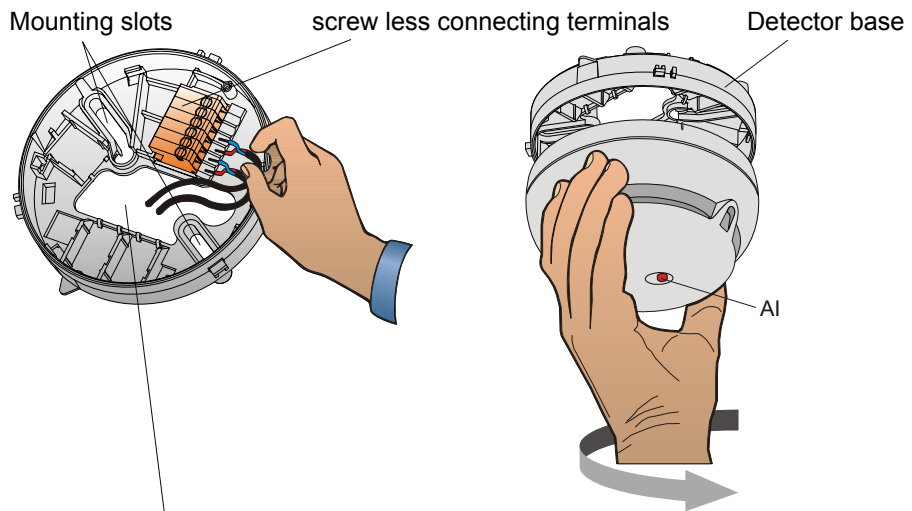
- **Application**

- Environments with increased CO intoxication risk, e.g. heating rooms, combustion or fermentation plants, wine cellars, car parks, automotive workshops, etc.

Installation

- **Easy, time-saving and high-quality mounting**

- base with stand-offs for surface and recess supply wiring
- base without stand-offs for gap free ceiling mounting, only for recess supply wiring
- universal base for surface and recess supply wiring
- Extra-large mounting slots facilitate a re-use of existing drill holes resulting from other systems.
- large opening in the detector base for easy cable insertion
- screw less terminals (spring clip principle)
- detector line can be connected without any tools; the wire can be simply plugged in manually
- detector can be easily turned into the base by hand, or with the detector exchanger

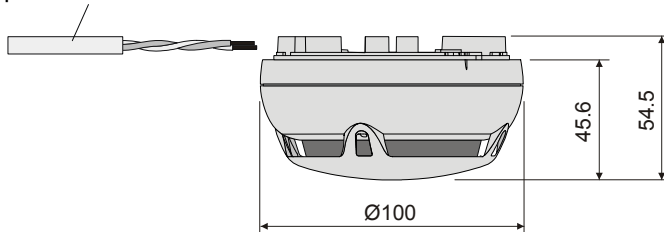


Opening for cable entry

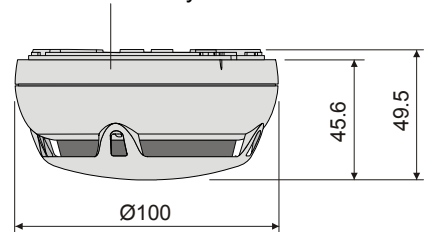
- alarm indicator (AI) centered in the detector; no alignment required

Dimension

with base FDB221, FDB221-AA for surface cable to $\text{\O}6$ mm possible




with base FDB222 for gap free ceiling mounting, only for recess cable entry



Efficiency on site

- 'one man' testing, commissioning, diagnostics and maintenance
- detector replacement without new parameter setting
- detector replacement without ladder up to 8 m height

Technical data

 Siemens Schweiz AG, CH-6301 Zug Date: see manufacturing date on the product 0786-CPD-20694	Operating voltage (modulated)	12... 33 VDC
	Operating current (quiescent)	320... 400 µA
EN54-7, EN54-17 Point smoke detector; Safety in case of fire EN54-5 P Point heat detector; Safety in case of fire FDOOTC241 Technical data see Doc. A6V10209291	Ext. alarm indicator without sounder base	2
	Ext. alarm indicator with sounder base	1
AI connectable and programmable		
Operating temperature	-20... +50 °C	
Storage temperature	-20... +55 °C	
Humidity	15... 90 % rel.	
Short-term moisture condensation permitted	0... 99 % rel.	
Communication protocol	FDnet	
Color	white, ~RAL 9010	
Protection category EN60529 / IEC529		
- Base FDB221/-AA, FDB222	IP43	
- Base attachment FDB291	IP44	
Standard	CEA4021, EN54-5, EN54-7, EN54-17, VdS2806	
Approvals		
- VdS	G209040	
- LPCB	pending	
Permissible air speed	1... 20 m/s	
System compatibility FDnet	FS20 (MP2.1)	
QS Standard	Siemens Standard SN 36350	

Details for ordering

Type	Part no	Designation	Weight
FDOOTC241	S54311-F1-A1	Multi sensor fire detector	0.106 kg

Base and base attachment see data sheet 007775

Details see equipment overview 008164

Details about system compatibility see List of compatibility 008331

Siemens Switzerland Ltd
 Industry Sector
 Building Technologies Division
 International Headquarters
 Fire Safety & Security Products
 Gubelstrasse 22
 CH-6301 Zug
 Tel. +41 41 724 24 24
www.siemens.com/buildingtechnologies

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