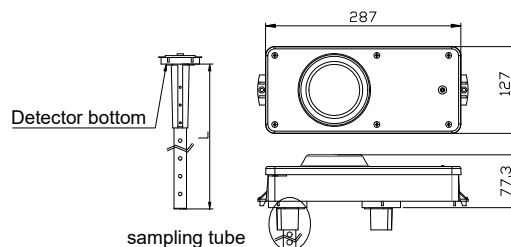


USC9210 Duct Smoke Detector



Applications & Features

- Designed for detecting earlier smoke presence from various ducts of HVAC or ventilation systems
- Utilizes photoelectric technology, senses the air sampled from the sampling tube extended into the ventilation duct. When sufficient smoke is sensed, an alarm signal will be initiated for shutting off fans or other equipment, to prevent the toxic smoke and fire gases from entering protected areas, and stop the spread of fire through ventilation ducts
- Alarm, supervisory and auxiliary relay contacts are available for control panel interface, HVAC equipment and other similar functions
- With self-diagnosis technology, it can diagnose power supply abnormal, communication failure, cover dislocation, etc., and judge the problem through the flashing LED, to improve stability and reliability
- Supports 2-bus input for accessing the fire bus system
- Sampling tubes are available in various lengths and are recommended to cross the entire length of the duct

Specifications (see details from the manual of APC)

Sensor: photoelectric smoke detector

Air Velocity: 1.0~20 m/s (200~4000ft/min)

Environment Work: -20~70°C, 0~90%RH (Non-cond.)

Storage: -30~70°C

Power: (20~29VDC) ±1V or 2-bus input

Monitor current: 35mA@24VDC

Alarm current: 55mA@24VDC

Alarm response time: 15s

Alarm relay: SPST, 2A @30VDC/125VAC

Failure relay: SPST, 2A @30VDC/125VAC

Auxiliary relay: 2xSPST, 2A @30VDC/125VAC, can be set to alarm or failure relay by DIP switch

LED Indicators: Running (red/green), Fault (yellow)

Electrical connection: screw terminals

Enclosure: Gray PC bottom box and transparent upper cover (UL94-V0)

Protection: IP54

Weight: 1kg (excluding sampling tube)

Approvals: CCCF

Models

Model	Insert Length	Apply for Duct Width
STN1	300mm (1 ft)	<0.3m (1 ft)
STN1.5	450mm (1.5 ft)	0.3-0.6m (1-2 ft)
STN3	900mm (3 ft)	0.6-1.2m (2-4 ft)
STN5	1500mm (5 ft)	1.2-2.4m (4-8 ft)
STN10	3000mm (10 ft)	2.4-3.7m (8-12 ft)