DUCT SMOKE DETECTORS

RWE..

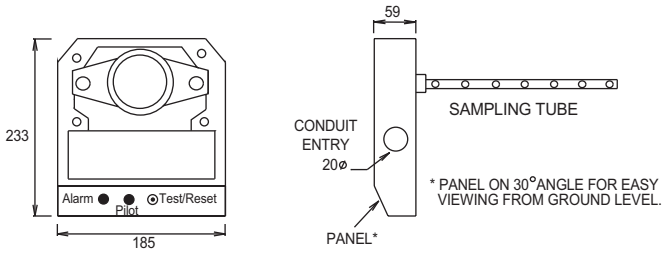
- Detects smoke / combustion products in air moving through HVAC ducts. Ionisation Model - detects small smoke particles 0.1-1 micron and combustion gases as in fast burning fires. Photoelectric Model - best suited to detect large smoke particles 1-10 micron e.g. PVC insulation, fabrics & furnishings.

Humidity 10% to 85% RH no condensation
Ambient temp: RWE-N 0-70°C
RWE-P 0-60°C
Volt Free Contacts
Power Consumption:-
Standby: 230VAC 12mA 24VAC 35mA 24VDC 15mA
Alarm: 230VAC 16mA 24VAC 74mA 24VDC 56mA
Remote test & reset facility
Alarm indication light — Steel Backbox
Plastic ABS cover — Terminals 0.5-2.5mm²
Enclosure Flammability = UL94-V0

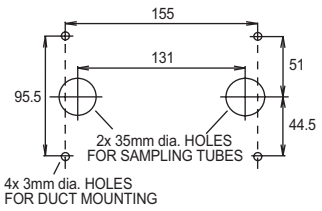
Type	Detector head	Supply ± 10%	Fault Contact SPDT	2 x Alarm Contacts 230VAC	230VAC	Air Velocity min	m/s	max	Enclosure
RWE-N	Ionisation	230 VAC or 24VAC/DC	5(2)A 230VAC	10(2)A SPDT	10(2)A SPDT	1.5		20	IP43
RWE-N	Photoelectric	230 VAC or 24VAC/DC	5(2)A 230VAC	10(2)A SPDT	10(2)A SPDT	1.5		20	IP43
	INCLUDES 150MM SAMPLING TUBE								
ST750	750mm	Sampling Tube							
ST1500	1500mm	Sampling Tube	ORDER SAMPLING TUBE ACCORDING TO DUCT WIDTH & CUT TO SUIT						
ST3000	3000mm	Sampling Tube							

DIMENSIONS

RWE..

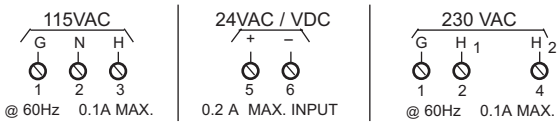


DRILLING DETAIL

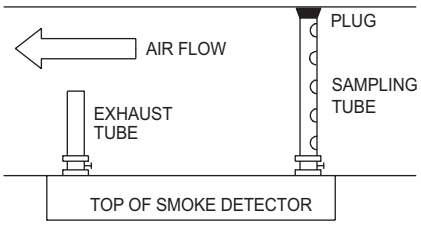


WIRING:

Power Connections



INSTALLATION:



Fit the sampling tube across the entire width of the duct.
The tube can be cut to the required length. Minimum duct width 200mm.
FIT THE PLUG PROVIDED TO THE END OF THE SAMPLING TUBE.
The holes in the sampling tube should face towards the air flow.
ΔP between input & exhaust tubes should be between 0.024 to 3.0 mbar
An exhaust tube is provided – this must not be blocked.
The tubes & air flow direction can be reversed.

To prevent false alarms, avoid mounting in areas of extreme high/low temperature, in areas of high humidity or a dusty environment.
The unit should be mounted in a straight duct away from bends or other deflections or turbulent areas.

OPERATION:

Normal / Power On	Pilot light on. Fault contacts 14 - 15 close. Alarm light off. Alarm contacts 8-9 & 11-12 open.
Smoke / Power On	Pilot light on. Fault contacts 14 - 15 close. Alarm light on. Alarm contacts 8-9 & 11-12 close.
Detector Out/ Power Off	Pilot light off. Fault contacts 14 - 13 close. Alarm light off. Alarm contacts 8-9 & 11-12 open.
Testing	By keeping the reset/test button depressed a smoke condition is simulated.
Resetting	Allow approximately 5 minutes for the smoke to clear from the detector head and then press and release the reset/test button. The unit returns to a normal condition.

MAINTENANCE:

Periodically clean the tubes & detector head by vacuuming or blowing with compressed air. Do not use chemicals.