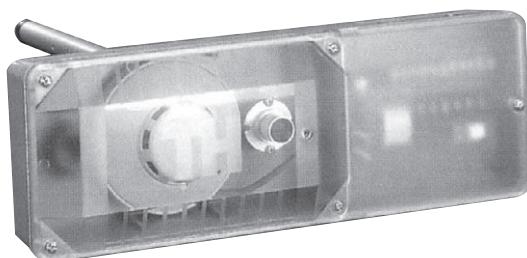




## 6-3

### Duct smoke detector DS-100



#### Summary

DS100 is easy to install and has simple maintenance with various functions as sampling unit. Excellent Sensor head of Smoke detector is installed as smoke alarms and control device.

#### Product Content

DS100 is available with flow speed 1.0~25m/s of duct inside with photoelectric and ionization smoke detector installed. Control relay is operated to shut-down fans, blowers, etc when smoke is detected. Alarm signal is transferred to supplementary alarm devices, such as Buzzer or Announcer.

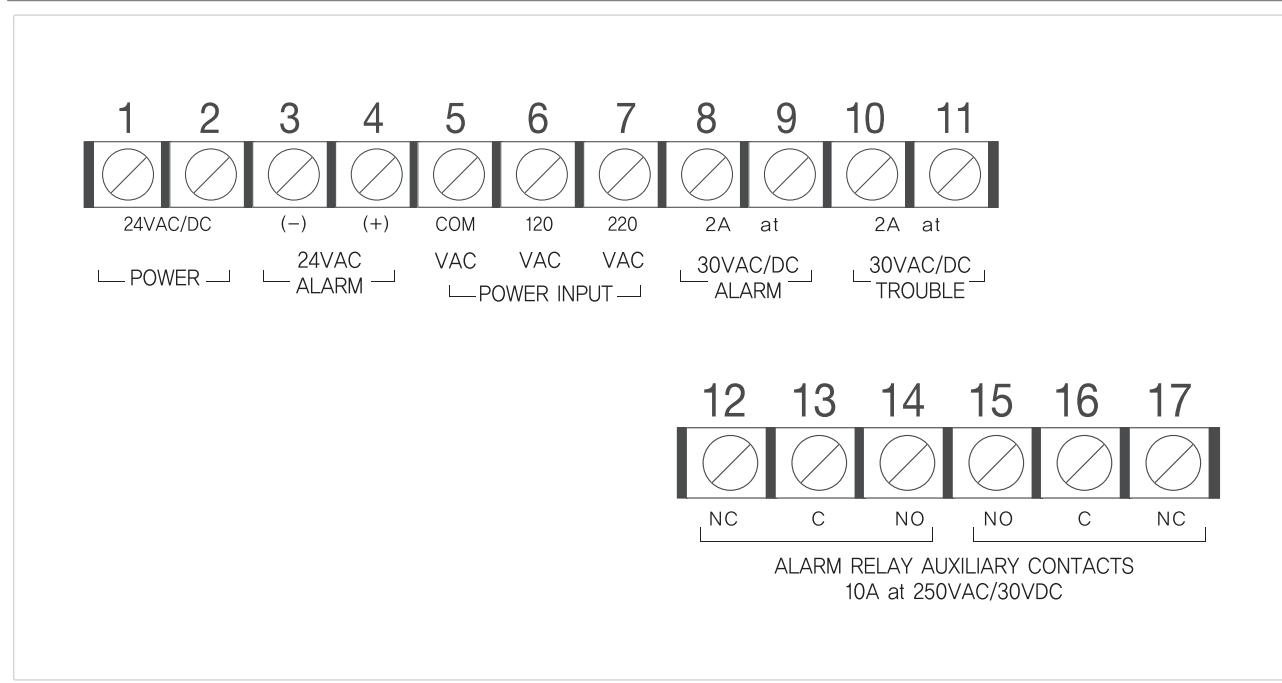
Although smoke of duct inside is vanished away and returned to normal conditions, process doesn't stop until Alarm restored by Reset Button on the bottom.

Trouble Alarm Contact comes out in case of broken sensor of smoke detector or power-fail or Reset. Simultaneously, green LED of inside indicates power and yellow LED does Trouble.

Duct Air Sampling Unit is equipped with enclosed chamber and Sample tube according to UL268A. It is easy to install into square or round Duct.

#### Product Feature

- 24VAC/VDC, 110/220VAC Input Power
- Compact shape
- Power-on/sensor Trouble/Alarm LED installed
- Including various functions additionally
- Sensor/Power Trouble Alarm Contact installed
- Filter installed to remove dust
- Simple test and Reset
- Ionization or photoelectric sensor applied
- Alarm Contact installed to control up to 2 high voltages
- Including air Sample Tube
- Alarm Contact installed to initialize low-current
- Ambient temperature : -10~50°C
- Supplementary alarm device
- Ambient humidity : 0~99%RH
- Responding speed : 2 ~ 17sec
- Weight : 1.5kg
- Size(mm) : 370(W) x 130(H) x 70(D)

 **Wiring Diagram**

 **Specification**

| power voltage                                   | 24VDC | 24VDC 50~60Hz | 110VAC 50~60Hz | 220VAC 50~60Hz |
|---|-------|---------------|----------------|----------------|
| Consumption power(without supplementary device) |       |               |                |                |
| maximum standby current                         | 45mA  | 53mA AC avg.  | 24mA AC avg.   | 13mA AC avg.   |
| maximum alarm current                           | 63mA  | 80mA AC avg.  | 27mA AC avg.   | 15mA AC avg.   |

|                                    |     |                    |
|------------------------------------|-----|--------------------|
| initialization alarm contact(SPST) | 2A  | 30VAC/VDC          |
| supplementary alarm contact(DPDT)  | 10A | 30VDC              |
|                                    | 10A | 250VAC             |
| trouble contact(SPST)              | 2A  | 30VDC (resistance) |