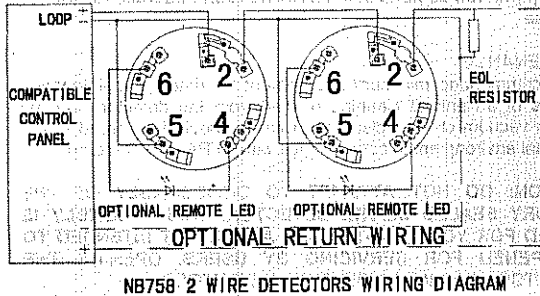


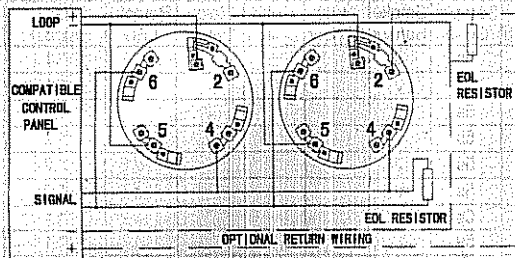
### TYPICAL WIRING DIAGRAM

Figure 1(a) shows the typical wiring diagram of the 2-wire multiple-station smoke/heat detector system.



NB758 2 WIRE DETECTORS WIRING DIAGRAM

Figure 1(b) shows the typical wiring diagram of the 4-wire multiple-station smoke/heat detector system.



NB758 4 WIRE DETECTORS WIRING DIAGRAM

Note: Loop circuit capacity: 9~33VDC, ≥50mA

DO NOT PLACE LINKS BETWEEN THE WIRING POSITIONS OF TERMINALS 2 AND 5 TO PROVIDE POWER SUPERVISION.

### WARNING

TO PREVENT DETECTOR CONTAMINATION AND SUBSEQUENT WARRANTY CANCELLATION, THE SMOKE DETECTOR MUST REMAIN COVERED UNTIL THE AREA IS CLEAN AND DUST FREE.

### INSTALLING THE BASE

- To insure proper installation of the detector head to the base, all the wires should be properly addressed at installation:
  - Position all the wires flat against terminals.
  - Fasten the wires away from connector terminals.
- If you use a jumper wire to connect the poles of terminal 2 and 5 when testing the detector loop continuity, be sure to remove the jumper wire prior to the installation of the detector head.
- The end-of-line device shown in fig. 1(a) and 1(b) should be compatible with the control unit.
- Open area smoke detectors are intended for mounting on a ceiling or a wall in accordance with the fire standard in your country.
- The base of the smoke detector can be mounted directly onto an electrical junction box such as an octagonal (75mm, 90mm or 100mm), a round (75mm), or a square (100mm) box without using any type of mechanical adapter.

### INSTALLING THE HEAD

- Align the components as shown in Figure 2.
- Mate the detector head onto the base and twist clockwise to secure it.
- Do not install the detector head until the area is thoroughly cleaned of construction debris, dusts, etc.

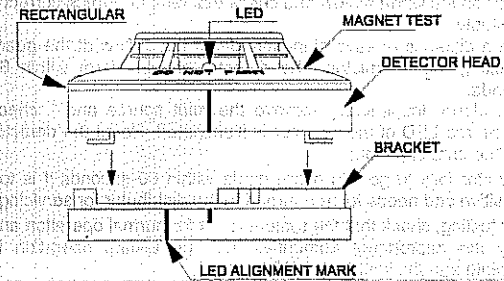


Fig. 2 Mating detector head onto base

### ADJUSTING THE RELAY FOR NO/NC

The default condition of relay output is "normally open" (NO).

- To adjust the default condition of relay to "normally closed" (NC), take the screw out located on the side between the front cover and base.
- Refer to figure 3. There is a jumper head next to the relay on the PCB. Remove the jumper head and re-insert it in the NC position.
- replace the front cover. Carefully

Relay contact rating:  
1A@30VDC,  
0.5A@125VAC.

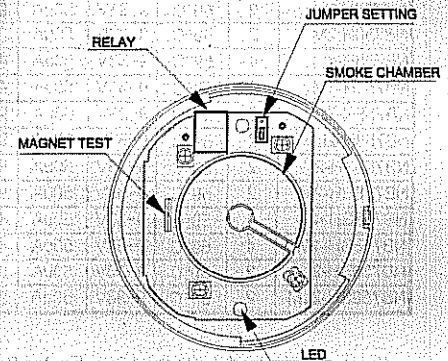


Fig. 3 Schematic of detector structure  
When front cover is open.

### TESTING

- All the alarm signal services, releasing device and extinguisher system should be disengaged during the test period and must be re-engaged immediately at the conclusion of testing.
- After energizing the detector head for approximately 60 seconds, check to see the indicator red LED flashing once every 4-5 seconds. If red LED fails to flash, it indicates the non-functioning of the detector or faulty wiring. Re-check the wiring or replace the detector if necessary.

### REED SWITCH TESTING

Take the magnet against the position of top cover marked in Fig.2. the detector will alarm after flashing once every 1.1seconds continuously for several times. If the detector fails to alarm, please re-check the magnet close to the mark on the toper or replace the detector if necessary.