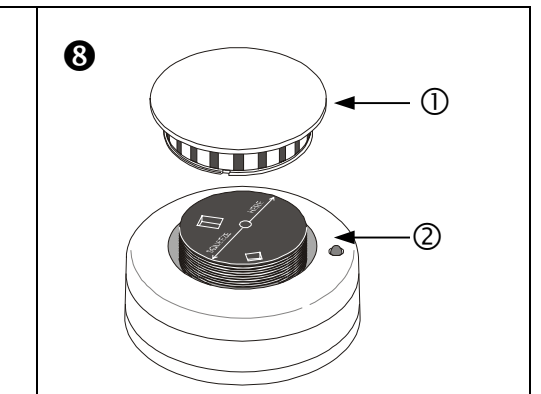
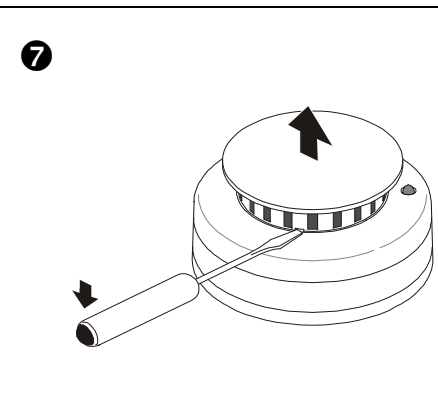
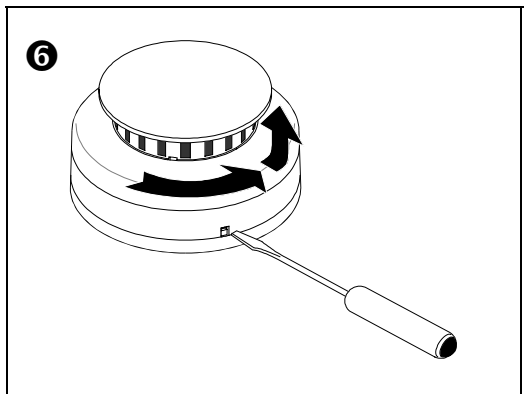
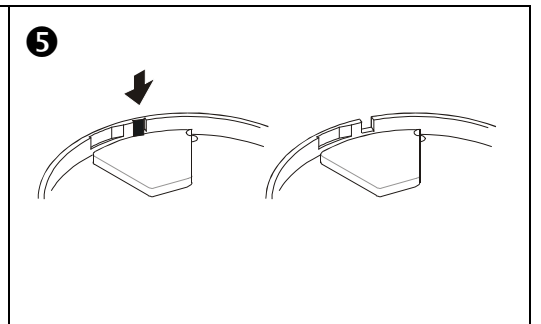
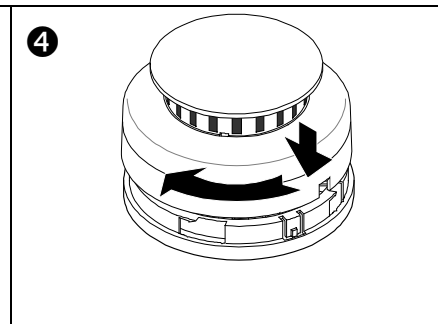
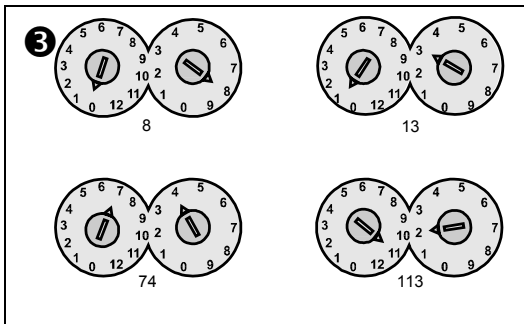
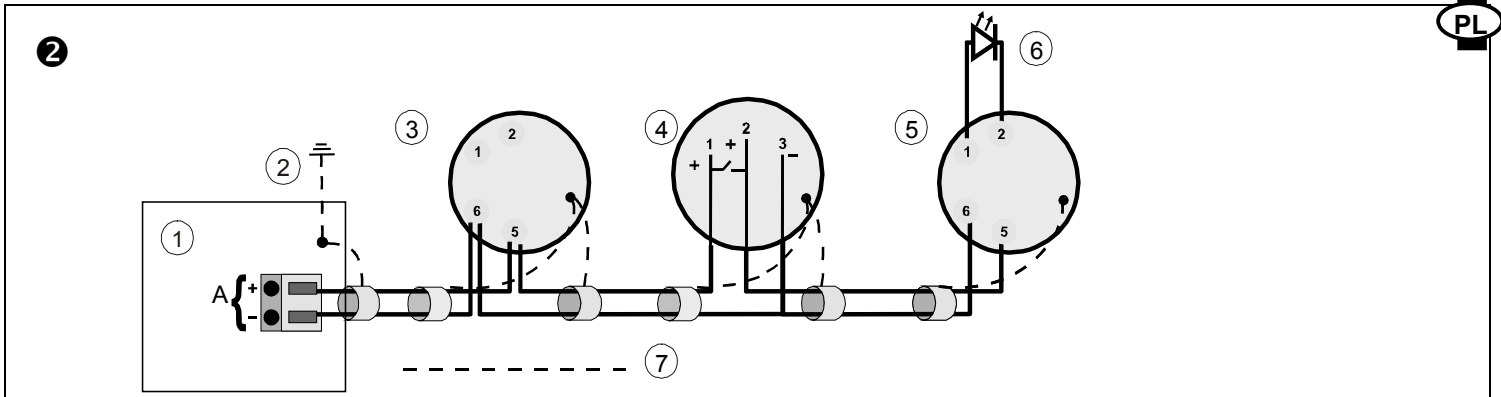
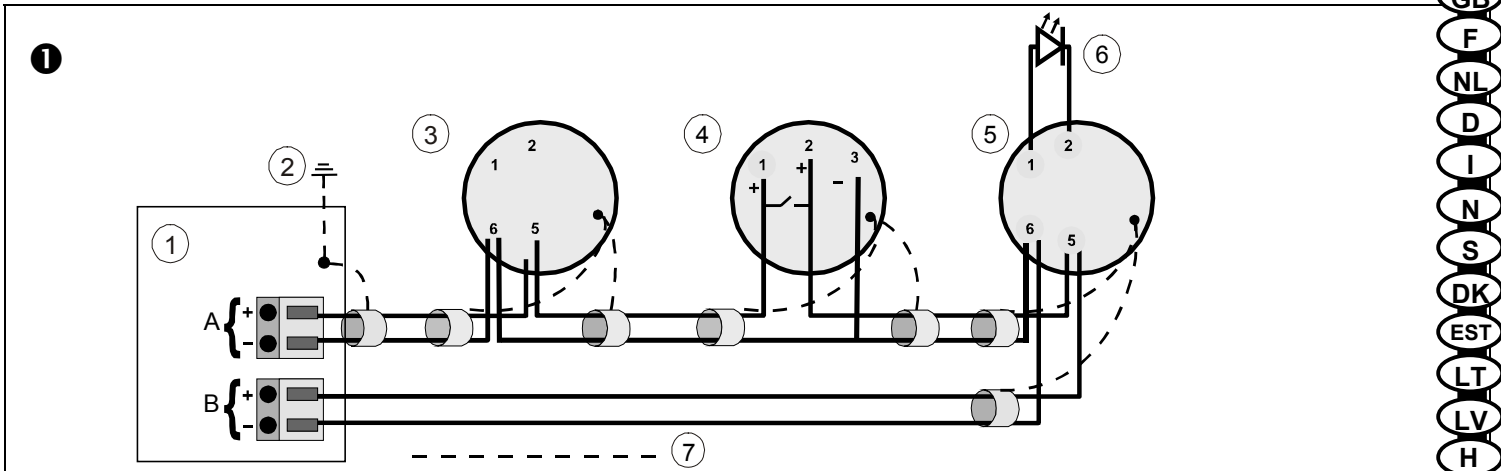


# 2000 Series Addressable Fire Sensors Installation & Service Instructions

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## 2000 Series Addressable Fire Sensors Installation & Service Instructions

### CLASS A STYLE WIRING DIAGRAM (SEE FIGURE ①) AND CLASS B STYLE WIRING DIAGRAM (SEE FIGURE ②)

- ① Fire control panel
- ② Earth
- ③ First detector
- ④ Isolator
- ⑤ Last detector
- ⑥ Remote indicator
- ⑦ Shield: strongly recommended
- A Initiating circuit
- B Supervision return

*Note:*

- Detectors are not polarised; isolators are polarised!
- Polarity must be observed when using remote indicators.
- Ground shield is optional, but not required.

### FIRE SENSOR PLACEMENT AND SPACING

In general, ceiling mounted smoke detectors should be located near the centre of the room or hall whenever possible. Sensors should always be placed a minimum of 100 mm from any wall. When the sensor is wall mounted, the top of the detector should be 100 - 300 mm from the ceiling.

When more than one detector is required, spacing of 9 m may be used as a guide on smooth ceilings. Other spacing may be used depending on ceiling height, high air movement, and other conditions or response requirements. Local regulations should be observed at all times.

### WHERE NOT TO PLACE SMOKE SENSORS

One of the major causes of nuisance alarms is improper placement of sensors. Avoid locating sensors too close to kitchens or wood stoves where smoke can be generated. Garages and furnace rooms are also poor locations, due to exhaust fumes. Placing sensors too close to bathrooms can cause problems from steamy baths or showers.

### SETTING THE ADDRESS

To install a detector address (see Figure ③), use a screwdriver to adjust the two rotary switches on the back of the sensor. Set the left rotary switch (0 through 12) for the 10's and 100's digit and the right rotary switch for the 0 through 9 digit.

### INSTALLING THE DETECTOR HEAD

To install a detector head, simply insert the head and rotate it clockwise until it is properly aligned and "sets" into the base (Figure ④). Then rotate it an additional 15° to lock it in place.

### CONSIDER THE LOCKING MECHANISM BEFORE INSTALLATION

Each 2000 Series universal mounting base is equipped with a moulded locking mechanism to prevent unauthorised removal of the detector head (Figure ⑤). If you want detectors to be locked in the base, remove tab before inserting into the base. To remove the detector head, insert a small screwdriver into the slot on the side of the base and press in while simultaneously turning the detector head counter clockwise (Figure ⑥).

### TESTING THE INSTALLATION

After all connections are completed and the wiring is checked, apply power to the system. There should not be an alarm nor a fault. If there is, determine whether the detectors are correctly wired, addressed and if the type is correct.

### TESTING EACH DETECTOR

All 2000 Series smoke detectors are shipped with a plastic dust cover for use in areas where construction is on-going. Smoke detectors will not work with the dust cover in place. Remove the dust cover when installation is completed, prior to testing.

All smoke detectors should be tested in place at least annually or according to local regulations, to ensure smoke entry into the sensing chamber and alarm response. If canned smoke (test aerosol) is used, carefully follow the manufacturer's directions to avoid damage to the detector.

Test heat sensors by using a hot air gun. Aim at heat sensor from 15 to 25 cm away. Be careful not to melt plastics.

### MAINTENANCE AND CLEANING

The sensing chamber of the 2000 Series photoelectric detector unsnaps for easy field cleaning and service (Figure ⑦). Whenever the diagnostics indicates cleaning is necessary, remove the photoelectric detector cap, snap off and throw away the optical block chamber (Figure ⑧: ① Detector cap; ② Field replaceable optical chamber). Then blow off the optical block base and snap on a new block chamber back in place, replace the cap and verify sensitivity.



## Détecteurs adressables Série 2000 Manuel d'installation et de maintenance

### SCHEMA DE CABLAGE CLASSE A (VOIR FIGURE ①) ET CLASSE B (VOIR FIGURE ②)

- ① Centrale de détection incendie
- ② Terre
- ③ Premier détecteur
- ④ Base isolateur
- ⑤ Dernier détecteur
- ⑥ Indicateur à distance
- ⑦ Ecran : recommandé
- A Départ de la boucle
- B Retour de la boucle

*Notes:*

- Les têtes de détection sont insensibles à la polarité. Les isolateurs nécessitent la polarité correcte!
- La polarité doit être respectée lorsqu'on utilise des indicateurs d'action.
- Du câble faradisé peut être utilisé mais n'est pas obligatoire.

### INSTALLATION DU DETECTEUR ET ESPACEMENT

En général, les détecteurs sont montés au plafond et doivent être installés au milieu de la pièce chaque fois que c'est possible. Les détecteurs doivent être placés à plus de 100 mm d'un mur. Lorsque le détecteur est installé sur un mur, le haut du détecteur doit se trouver de 100 à 300 mm du plafond.

Lorsqu'il est nécessaire d'installer plus d'un détecteur, un espacement tous les 9 m est requis pour des hauteurs normales de plafond. D'autres espacements peuvent être choisis, dépendant en cela de la hauteur du plafond, des turbulences d'air importantes ou d'autres conditions d'environnement. Les