

# INSTRUCTION MANUAL

## CONVENTIONAL DETECTORS

### D9000 series

Type	Characteristics	Sensitivity / Class
D9000 SR	Optical smoke fire detector	EN 54-7
D9000 T/A1R	Rate of rise heat detector	A1R, EN 54-5
D9000 T/A1S	Fixed temperature heat detector	A1S, EN 54-5
D9000 MSR	Combined optical smoke and heat detector	A1R, EN 54-5 / EN 54-7

**Caution :** Read this manual before attempting to install the detector.

#### 1. TECHNICAL DATA

– Supply voltage	<b>10-30 V DC</b>
– Current consumption in Standby mode	<b>≤ 130 μA</b>
– Current consumption in Alarm condition	<b>20 mA/ 24V DC</b>
– Time to enter standby mode after reset	<b>up to 35s</b>
– Reset time	<b>2s</b>
– Degree of protection	<b>IP 43</b>
– Type of the connecting line to the base	<b>0,5÷1,5 mm<sup>2</sup> / two-wire</b>
– Output in Alarm condition (term. 3)	<b>limited to 2 kΩ, negativ</b>
– Operating temperature range	<b>minus 10°C ÷ plus 50°C</b>
– Humidity	<b>(93 ± 3)% at 40°C</b>
– Dimensions with base	<b>Ø 100mm h ≤ 52mm</b>
– Weight	<b>≤ 100g</b>

#### 2. INSTALLATION

- Choose the place (according to the plans of the project) for the installation of the detector;
- Mount the base with appropriate fixings;
- Connect the electrical cables according to the attached diagram ( Figure 1);

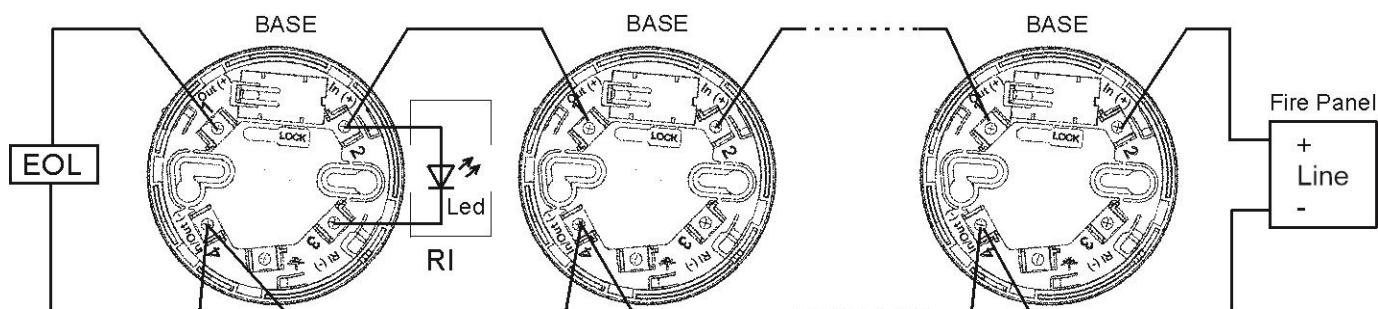


Fig.1

- Place the detector base and rotate clockwise till matching markers;
- If you want to lock detector:
  - Pre remove the key from the base ( Figure 2).
  - Break the plastic at the specified location on the bottom of the sensor ( Figure 3 ).

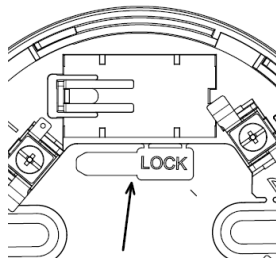


Fig.2

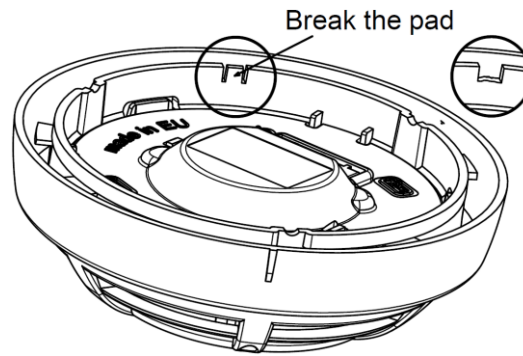


Fig.3

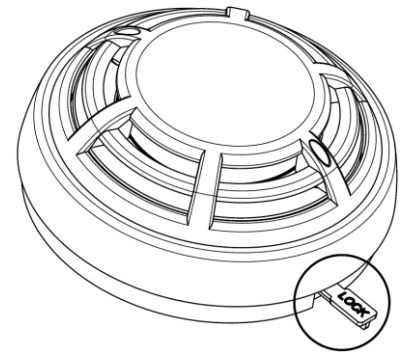


Fig.4

- Place the detector on the base and rotate it .
- If the detector is locked to the base, to unlock it , insert first the key to the specified location (Fig. 4) and rotate the detector counterclockwise;
- Test the detector to check the correct operation of the LED indication;
- During normal operation, the LEDs blink every 16 seconds.

### 3. TESTING AND SERVICE SCHEDULE

- Testing
  - Apply power;
  - Wait about a minute or until the detector begins to blink;
  - Operate the detector test spray and / or temperature source. The two red LEDs must illuminate permanently.
- Service schedule
  - Visual inspection for mechanical damage and pollution - once a year;
  - Verification of performance - once a year;
  - Prophylactic cleaning - depending on the environment in which it is located.

Optical detectors D9000 SR/MSR are software tested and when the detector is contaminated, it is signaled by flashing LEDs for 2 seconds to 2 seconds.

D9000 Series detectors are compatible with all conventional power panels, that have met the requirements of a standards EN54.

The detectors are available with three types of bases:

- **B 9000** - Standard base;
- **B 9000D** - Standard base with mounted diode for fault detection - removed detector;
- **B 9000R** - Standard base with relay output 12V for security panels.

### 4. Warranty obligations

The warranty period is 36 months from the date of sale, provided that:

- the conditions of storage and transport have been followed;
- release is performed by authorized persons;
- the requirements for operation stated in this instruction have been abode;
- defects are not caused by natural phenomena and accidents of the plug socket.