

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



#### 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);

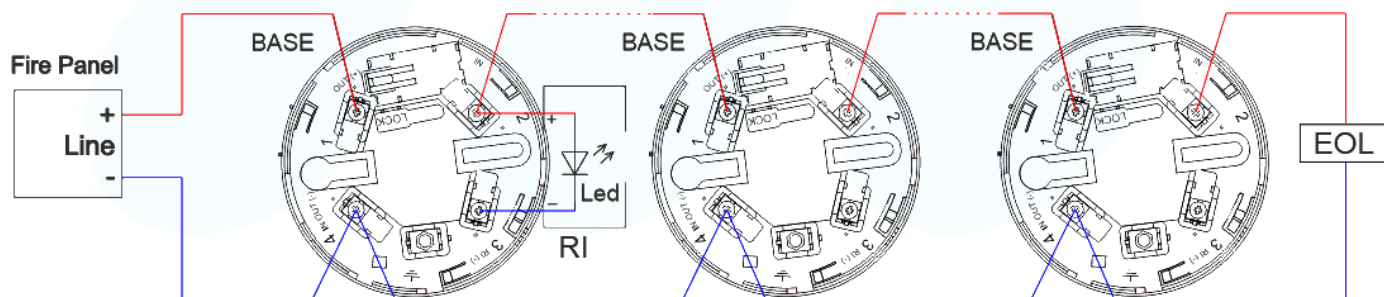


Fig.1

- 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).

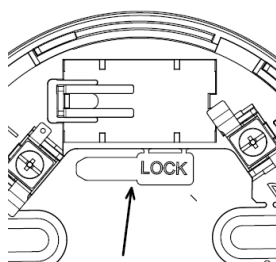


Fig.2

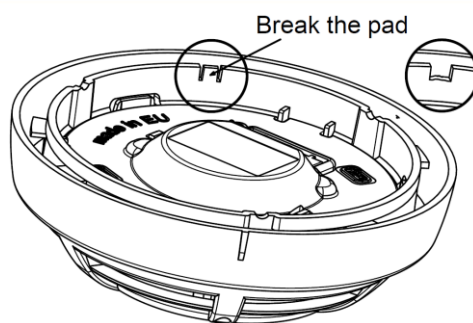


Fig.3

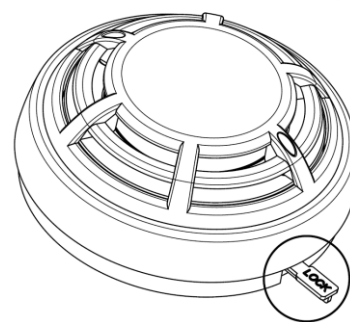


Fig.4

- 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
  - Verification of performance
  - Prophylactic cleaning
- once a year;
  - once a year;
  - depending on the environment;

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 manufacturer guarantees the conformity of the devices with standards EN 54-5 and EN54-7. 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 personnel;
- the requirements for operation stated in this instruction have been abode.
- defects are not caused by natural phenomena and accidents of the plug socket.

If a warranty repair is required, contact your supplier.

1922 – CPR - 1806  
1922 – CPR - 1807  
1922 – CPR - 1810



*DMTech wishes you pleasant work!*