

## Installation and operation conventional fire detectors

### D9000 series

Nom.№2	Type	Characteristics	Sensitivity / Class
1001	D9000 SR	Optical smoke detector	EN 54-7
1002	D9000 T / A1R	Rate of rise heat detector	A1R, EN 54-5
1003	D9000 T / A1S	Fixed temperature heat detector	A1S, EN 54-5
1004	D9000 MSR	Combines optical smoke and heat detector	A1R, EN 54-5 / EN 54-7

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

#### 1. Technical specifications

- Supply voltage **9-30 V DC**
- Power consumption in Duty condition **≤ 130 μA**
- Consumption in " Fire " condition **20 mA/ 24V DC**
- limiting resistor output **2kΩ**
- Degree of protection **IP 40**
- Cross section of the connecting wire **0,4÷2,0 mm<sup>2</sup>**
- Operating temperature range **10°C ÷ 50°C**
- Humidity **(93 ± 3)% при 25°C**
- Dimensions with base **Ø 100mm h ≤ 52mm**
- Weight **≤ 100g**

#### – Mounting the detector

- 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 ) ;;

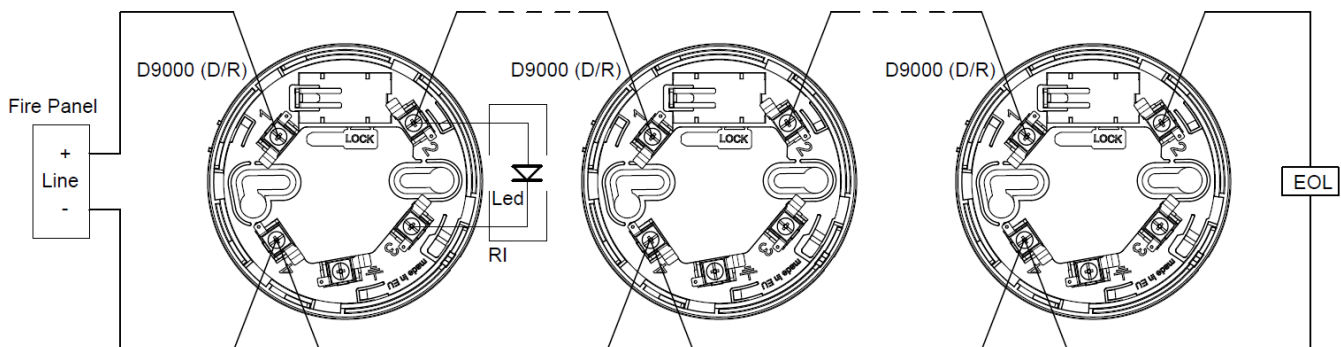


Fig.1

- 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 ).

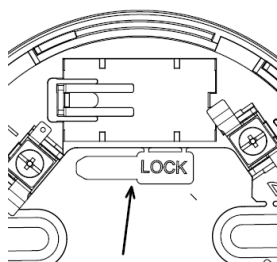


Fig.2

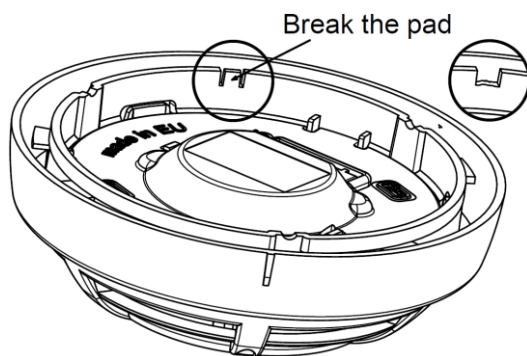


Fig.3

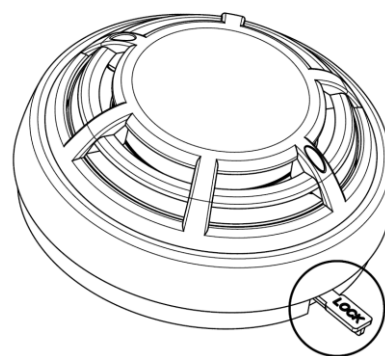


Fig.4

- Place the detector 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 for 16 seconds.

## 2. Testing and Maintenance

### ➤ Testing

- Apply power;
- Wait about a minute or until the detector begins to blink;
- Activate the detector test spray and / or temperature sonda. The two red LEDs must illuminate permanently.

### ➤ Service maintenance

- 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 plants, that have met the requirements of a standards EN54.

The detectors are available with three types of bases:

- **In 9000** - a standard basis;
- **In 9000D** - standard base with diode for recording damage detector down;
- **In 9000R** - standard base with relay output 12V for security panels.

## 3. Warranty obligations

The manufacturer guarantees the conformity of the device with standards EN 54-5 and EN54-7. The warranty period is 24 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.

When there is the need of warranty repair , please contact us by phone or email to give you guidelines for the warranty obligations of the company. Repairs are carried out in the company's service company.

Tel./Fax: +359 64 801 597  
e-mail: office@dm-teh.com

*DMTech wishes you pleasant work!*