



# BSR-6057/A ADDRESSABLE OPTICAL SMOKE AND THERMAL DETECTOR



| TECHNICAL CHARACTERISTICS    |   |
|------------------------------|---|
| OPERATION VOLTAGE            | 21-28V DC                                 |
| IDLE STATE POWER CONSUMPTION | 1mA                                       |
| ALARM POWER CONSUMPTION      | 1.5 mA (with indication LED activated)    |
| SENSITIVITY                  | 0.120dB/m and 60 °C                       |
| INDICATORS/OUTPUT            | Alarm LED/to external LED driver (BS-572) |
| CLASS                        | A2S                                       |
| DEGREES OF COVER PROTECTION  | IP 20                                     |
| PRODUCED IN ACCORDANCE WITH  | EN 54-5, EN 54-7                          |
| OPERATION TEMPERATURE RANGE  | -10 to 60 °C                              |
| RELATIVE HUMIDITY            | Up to 95%                                 |
| EXTERNAL DIMENSIONS          | 103 (diam.) x 48 (height) mm              |
| TYPICAL WEIGHT               | 160gr.                                    |
| GUARANTEE                    | 2 years                                   |

**Congratulations for your selection to buy this product.  
Olympia Electronics - European manufacturers.**

### **GENERAL**

Before installing the detector, the user must read these instructions carefully and store this manual for future reference.

BSR-6057/A is an addressable optical smoke and thermal detector. It co-operates with BSR-1116 and BSR-2100 panels. The device transmits an analogue value to the panel which depends on the amount of the smoke that there is in the area. The analogue value is 100 with obscuration rate 0.120dB/m (small amount of smoke).

The factory setting of the panel is to issue an alarm when the analogue value is greater than 110.

*The user can change from the panel this analogue value from 100 (high sensitivity) up to 120 (low sensitivity).*

At the temperature of 60 °C the thermal detector is activated and gives an 120 value.

They have two parts, one plastic base which is installed on the ceiling and the main unit of the detector which is fastened to the base by a simple turning to the right.

The detectors have an indication led which lights continuously in case of fire detection until there is a reset signal from the panel. When we silence the sirens the LED remains lit to show us the detector that issued the alarm. The LED goes off when we RESET the panel. The indication led also flashes every 8 sec to indicate good operation.

### **ADDRESS SETTING**

To set each detector's address you have to use the device BSR-2143 photo. 1. (refer to it's instruction manual). After the address setting

mark this number to the sticker on the detector's base (ADR:XXX). Each detector must have an address with which it is recognized from the panel. It's forbidden for two devices with same addresses to be connect to the same loop.

### **OPERATION CHECK**

The operation check can be done by spraying a small amount of smoke into the detector's chamber. You can use the special smoke device A-752 of our company, or a similar device.

It is advised to conduct a good operation test every 6 months and every time the detector position is changed.

It is essential to have good air circulation inside the detector. Therefore care must be taken so that the vents of the detector are not covered.

### **NOTE**

The detectors must be placed in the ceiling on visible areas with no side obstacles and away from sides with no air circulation or strong air currents and vapors. Each detector covers almost 50 m<sup>2</sup> and the distance between two detectors must not exceed 15m. Also the detectors must be placed away from fluorescent tubes at least 50 cm.

The cables cross section must be from 0.5 to 1.5mm<sup>2</sup>.

### **ATTENTION!!**

After the device is installed, care must be taken, so that the detector vents are not blocked by anything (i.e. dust, paint). Failing to do so will prevent the smoke particles to enter the detection chamber.

*After the installation, it is the sole responsibility of the user to maintain the detector for good operation.*

## Installation procedure

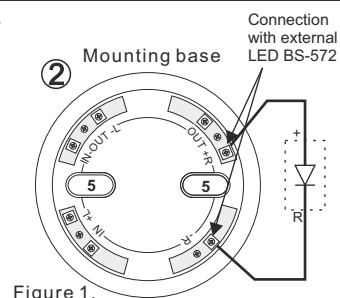
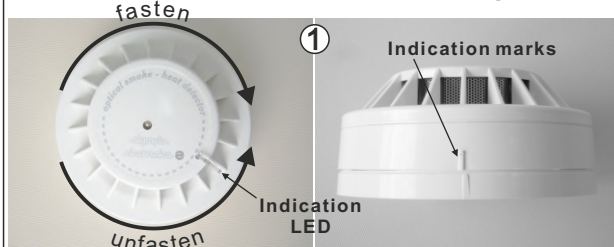


Figure 1.

1. Detach the detector from its base by turning it anticlockwise until the side marks are aligned.
2. Install the base with the included mounting parts (point 5).
3. Connect the power cables (respect to polarity) according to the installation requirements (figure 1,2).
4. Place carefully the detector, so as to align the side marks and turn it clockwise all the way. Power the device and after 3-5 seconds will be ready to operate.

### CONNECTION

1. **IN-OUT-L**: It is connected to the loop's (-L).
2. **IN+L**: It is connected to the loop's (+L).
3. **OUT+R and -R**: It is connected with BS-572.

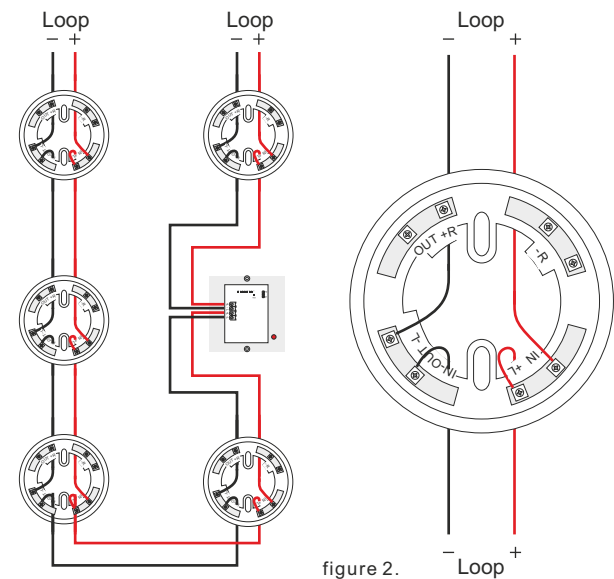


figure 2.

### Address setting with BSR-2143 (refer to its instruction manual)



photo. 1.

### Certification

The Addressable rate of rise heat detector BSR-6057/A is certified from H.E.E.Q.A.C. Also H.E.E.Q.A.C. controls the production under CPR number:

**BSR-6057/A ADDRESSABLE RATE OF RISE HEAT DETECTOR**  0848

0848-CPR-018 15  
EN-54-5: 2000 + A1: 2002  
EN-54-7: 2000 + A1: 2002 + A2: 2006

**KOLINDROS PIERIAS**  **olympia electronics**  
60061 GREECE SAFETY & SECURITY SYSTEMS

### WARRANTY

Olympia Electronics guarantees the quality, condition and operation of the goods. The period of warranty is specified in the official catalogue of Olympia Electronics and also in the technical leaflet, which accompanies each product. This warranty ceases to exist if the buyer does not follow the technical instructions included in official documents given by Olympia Electronics or if the buyer modifies the goods provided or has any repairs or re-setting done by a third party, unless Olympia Electronics has fully agreed to them in writing. Products that have been damaged can be returned to the premises of our company for repair or replacement, as long as the warranty period is valid. Olympia Electronics reserves the right to repair or to replace the returned goods and to or not charge the buyer depending on the reason of defect. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

### HEAD OFFICE

72nd km. O.N.R. Thessaloniki-Katerini  
P.C. 60061 Greece  
[www.olympia-electronics.gr](http://www.olympia-electronics.gr)  
[info@olympia-electronics.gr](mailto:info@olympia-electronics.gr)