

Place the detector carefully so that the side marks are on the same position and rotate the detector clockwise until it locks. Power the device and after 3-5 seconds it is ready for operation.

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### KITS WITH RELAY BASE FOR DETECTORS

The BASE-6012/A and BASE-6024 are produced to cooperate with the series of conventional detectors of Olympia Electronics

The base BASE-6012/A is cooperate with the series of conventional detectors of Olympia Electronics which there is a need to connect them with a 12V supply voltage.

The base BASE-6024 is cooperate with the series of conventional detectors of Olympia Electronics which there is a need to connect them with a 24V supply voltage.

The bases afford a relay which is activated in case the detector detects a fire (alarm state of the detector).

The contacts can be connected according to the requirements of the installation.

The bases can operate autonomously with an external power supply at voltages according to the table of technical characteristics.

The following KITS include the detectors with the corresponding bases with relays:

**921655009 BS-655/A/12** (The BS-655/A detector and the BASE-6012/A are included)

**921657007 BS-657/A/12** (The BS-657/A detector and the BASE-6012/A are included)

**921660008 BS-660/A/12** (The BS-660/A detector and the BASE-6012/A are included)

**921655010 BS-655/A/24** (The BS-655/A detector and the BASE-6024 are included)

**921657008 BS-657/A/24** (The BS-657/A detector and the BASE-6024 are included)

**921660009 BS-660/A/24** (The BS-660/A detector and the BASE-6024 are included)

### 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 deflection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.



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### Technical Characteristics

	BS-655/A	BS-657/A	BS-660/A
OPERATION VOLTAGE WITH BASE 6012/A		10-16V DC	
OPERATION VOLTAGE WITH BASE 6024		22-30V DC	
STANDBY CONSUMPTION WITH BASE-6012/A		7mA	
ALARM CONSUMPTION WITH BASE-6012/A		57mA	
STANDBY CONSUMPTION WITH BASE-6024		100µA	
ALARM CONSUMPTION WITH BASE-6024		30mA	
SMOKE CONCENTRATION SENSITIVITY	0,107 dB/m	0,107 dB/m	-
TEMPERATURE SENSITIVITY	-	57 °C	57 °C
CLASS	-	A1R	A1R
INDICATORS	Alarm LED		
OUTPUT	To panel / to external LED (BS-572)		
DEGREES OF COVER PROTECTION	IP40		
PRODUCED IN ACCORDANCE WITH	EN 54-7	EN 54-5, EN 54-7	EN 54-5
OPERATING TEMPERATURE RANGE	-40 έως 70 °C		
RELATIVE HUMIDITY	Μέχρι 95%		
CONSTRUCTION MATERIALS	ABS/PC		
EXTERNAL DIMENSIONS ( diameter x height )	103 x 59mm	103 x 65mm	103 x 59mm
TYPICAL WEIGHT	200 gr.	200 gr	190 gr.
GUARANTEE	2 years		

<b>BS-655/A</b> Optical smoke detector EN 54-7:2018 DoP: 921655004_59_002		 <b>EGINIO PIERIAS</b> <b>60300 GREECE</b>
<b>BS-657/A</b> Optical smoke and rate-of-rise heat detector EN 54-5:2017+A1:2018 , EN 54-7:2018 DoP: 921657002_59_002		
<b>BS-660/A</b> Rate-of-rise heat detector EN 54-5:2000+A1:2002 DoP: 921660004_59_003		



**BS-655/A/12, BS-657/A/12 & BS-660/A/12**  
**BS-655/A/24, BS-657/A/24 & BS-660/A/24**

**SMOKE DETECTORS &  
RATE OR RISE HEAT DETECTORS  
WITH RELAY BASE 12V AND 24V**

**Thank you for your trust in our products**  
**Olympia Electronics - European manufacturer**

## Package Contents

- 1 Detector
- 1 Detector Base
- 1 Mounting Accessories
- 1 Manual

## General

The user have to read carefully the following instructions, in order to be properly informed and keep them for future use.

The **BS-655/A** is a conventional smoke detector which integrates function of optical smoke detection. The detector transitions to alarm state when the concentration of smoke reaches 0.107dB/m.

The **BS-657/A** is a conventional smoke detector which integrates functions of optical smoke and heat detection. It can detect smoke and heat. The detector transitions to alarm state when the concentration of smoke reaches 0.107dB/m or when the temperature reaches 57°C. Also, the detector transitions to alarm state when the temperature rises suddenly by 32°C regardless of the initial temperature at the beginning of the sudden rise event.

The **BS-660/A** is a conventional heat detector which integrates the function of rate-of-rise heat detection. The detector transitions to alarm state when the temperature reaches 57°C. Also, the detector transitions to alarm state when the temperature rises suddenly by 32°C regardless of the initial temperature at the beginning of the sudden rise event.

They are composed by two parts. A plastic base which is placed on the ceiling and the main body of the detector which fits on the plastic base with a simple rotation to the right. The detectors have a 360° visible led and a remote led driver which are light up constantly in case of detection of fire, till cancelled from the panel. They are turned off only when a reset command is given from the panel. The indicator led blinks every 7 sec indicating the normal function.

### INSTALLATION

For spacings, heights and all mounting points consult the local/national regulation or the standard EN 54-14/2018. The detectors must be placed at least 50 cm away from fluorescent lamps. Cable cross-section should be from **0.5 to 2.5mm<sup>2</sup>**.

### MAINTENANCE & FUNCTIONAL TESTING

The detector has fault diagnosis and dust compensation functions, which automatically informs you through the onboard LED when replacement or cleaning actions are required. The indication LED blinks every 7 seconds. In normal operation it blinks 1 time, if cleaning action is required it blinks 2 times and if there is a failure it blinks 3 times. After cleaning procedure it will take about 10 minutes for detector's working indication to return to normal. These functions combined with periodic manual testing ensure maximum security level. The manual testing procedure is carried out by spraying a small amount of smoke into the detector with an testing spray or a counterpart product. It is suggested to carry out a test every 6 months or after a change in the position of the sensor. A key element of its proper function is the air to be able to freely circulate inside it. So be careful not to block the openings of the outer cover. Before the manual testing it is suggested to enable the special "walk in test" mode from the panel.

### CAUTION !!

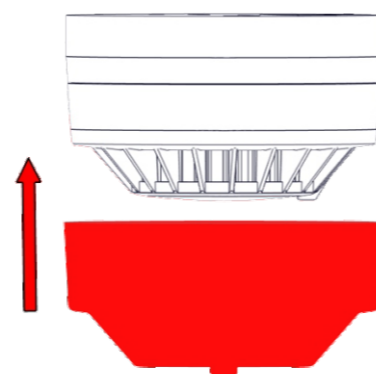
- After installation the device must not be covered with dust or be painted or anything else happen that will block the smoke to get to the sensor. Special attention must be given during the installation and the use of the device, since the user assumes full responsibility for proper operation afterwards.
- Do not unscrew the detector's cover to clean the detector or for any other action.

### Additional features of the device :

- **Integration of dynamic algorithms for noise and false alarm rejection.**
- **Automatic fault diagnosis.**
- **360° optically visible LED.**
- **Dust compensation and automatic indication when cleaning is required. Stable level of detection regardless of detector's working hours. (BS-655/A & BS-657/A)**
- **Compensation of smoke measurements based on ambient temperature which ensures high precision measurements even under extreme environmental conditions. (BS-655/A & BS-657/A)**

### UID:

In every device there is a double sticker with the UID (Unique Identifier) number. This number is unique for each device.

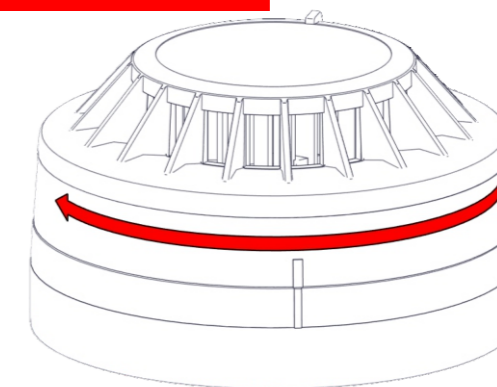


During site works place the plastic cover to the detector (only for BS-655/A & BS-657/A) as shown in the picture above to protect the device from dust.

## Indications LED Status

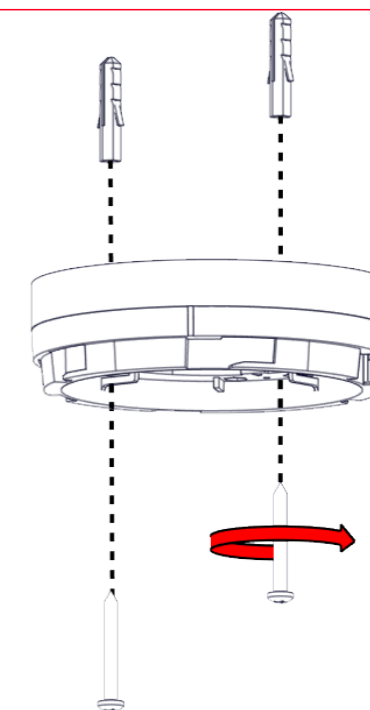
(Red LED)	Description
●	Permanently ON
○	Blinking
●	Alarm
○	Normal Operation (1 time)
○	Cleaning Action (2 times)
○	Detector Failure (3 times)

## Installation Instructions



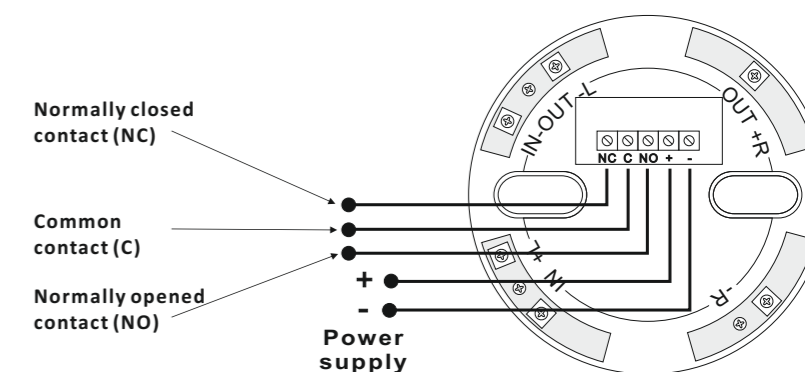
Remove the detector from its base rotating to the left till the side marks are aligned.

1



Fasten the base with the supplied mounting accessories.

2



Connect the power cables (minding the correct polarity) according to the requirements of the installation.

### Connection

If the power of the detectors is turned off, wait for 3-5 seconds before you turn the power on again.

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