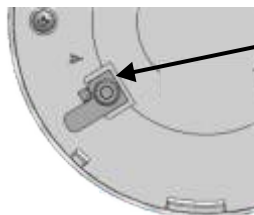
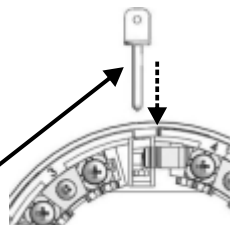


## DETECTOR BASE LOCK

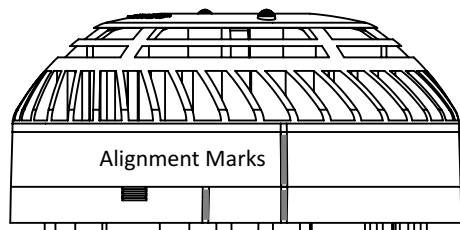


To lock detector remove pin available at terminal 4 on the underside of the sounder using a small screwdriver.

To unlock detector from its base push unlock key provided through hole available on the base side wall as shown.



## MECHANICAL SPECIFICATION



Detector Head

Detector Base

## TECHNICAL SPECIFICATIONS

<b>SUPPLY VOLTAGE</b>	Loop Powered - 17 V to 30 V DC
<b>CURRENT - QUIESCENT / SURGE</b>	450 uA max.
<b>CURRENT - DEVICE IN ALARM</b>	4 mA - Alarm LED Illuminated
<b>SENSITIVITY</b>	According to EN54-5 or/and EN54-7, EN54-17
<b>CABLE SIZE</b>	0.5-2.5 mm <sup>2</sup>
<b>RESET/STAR-UP TIMES</b>	20 seconds max.
<b>COLOUR / CASE MATERIAL</b>	White / ABS
<b>OPER. TEMPERATURE / MAX. HUMIDITY</b>	-10°C to 50°C / 95% RH Non-Condensing
<b>DIMENSIONS / WEIGHT</b>	100 mm (D) x 50 mm (H) inc. base / 144 g inc. base
<b>ORDER CODE</b>	<b>DESCRIPTION</b>
<b>ZEOS-AS-SI</b>	Analogue Addressable Smoke Detector w/ Isolator and SAM
<b>ZEOS-AS-HI</b>	Analogue Addressable Heat Detector w/ Isolator and SAM
<b>ZEOS-AS-SHI</b>	Analogue Addr. Combined Smoke & Heat Detector w/ Isolator and SAM

## LIFETIME WARRANTY

Global Fire Equipment S.A. declares that this product is free from defects in materials and workmanship and it will repair or replace any product or part thereof which proves to be defective in workmanship or materials during the life expectancy of the product. This period is determined to be no longer than 10 years starting from the date of manufacture. Please visit Global Fire Equipment's web site ([www.globalfire.pt](http://www.globalfire.pt)) for a full description of Global Fire Equipment's LIMITED WARRANTY, which, among other things, limits the duration of warranties of merchantability and fitness for a particular purpose and excludes liability for consequential damages. Acceptance of order and/or original invoice which will become part of your sales agreement. Please contact Global Fire Equipment's web site for details on how to obtain a return Merchandise Authorization Number (RMA) before returning goods to the factory. Shipment must be prepaid and Global Fire Equipment will repair or replace your returned detector.

## GLOBAL FIRE EQUIPMENT S.A.

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# ZEOS AS

## Analogue Addressable Fire Detector with Smart Addressing

The ZEOS-AS series of Analogue Addressable Detectors have been designed to be fully compatible with Global Fire Equipment's range of intelligent control panels, JUNIOR and JUNO NET.

The ZEOS-AS series detectors must always be connected to a compatible GFE Analogue Addressable Fire Alarm Control Panel. The installation must be in compliance with the control panel's system installation manual.

GFE's ZEOS-AS series is compliant to EN54-5 or/and EN54-7 and EN54-17. Consists of: combined photoelectric smoke or/and heat temperature detectors. All units are supplied with a short-circuit loop isolator.

The ZEOS-AS range of fire detectors is not addressed using a D.I.L. switch, it uses instead GFE's proprietary Smart Addressing Mechanism (SAM). The address can be set using GFE's analogue device programmer or alternatively, when used in conjunction with GFE's range of Intelligent Analogue Addressable Fire Detection Panels, GFE's automatic address setting mode ASET.

## WARNINGS

To prevent detector contamination and subsequent invalidation of warranty, the smoke detector head must remain with its protective cover fitted, until the area covered is clean and dust free. Detectors are intended for ceiling and wall mounting and should always be installed in accordance with local Fire Authority recommendations and regulations.

Do not install the detector head until the area is thoroughly cleaned of construction debris, dusts, etc. Please refer to the control panel's installation manual regarding the maximum number of detectors installed on the same loop.

**CAUTION: Do not attempt to disassemble the detector. This is a sensitive device and is not intended to be open for servicing by users. Opening the detector head will void the warranty.**

## DO NOT PAINT DETECTOR HEAD



## FEATURES

Dual LEDs for 360° visibility

Advanced detection and communication protocols

Easy installation and maintenance

Sleek low-profile housing

Durable sensor head, no need for replacement

SMD circuit board design.  
High quality and reliability guaranteed



Made in Portugal-EU

## INSTALLATION

### INSTALLING THE BASE

To ensure proper fit of the detector head to the base, all wires should be properly dressed at installation by positioning all wires flat against terminals and fastening the wires away from connector terminals. The detector base can be mounted directly onto most standard electrical junction boxes.

### INSTALLING THE HEAD

Set the desired address via D.I.L. switch on the back of the detector. Please refer to D.I.L. Switch Configuration and Address Settings sections. Align detector components using provided alignment marks on both the head and base. Align detector mark and short alignment mark on base. Fit the detector head onto the base and twist clockwise to secure it. After all detectors are installed, apply power to the control unit and activate the detection loop. Test the detectors as described below.

### TESTING

All remote signalling systems, releasing devices and extinguishing systems should be disconnected during the test period and reconnected at the conclusion of testing.

**SMOKE:** Allow smoke from a cotton wick or test smoke aerosol to enter the detector's smoke chamber for at least 10 seconds. When sufficient smoke has entered, the detector will signal an alarm. This will be indicated by the illumination of the 2 RED LEDs provided. Make sure to clear smoke out of the chamber before resetting in order to keep the detector at its current sensitivity setting.

**HEAT:** The detector to be tested should be subject to a flow of warm air at a temperature of between 65°C and 80°C. This requirement can be met by some domestic hair dryers. Switch on the warm airflow and check that the temperature is correct and stable. From a distance of several cms, direct the airflow at the guard protecting the thermistor. The detector should alarm within 60 seconds. Upon alarm immediately remove the heat source and check that the RED LEDs of the detector are illuminated. If a detector fails to activate within 60 seconds, confirm connections and programming. If necessary replace unit. **Note: After testing, check that the system is returned to normal operation. Notify the appropriate authorities that the testing procedure has been completed and the system is active again.**

### MAINTENANCE

The recommended minimum requirement for detector maintenance consists of annual cleaning of dust from the detector head using a low power vacuum cleaner. >> **DO NOT ATTEMPT TO DISASSEMBLE THE DETECTOR**

### DETECTOR BASE - LOOP CONNECTIONS

The diagram illustrates the wiring for the DETECTOR BASE. It features a circular base with four terminals labeled 1, 2, 3, and 4. Terminal 1 is connected to the LOOP RETURN (-) of the PANEL. Terminal 2 is connected to the LOOP IN/OUT of the REMOTE LED INDICATOR. Terminal 3 is connected to the LOOP IN/OUT of the next device in the loop or return to the panel. Terminal 4 is connected to the LOOP IN/OUT of the next device in the loop or return to the panel. The diagram also shows the connection of the SCREEN to the base.

**PANEL**

LOOP	RETURN	OUT
-	+	-
-	+	-

**DETECTOR BASE - LOOP CONNECTIONS**

- Loop IN/ OUT
- REMOTE LED INDICATOR
- SCREEN
- Loop IN/ OUT
- To next device in loop or return to panel
- +Loop IN/ OUT

**Note:** Positive terminal of remote indicator should be connected to terminal 4 (+ Loop IN/ OUT)

## ADDRESS PROGRAMMING

The ZEOS-AS range of Fire Detectors is SAM enabled and do not have their addresses set using switches. The address of a ZEOS-AS detector can be either programmed using GFE's device programmer or using Automatic Address Setting (ASET) which is a special install and commissioning mode that can be activated on a per loop basis whilst in INSTALLATION mode. ASET mode is only required if Smart Addressing Mechanism (SAM) is used. When used in conjunction with this mode they automatically assign their own addresses. ASET mode is only available in GFE's range of analogue addressable fire detection panels, Junior and Juno Net. ZEOS-AS can be mixed with other types of devices on the same loop. Each time a ZEOS-AS detector is programmed it takes the next free address on its loop.

ZEOS-AS range can only be used in conjunction with:

- a) Juno Net and Junior panels. Software release 3.09 and above.
- b) Juno Net Repeaters w/ loop card. Software release 3.09 and above
- c) Sub panel (incorporating SIMM module & socket). Software release 2.09 and above.

**Note:** Verify panel software version by looking at number on the sticker placed on the SIMM card.

**Note:** ZEOS-AS detectors cannot operate or be programmed when installed within loops associated with old Sub-Panel versions (i.e. Sub-Panels that do not include a SIMM card and socket).

Before starting the programming procedure, care should be taken with the following:

- a) Main Supply OK.
- b) Auxiliary Supply (Batteries) OK.
- c) Loop Supply OK.
- d) Verify the non-existence of earth faults.
- e) Verify the cable lengths for the loop.
- f) Confirm the non-existence of short or open circuits within the loop.
- g) Verify communications with standard analogue addressable devices is OK.
- h) Verify communications between Main Panel, Sub-Panels and Repeaters with integrated Sub-Panel.

Verify that all ZEOS-AS detector connections to the loop are properly made in particular those regarding polarity when detector incorporates a loop isolator. Reversal of the supply polarity can cause failure or malfunction and prevent the detector from being programmed.

### CAUTION

**Verify that there are no faults or fire conditions in the loop or system. Clear all fault and fire conditions first.**

**Reset to normal operation all devices before applying power to the panel, in particular manual call points.**

For further information on how to set the address of a ZEOS-AS fire detector please refer to [ZEOS-AS Programming and Troubleshooting Guide](#).