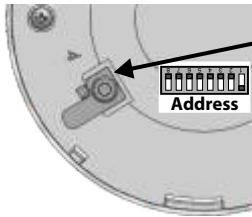
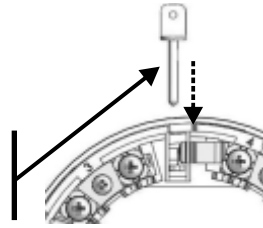


## DETECTOR BASE LOCK

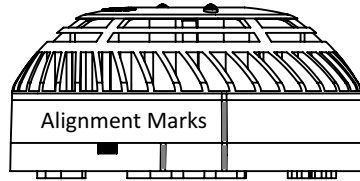


To lock detector remove pin available at terminal 4 on the underside of the sounder using a small screwdriver.

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

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

## 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.

Sítio dos Barrabés, Armazém Nave Y, Caixa Postal 908-Z, 8150-016 São Brás de Alportel - PORTUGAL  
Tel: +351 289 896 560 • Sales: [sales@globalfire.pt](mailto:sales@globalfire.pt) • Technical Support: [techs@globalfire.pt](mailto:techs@globalfire.pt) • [www.globalfire.pt](http://www.globalfire.pt)

# ZEOS AD

## Analogue Addressable Fire Detector

The ZEOS-AD 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-AD 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-AD series is compliant to EN54-5 and EN54-7 and consists of: photoelectric smoke detectors, rate of rise and fixed temperature/ heat detectors and combined smoke and heat detectors. Optionally they can be fitted with a short-circuit loop isolator.

### 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



## 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.

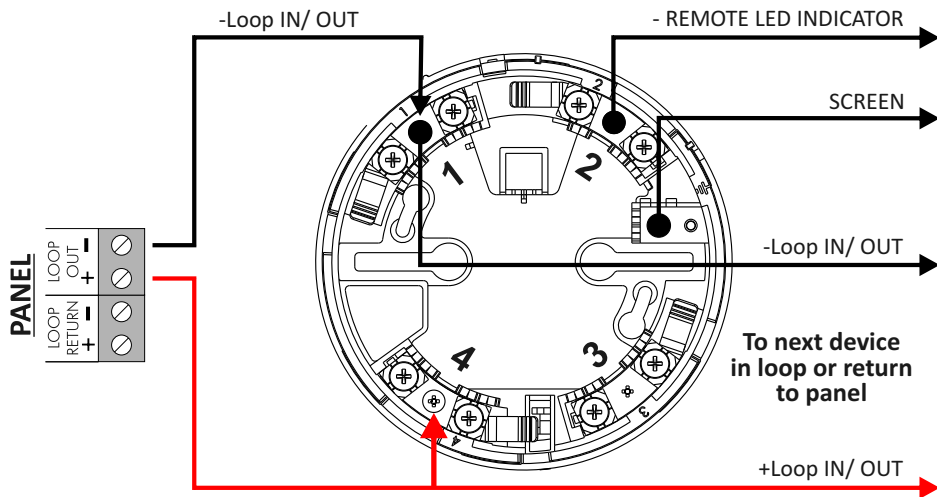
**SMOKE:** Allow smoke from a cotton wick or test smoke aerosol to enter the detector's smoke chamber for at least 10 seconds. When sufficient smoke has entered, the detector will signal an alarm. This will be indicated by the illumination of the 2 RED LEDs provided. Make sure to clear smoke out of the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

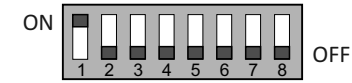
The recommended minimum requirement for detector maintenance consists of annual cleaning of dust from the detector head using a low power vacuum cleaner. >> **DO NOT ATTEMPT TO DISASSEMBLE THE DETECTOR**

## DETECTOR BASE - LOOP CONNECTIONS



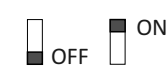
**Note:** Positive terminal of remote indicator should be connected to terminal 4 (+ Loop IN/ OUT)

## D.I.L. SWITCHES CONFIGURATION



Switches 1-7  
used to configure the module's address

Switch 8  
Not used



Address Switches binary weights  
1 on =1    4 on =8    7 on = 64  
2 on =2    5 on =16  
3 on =4    6 on =32

## ADDRESS SETTINGS

|     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     |     |     |     |     |
| 01  | 02  | 03  | 04  | 05  | 06  | 07  | 08  |
|     |     |     |     |     |     |     |     |
| 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  |
|     |     |     |     |     |     |     |     |
| 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |
|     |     |     |     |     |     |     |     |
| 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  |
|     |     |     |     |     |     |     |     |
| 33  | 34  | 35  | 36  | 37  | 38  | 39  | 40  |
|     |     |     |     |     |     |     |     |
| 41  | 42  | 43  | 44  | 45  | 46  | 47  | 48  |
|     |     |     |     |     |     |     |     |
| 49  | 50  | 51  | 52  | 53  | 54  | 55  | 56  |
|     |     |     |     |     |     |     |     |
| 57  | 58  | 59  | 60  | 61  | 62  | 63  | 64  |
|     |     |     |     |     |     |     |     |
| 65  | 66  | 67  | 68  | 69  | 70  | 71  | 72  |
|     |     |     |     |     |     |     |     |
| 73  | 74  | 75  | 76  | 77  | 78  | 79  | 80  |
|     |     |     |     |     |     |     |     |
| 81  | 82  | 83  | 84  | 85  | 86  | 87  | 88  |
|     |     |     |     |     |     |     |     |
| 89  | 90  | 91  | 92  | 93  | 94  | 95  | 96  |
|     |     |     |     |     |     |     |     |
| 97  | 98  | 99  | 100 | 101 | 102 | 103 | 104 |
|     |     |     |     |     |     |     |     |
| 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 |
|     |     |     |     |     |     |     |     |
| 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
|     |     |     |     |     |     |     |     |
| 121 | 122 | 123 | 124 | 125 |     |     |     |