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ZEOS-AS

Analogue Algorithmic Addressable Fire Detector w/ Smart Addressing

CE

MADE IN PORTUGAL - EU

GLOBAL FIRE EQUIPMENT S.A.

Sítio dos Barrabés, Armazém Nave Y, Caixa Postal 908-Z, 8150-016 São Brás de Alportel - PORTUGAL

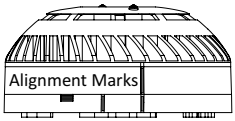
Tel: **+351 289 896 560** • Sales: **sales@globalfire.pt** • Technical Support: **techs@globalfire.pt** • www.**globalfire.pt**

TECHNICAL SPECIFICATIONS

SUPPLY VOLTAGE	Loop Powered - 17 V to 30 V DC
CURRENT - QUIESCENT / SURGE	450 uA max.
CURRENT - DEVICE IN ALARM	4 mA - Alarm LED Iluminated
SENSITIVITY	According to EN54-5 or/and EN54-7, EN54-17
CABLE SIZE	0.5-2.5 mm²
RESET/START-UP TIMES	20 seconds max.
COLOUR / CASE MATERIAL / MAX. HUMIDITY	White / ABS / 95% RH Non-Condensing
NORMAL / TRANSIENT OPER. TEMPERATURE	0°C to 50°C / -10°C to 85°C
DIMENSIONS / WEIGHT	100 mm (D) x 50 mm (H) inc. base / 144 g inc. base

ORDER CODE	CERTIFICATE	DESCRIPTION
ZEOS-AS-S	1328-CPR-0526	ANALOGUE ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR WITH SMART ADDRESSING
ZEOS-AS-H	1328-CPR-0527	ANALOGUE ADDR. TEMPERATURE/HEAT DETECTOR WITH SMART ADDRESSING
ZEOS-AS-SH	1328-CPR-0525	ANALOGUE ADDR. COMBINED SMOKE & HEAT DETECTOR WITH SMART ADDR.
ZEOS-AS-SI	1328-CPR-0609	ANALOGUE ADDR. PHOTOELECTRIC SMOKE DETECTOR W/ ISOLATOR & SMART ADDR.
ZEOS-AS-HI	1328-CPR-0608	ANALOGUE ADDR. TEMPERATURE/HEAT DETECTOR W/ ISOLATOR & SMART ADDR.
ZEOS-AS-SHI	1328-CPR-0524	ANALOGUE ADDR. COMBINED SMOKE & HEAT DETECTOR W/ ISOLATOR & SMART ADDR.

MECHANICAL SPECIFICATION



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

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.

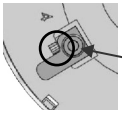
SMOKE: Allow smoke from a cotton wick or test smoke aerosol to enter the detector's smoke chamber for at least 10 seconds. When sufficient smoke has entered, the detector will signal an alarm. This will be indicated by the illumination of the 2 Red LEDs provided. Make sure to clear smoke out of the chamber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

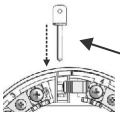
MAINTENANCE

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

BASE LOCK

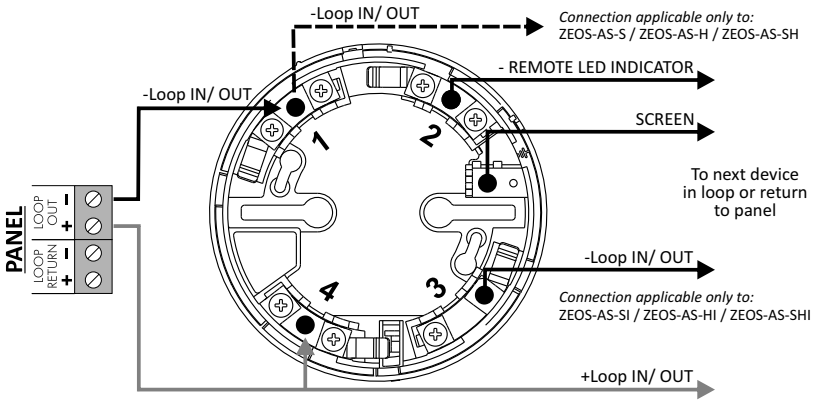


To lock beacon remove pin available at terminal 4 on the underside of the beacon using a small screwdriver.



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

DETECTOR BASE - LOOP CONNECTIONS



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 conjuction 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.*

NOTES:

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