ZEOS-AS

ANALOGUE ADDRESSABLE FIRE DETECTORS WITH SMART ADDRESSING

MANUAL 250117

CE 15

MADE IN PORTUGAL - EU

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RoHS Compliant

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop Powered - 17V to 30V DC
CURRENT - QUIESCENT / SURGE	450uA max.
CURRENT - DEVICE IN ALARM	4mA - Alarm LED Iluminated
SENSITIVITY	According to EN54-5 or/and EN54-7 and EN54-17
CABLE SIZE	0.5-2.5 mm²
RESET/START-UP TIMES	20 seconds max.
IP RATING	IP20
COLOUR / CASE MATERIAL	White or Black / ABS
MAX. HUMIDITY	95% RH Non-Condensing
NORMAL / TRANSIENT OPER. TEMPERATURE	0°C to 50°C / -10°C to 85°C
DIMENSIONS	100 (D) x 46.4 (H) mm included base
WEIGHT	92g without base and 144g inc. base
COMPATIBILITY	All GFE addressable systems
INSTALLATION	Ceiling mounting / Indoor

For EN54-13 compliance, please check the control panel manual specifications.

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

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.

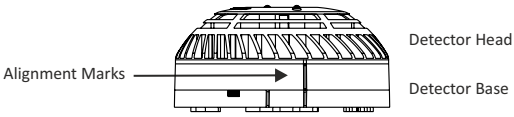
HEAT: The detector to be tested should be subject to a flow of warm air at a temperature of between 65°C and 80°C. This requirement can be met by some domestic hair dryers. Switch on the warm airflow and check that the temperature is correct and stable. From a distance of several cms, direct the airflow 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.

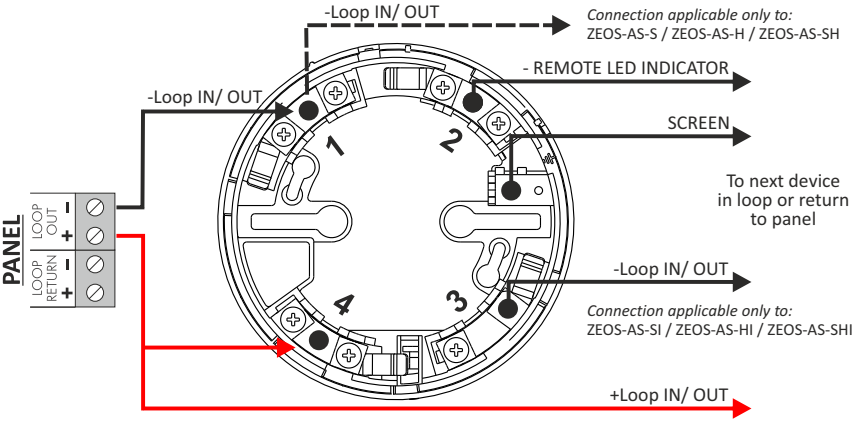
MAINTENANCE
The recommended minimum requirement for detector maintenance consists of annual cleaning of dust from the detector head using a low power vacuum cleaner.

DO NOT ATTEMPT TO DISASSEMBLE THE DETECTOR

MECHANICAL SPECIFICATION



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 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. 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.

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 the 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.