



# ZEOS-AD

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## Analogue Algorithmic Addressable Fire Detector

MADE IN PORTUGAL - EU

### GLOBAL FIRE EQUIPMENT S.A.

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### 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 Illuminated
SENSITIVITY	According to EN54-5 and EN54-7
CABLE SIZE	0.5-2.5 mm <sup>2</sup>
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-AD-S	1328-CPR-0521	ANALOGUE ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR
ZEOS-AD-H	1328-CPR-0520	ANALOGUE ADDRESSABLE TEMPERATURE/HEAT DETECTOR
ZEOS-AD-SH	1328-CPR-0519	ANALOGUE ADDR. COMBINED SMOKE & HEAT DETECTOR
ZEOS-AD-SI	1328-CPR-0607	ANALOGUE ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR WITH ISOLATOR
ZEOS-AD-HI	1328-CPR-0610	ANALOGUE ADDRESSABLE TEMPERATURE/HEAT DETECTOR WITH ISOLATOR
ZEOS-AD-SHI	1328-CPR-0492	ANALOGUE ADDR. COMBINED SMOKE & HEAT DETECTOR WITH ISOLATOR

### 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.

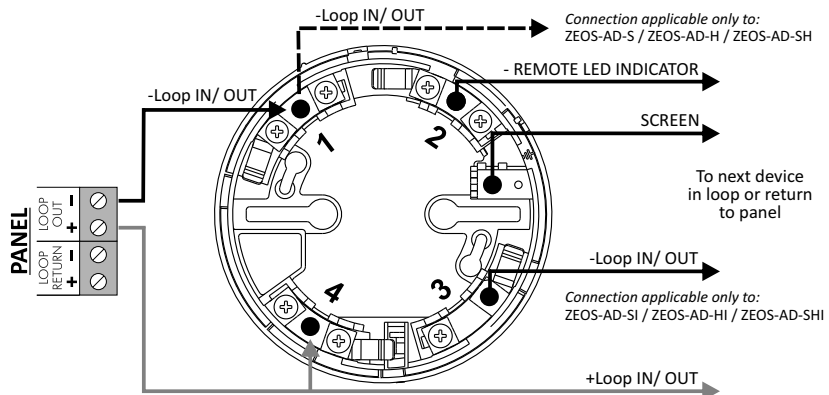
**INSTALLING THE HEAD** - Align detector components using provided alignment marks on both the head and base. Align detector mark and short alignment mark on base. Fit the detector head onto the base and twist clockwise to secure it. After all detectors are installed, apply power to the control unit 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.

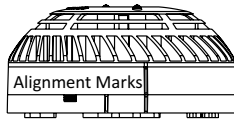
**MAINTENANCE** - The recommended minimum requirement for detector maintenance consists of annual cleaning of dust from the detector head using a low power vacuum cleaner. >> **DO NOT ATTEMPT TO DISASSEMBLE THE DETECTOR**

### DETECTOR BASE - LOOP CONNECTIONS



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

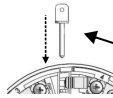
# MECHANICAL SPECIFICATION



Detector Head

Detector Base

## BASE LOCK



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

## 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			