Product data sheet

ZP720-3P

ADDR. HEAT DET. PW

General

The ZP720-3P addressable thermal detector is a POLAR WHITE, thermistor controlled device that responds to changes in its ambient temperature. The device provides a reliable response to fires in areas where environmental conditions may prohibit the use of smoke detectors.

The sensitivity of each detector is set by the ZP control panel and can be adjusted between four levels ranging between 58°C and 75°C - either manually or automatically on a timed basis. At sensitivity level two, the ZP720-3 fully meets the requirements of EN54 Pt 5 (grade 1) and is approved by several international approval bodies. Temperature levels are continuously sensed by the unit and transmitted via the ZP wiring loop as electronic signals, which are assessed and verified by the control panel prior to any alarm decision being taken.

Automatic self test

Detector sensitivity, calibration and self test are carried out automatically by the ZP system. Removal or replacement of an incorrect sensing device will be identified by the system and shown as a fault.

Up to 127 sensing devices may be connected to each of the control panel loops. All loop devices incorporate switch settings enabling them to be given a unique address, which is polled by the panel every two seconds.

Locking base option

The low profile moulding together with either surface or recessed bases makes the unit ideal for both commercial and industrial interiors. A red LED indicator situated on the sensor moulding, flashes to indicate when the unit is in alarm.

For ease of removal, detectors plug into a range of base units by a simple twist and lock action. A site selectable option is provided to lock the detector into its base. Once applied, the unit can only be removed by means of a special tool.

Space for address labels is provided on detector and base mouldings ensuring that units are replaced in their correct location and that address numbers can be identified from floor level.

Details

- Analogue sensing - reduces false and unwanted alarms
- Addressable - system knows the status and location of every sensor
- Automatic self test
- EN54 Part 5 approved and CPD certified

ZP720-3P
ADDR. HEAT DET. PW

Technical specifications

General

Status indication	Alarm LED (red)
Compatibility	All ZP7 addressable systems

Electrical

Operating voltage	Loop 19.5 to 20.5 V, max. line loss 4V
Current consumption	600µA (quiescent) 700µA (alarm)

Detection

Detection principle	Thermistor
Coverage area	50m² (subject to local codes)

Physical

Physical dimensions	106 x 52 mm (Ø x H)
Net weight	85 g (excluding base)
Colour	Polar white
Material (body)	Moulded ABS

Environmental

Operating temperature	-10 to +85°C
Storage temperature	-20 to +70°C
Relative humidity	20 to 95% noncondensing
Environment	Indoor
IP rating	IP32

Standards & regulation

Certification	EN54-5

Mounting

	Plugs into surface or semi recessed base

Wiring

	2 core loop or spur

Monitoring

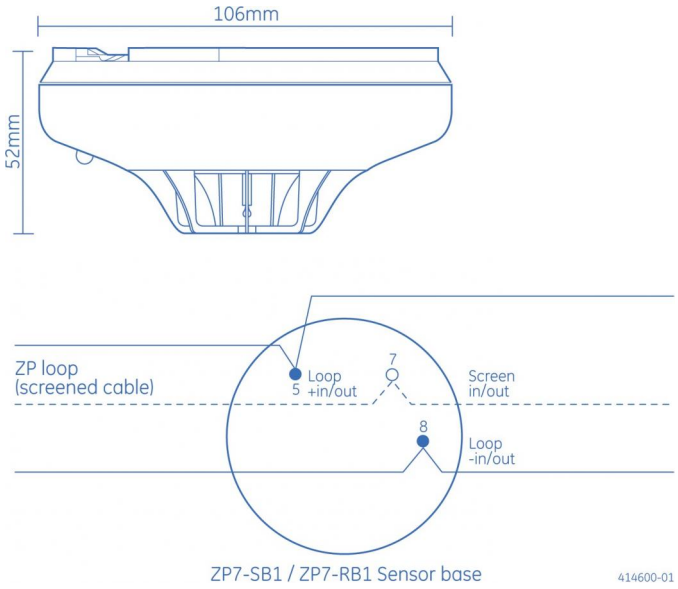
	Open/short circuit, removal & device type.

Addressing method

	7 way dipswitch

EMC

	CE marked (EEC89/336)



Last updated on 19 November 2019 - 11:14

Product data sheet

ZP7-SB1-P

Surface Mount Detector Base (Polar White)

General

The ZP7-SB1-P is a standard, POLAR WHITE mounting base allowing any ZP700/ZX800 series addressable detector to be removed or replaced without disconnecting loop wiring from detector terminals. The detectors plug into the base with a simple twist and lock action, allowing quick and easy removal for cleaning and servicing, or re-selection of the device type should the usage of the protected area change.

Forming an integral part of the overall detector assembly, this standard base is provided with slots for screw fixing direct to ceiling structures, to auxiliary wiring plates, or conduit boxes with screw fixing centres between 50 mm and 90 mm.

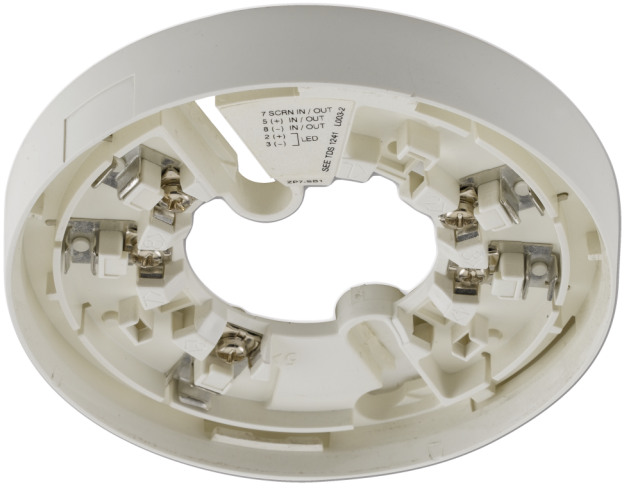
Robust wiring terminals

The base features robust wiring terminals with captive clamping washers to ensure secure wiring termination. They are of shallow design with ample space to accommodate cables of all types. Terminals are provided inside the moulding for loop connections and the termination of cable screening. Provision is also made for the connection of a remote LED when required.

Automatic locking option

In order to prevent unauthorised removal of a detector from its base, an automatic locking breakout is incorporated into all detector mouldings. If the breakout is removed, detectors can only be released from their bases by use of a special tool. The locking facility is an easily applied option often implemented on site at the system commissioning stage.

Matching spaces for address labels are provided on detector and base mouldings ensuring that when removed, they are replaced in the correct location. The address number facility also enables detectors to be easily identified when viewed from floor level.



Details

- Common to all ZP7 series detectors
- Automatic locking option
- Address identification label
- Easy to install

ZP7-SB1-P

Surface Mount Detector Base (Polar White)

Technical specifications

General

Compatibility	ZP7 Series systems
Connectivity	2 core loop or spur

Electrical

Operating voltage	16 to 22 VDC
Communication voltage	20 V

Physical

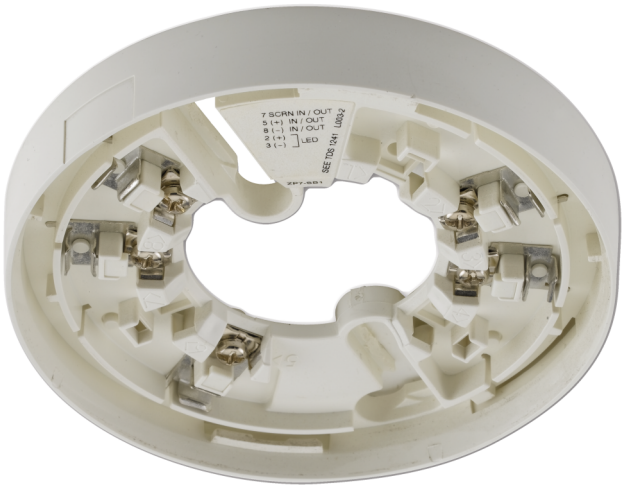
Physical dimensions	108 x 18 mm (Ø x H)
Net weight	52 g
Colour	Polar white
Mounting type	Back box, Ceiling mount
Cable entries	1
Material (body)	Moulded ABS
No. of cable cores	2
Terminals	5 (Loop +ve in/out, Loop -ve in/out, Cable screen continuity, Remote LED +ve, Remote LED -ve)

Environmental

Vandal proof	No
Operating temperature	-10ºC to +75ºC
Relative humidity	20 to 95% noncondensing
Environment	Indoor
IP rating	IP42 (EN60529)

Standards & regulation

Compliancy	CE, REACH, RoHS 2, WEEE
Certification	CPR
Standards	EN54 (with detector)
Environmental	EEC89/336



Last updated on 13 August 2019 - 10:42

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CE

Notified body Nº 0370

ENAC
CERTIFICACIÓN
Nº OC-P/009

CERTIFICATE

Nr. 0370-CPR-1698

CERTIFICATE OF CONSTANCY OF PERFORMANCE

In compliance with Regulation *305/2011/EU* of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product:

FIRE DETECTION AND FIRE ALARM SYSTEMS. PART 5: HEAT DETECTORS. POINT DETECTORS. POINT HEAT DETECTOR. TRADEMARK ZITON ZP720-3P AND TRADEMARK EDWARDS EA20E-3

Produced by:

UTC FIRE & SECURITY B.V.
KELVINSTRAAT, 7
6003 DH WEERT (NETHERLANDS)

And produced in the manufacturing plant:

GULF SECURITY TECHNOLOGY CO. LTD.
No. 80 CHANGJIANG EAST ROAD, QETDZ, QINHUANGDAO, HEBEI, CHINA 066004

This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performances described in Annex ZA of the standard

EN 54-5:2000, EN 54-5:2000/A1:2002

under system 1 are applied and that **the product fulfils all the prescribed requirements set out above.**

This certificate was first issued on 28th March 2014 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.

Bellaterra, 28th March 2014

Applus
LGAI Technological Center, S.A.

Jordi Brufau Redondo
General Manager

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LGAI Technological Center, S.A.

Xavier Ruiz Peña
Product Conformity B.U., Managing Director

This document is not valid without its technical annex, whose number coincides with the number of certificate.

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TECHNICAL ANNEX 0370-CPR-1698

CERTIFICATE OF CONSTANCY OF PERFORMANCE

Annexes according to EN 54-5: 2000 and EN 54-5: 2000/A1: 2002

Essential characteristics	Clauses in this European Standard	Mandated level(s) or class(es)
Classification	4.2	A1 - A2
Position of heat sensitive elements	4.3	PASS
Individual alarm indication	4.4	PASS
Connection of ancillary devices	4.5	PASS
Monitoring of detachable detectors	4.6	PASS
Manufacturer's adjustments	4.7	PASS
On-site adjustment of response behaviour	4.8	PASS
Marking	4.9	PASS
Data	4.10	PASS
Additional requirements for software controlled detectors	4.11	NA
Directional dependence	5.2	PASS
Static response temperature	5.3	PASS
Response times from typical application temperature	5.4	PASS
Response times from 25 °C	5.5	PASS
Response times from high ambient temperature (dry heat operational)	5.6	PASS
Variation in supply parameters	5.7	PASS
Reproducibility	5.8	PASS
Cold (operational)	5.9	PASS
Dry heat (endurance)	5.10	PASS
Damp heat, cyclic (operational)	5.11	PASS
Damp heat, steady state (endurance)	5.12	PASS
Sulfur dioxide (SO2) corrosion (endurance)	5.13	PASS
Shock (operational)	5.14	PASS
Impact (operational)	5.15	PASS
Vibration, sinusoidal (operational)	5.16	PASS

PASS; NPD = No Performance Determined, NA = Not Apply

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TECHNICAL ANNEX 0370-CPR-1698

Annexes according to EN 54-5: 2000 and EN 54-5: 2000/A1: 2002

Essential characteristics	Clauses in this European Standard	Mandated level(s) or class(es)
Vibration, sinusoidal (endurance)	5.17	PASS
Electromagnetic compatibility (EMC), immunity tests (operational)	5.18	PASS
Test for suffix S detectors	6.1	NA
Test for suffix R detectors	6.2	NA

Standard mounting base:
ZP7-SB1 (Ziton)
ASBE-2 (Edwards)

PASS; NPD = No Performance Determined, NA = Not Apply