Product data sheet

ZP730-2P

ZP7 Series Addressable Optical Detector, Polar White.

Reliable sensing for most fire alarm applications

Designed for early response to slow burning, smoldering fires, the ZP730-2P is a POLAR WHITE, addressable smoke detector developed to provide reliable sensing for most fire alarm applications. The detector's proven stability in air movement associated with air conditioning systems has made it a popular selection for modern building interiors.

Operating on light scatter principles, the ZP730-2 fully meets the sensitivity requirements of EN54-7 and is approved by several international approval bodies.

Automatic self test

False and unwanted alarms are virtually eliminated - smoke levels are continuously sensed by the unit and transmitted via the ZP wiring loop as electronic signals. These are assessed and verified by the control panel prior to any alarm decision being taken.

Installed as part of a ZP addressable system, 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 assigned a unique address that is polled by the panel every two seconds.

Sensor 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. Sophisticated auto contamination adjustment compensates for any drift in performance due to dirt in the sensing chamber.

Locking base option

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

A red LED indicator situated on the sensor molding flashes to indicate when the unit is in alarm. Space for address labels is provided on sensor and base moldings, ensuring units are replaced in their correct location and address numbers can be identified from floor level.

Details

- Responds to slow burning fires
- EN54-7 and CPR certified
- Analogue sensing - reduces false and unwanted alarms
- Addressable - system knows the status and location of every sensor
- Alarm verification, self test, auto contamination adjustment

ZP730-2P

ZP7 Series Addressable Optical Detector, Polar White.

Technical specifications

General

Status indication	Alarm LED (red)
User interface	LEDs
Compatibility	ZP7 Series Systems
Connectivity	2 Core loop or spur & remote indicator
Addressing method	DIP Switches

Electrical

Power supply type	Loop powered
Operating voltage	19.5 to 20.5 VDC 4 V (Max. line loss)
Current consumption	<600 µA (Quiescent) <700 µA (Active)

Detection

Detection principle	Photo electric light scatter
Monitoring	Device type
Coverage area	100 m²
Zone length	Cable dependant

Output

Output quantity	1
Output type and rating	Remote indicator
Programmable	No
Remote alarm output	Yes

Physical

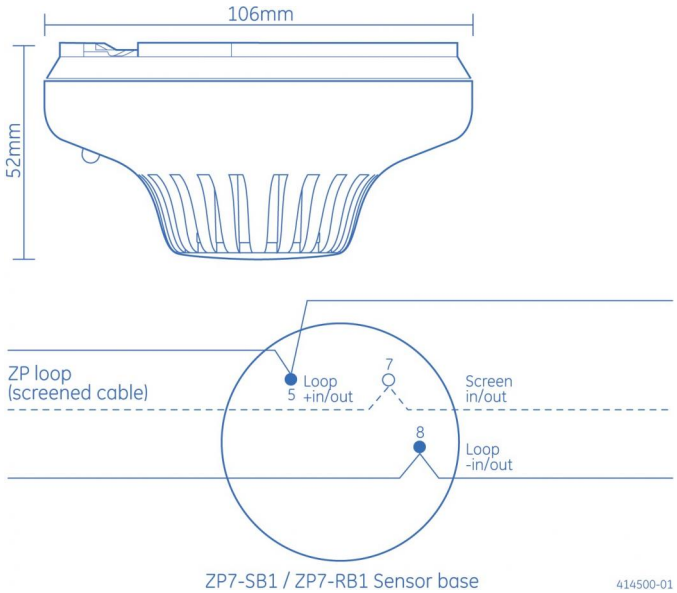
Physical dimensions	106 x 52 mm (Ø x H)
Net weight	105 g (excluding base)
Colour	Polar white
Mounting type	Base mount, Ceiling mount, Recessed mount
Material (body)	Moulded ABS
No. of cable cores	2

Environmental

Vandal proof	No
Operating temperature	-10 to +75°C
Storage temperature	-20 to +70°C
Relative humidity	20 to 95% noncondensing
Environment	Indoor
IP rating	IP32

Standards & regulation

Compliancy	CE, REACH, RoHS 2
Certification	EN54-7
Environmental	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.

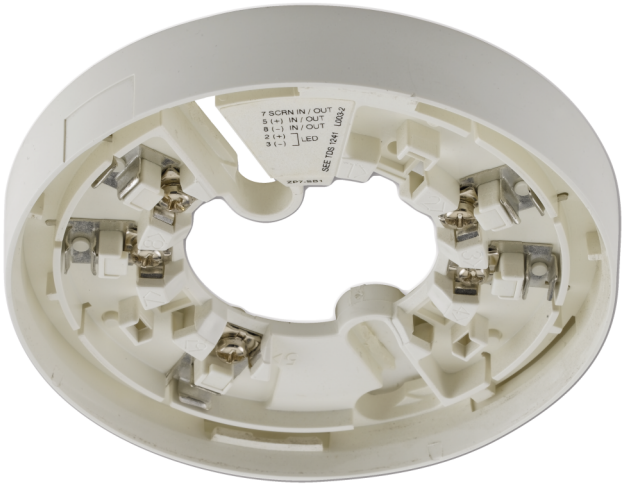
Robust wiring terminals

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

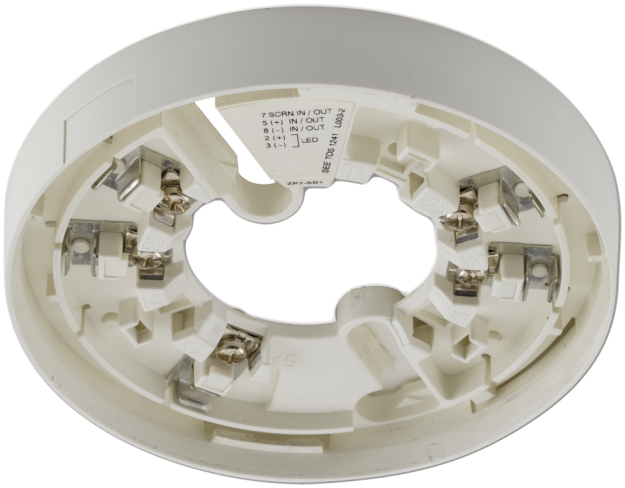
Physical dimensions	108 x 18 mm (Ø x H)
Net weight	52 g
Colour	Polar white
Mounting type	Back box, Ceiling mount
Cable entries	1
Material (body)	Moulded ABS
No. of cable cores	2
Terminals	5 (Loop +ve in/out, Loop -ve in/out, Cable screen continuity, Remote LED +ve, Remote LED -ve)

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

LGAI Technological Center, S.A.
Campus de la UAB
Apartado de Correos 18
E - 08193 Bellaterra (Barcelona)
T +34 93 567 20 00
F +34 93 567 20 01
www.applus.com

Applus

CE

Notified body Nº 0370

ENAC
CERTIFICACIÓN
Nº OC-P/009

CERTIFICATE

Nr. 0370-CPR-1699

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 7: SMOKE DETECTORS - POINT DETECTORS USING SCATTERED LIGHT, TRANSMITTED LIGHT OR IONIZATION.
ADRESSABLE OPTICAL SMOKE DETECTOR. TRADEMARK ZITON ZP730-2P, TRADEMARK ZITON ZP730-2B, TRADEMARK CHUBB ZP730-2S30 AND TRADEMARK EDWARDS EA30E-2

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 54-7:2000, EN 54-7:2000/A1:2002, EN 54-7:2000/A2:2006

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

Applus
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.

LGAI

LGAI Technological Center, S.A.
Campus UAB s/n
E - 08193 Bellaterra (Barcelona)
T +34 93 567 20 00
F +34 93 567 20 01
www.appluslaboratories.com

Applus

TECHNICAL ANNEX 0370-CPR-1699

CERTIFICATE OF CONSTANCY OF PERFORMANCE

Annexes according to EN 54-7:2000, EN 54-7:2000/A1:2002 and EN 54-7:2000/A2:2006

Essential characteristics	Clauses in this European Standard	Mandated level(s) or class(es)
Individual alarm indication	4.2.	PASS
Connection of ancillary devices	4.3.	PASS
Monitoring of detachable detectors	4.4.	PASS
Manufacturer's adjustments	4.5.	PASS
On-site adjustment of response behaviour	4.6.	PASS
Protection against the ingress of foreign bodies	4.7.	PASS
Response to slowly developing fires	4.8.	PASS
Marking	4.9	PASS
Data	4.10.	PASS
Additional requirements for software controlled detectors	4.11.	NA
Repeatability	5.2.	PASS
Reproducibility	5.4.	PASS
Variation in supply parameters	5.5.	PASS
Air movement	5.6.	PASS
Dazzling	5.7.	PASS
Dry heat (operational)	5.8.	PASS
Cold (operational)	5.9.	PASS
Damp heat, steady state (operational)	5.10.	PASS
Damp heat, steady state (endurance)	5.11.	PASS
Sulfur dioxide (SO2) corrosion (endurance)	5.12.	PASS
Shock (operational)	5.13.	PASS
Impact (operational)	5.14.	PASS

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

LGAI

LGAI Technological Center, S.A.
Campus UAB s/n
E - 08193 Bellaterra (Barcelona)
T +34 93 567 20 00
F +34 93 567 20 01
www.appluslaboratories.com

Applus

Technical Annex Ed.1
28/03/2014

TECHNICAL ANNEX 0370-CPR-1699

CERTIFICATE OF CONSTANCY OF PERFORMANCE

Annexes according to EN 54-7:2000, EN 54-7:2000/A1:2002 and EN 54-7:2000/A2:2006

Essential characteristics	Clauses in this European Standard	Mandated level(s) or class(es)
Vibration, sinusoidal (operational)	5.15.	PASS
Vibration, sinusoidal (endurance)	5.16.	PASS
Electromagnetic compatibility (EMC), immunity tests (operational)	5.17.	PASS
Fire sensitivity	5.18.	PASS

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

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