Product Data

ZITON

PS1242.2

The ZP710-2 is an ionization smoke sensor, designed to provide reliable sensing of both visible and invisible products of combustion from fast burning fires. The sensors advanced design and proven response make it effective in risk areas where materials such as oil, spirits, wood or paper may be stored.

Featuring an advanced dual chamber single source design, the ZP710-2 fully meets the sensitivity requirements of European Standard, EN 54 Pt 7 and is approved by several international approval bodies.

Installed as part of the ZP3 analogue addressable system, up to 127 sensing devices can 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.

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, which are assessed and verified by the control panel prior to any alarm decision being taken.

Sensor sensitivity, calibration and self-test are carried out automatically by the ZP3 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.

Whilst effective in operation the ZP710-2 is unobtrusive when installed. 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 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.

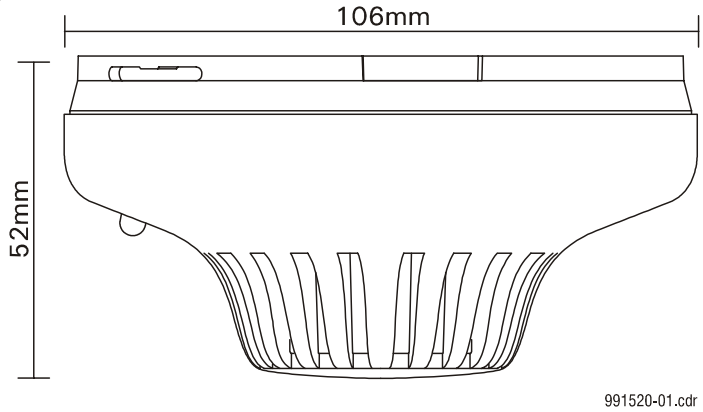
Space for address labels is provided on sensor and base mouldings - ensuring units are replaced in their correct location and address numbers can be identified from floor level.

ZP710-2

Analogue Ionization Smoke Sensor

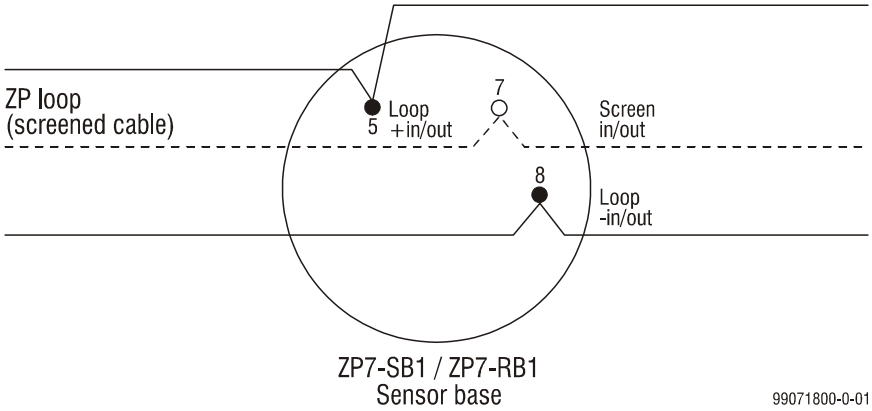
- **Senses products of combustion from fast burning fires**
- **Complies to EN 54 Pt7**
- **Analogue sensing - reduces false and unwanted alarms**
- **Addressable - system knows the status and location of every sensor**
- **Alarm verification, self test, auto contamination adjustment**

Dimensions



Note: Dimensions shown without base.

Wiring Diagram



Note: Remote LED should be connected between terminals +2 and -3

Specification

CE

Model No.	ZP710-2
Specification	EN54 Pt7
Description	Analogue ionization smoke sensor
Sensitivity	0.8Y (at sensitivity level 2)
Compatibility	All ZP analogue systems
Mounting	Plugs into surface or semi recessed base
Area Coverage	100m^2, subject to local codes
Wiring	2 core loop or spur
Monitoring:	
	Open and short circuit fault. Sensor removal and device type.
Indication	Alarm LED (red)
Operating voltage	Address line pulsed 20V (19.5V to 20.5V). Max line less 4V
Current (quiescent)	600μA
Current (alarm)	700μA
Addressing Method	7 way DIP switches in head

Detection principle	Dual chamber, source <1 μC Am241
Environmental:	
Application	Indoor use
EN60529 rating	IP32
Temp range	-10^{O}C to +75^{O}C
Humidity range	20% to 95% RH (non condensing)
EMC	CE marked (EEC89/336)
Construction:	
Material	Moulded ABS
Dimensions	106mm (dia) x 52mm (h) (excluding base)
Height:	(from ceiling with base)
	ZP7-SB1 surface base - 60mm
	ZP7-RB1 recessed based - 38mm
Colour	White
Weight	105g (without base)

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