

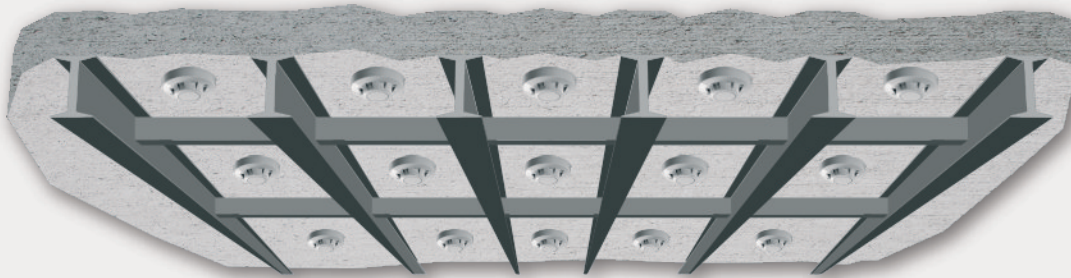
The Ultimate Solution for Void Fire Detection

British Standard Design requirements...

- Install AFD to voids greater than 800mm
- Treat downward projections exceeding 10% of the void depth as walls

The traditional method -

Conventional Void Detection using multiple 'point-detectors' ▼



- ⊖ High cost of installation
- ⊖ Access Panels required for installation and maintenance
- ⊖ Not maintenance friendly

BS5839-Part 1:2017 states:

“22.2d) If the system Category is such that automatic fire detection should be provided in any area that contains a horizontal void of 800 mm or more in height, automatic fire detection should also be provided in the void.”

“22.3k) Ceiling obstructions, such as structural beams, deeper than 10% of the overall ceiling height should be treated as walls [see Figure 11a)].

NOTE 11 Within horizontal voids, beams or obstructions that are deeper than 10% of the overall depth of the void regardless of whether the void is above the ceiling or below the floor, ought to be treated as walls that subdivide the void.”

The VoidAlert™ method



VoidAlert™ offers the following benefits:

- ☺ Very cost-effective
- ☺ Simple to install
- ☺ No access panels required
- ☺ Void does not require ongoing access for maintenance!
- ☺ Caters for unexpected downstands or partitions with virtually no cost implications



Void detection is a fraught issue, especially on new-build projects.

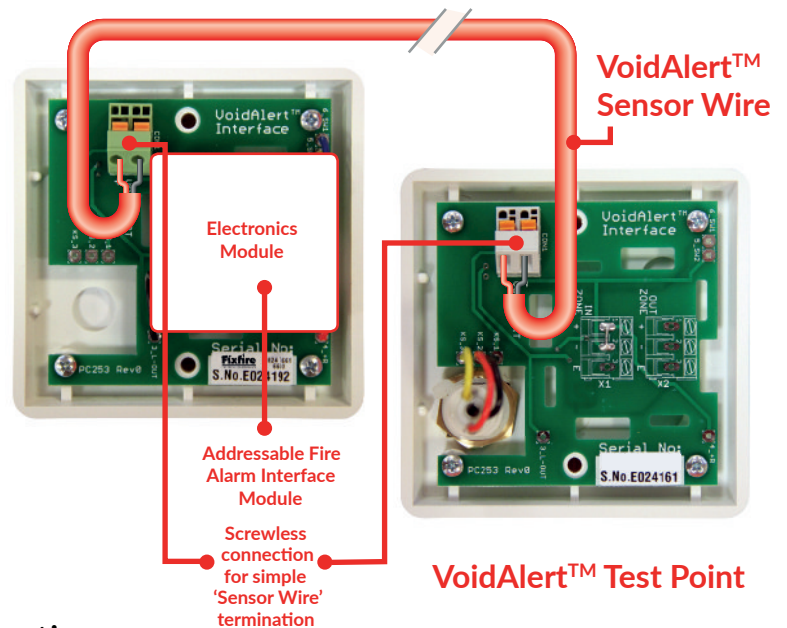
From a design perspective it is difficult to predict the amount of detection required and invariably, providing access for ongoing maintenance is a challenge.

VoidAlert™ heat sensitive sensor-wire is installed through the protected area between the VoidAlert Remote Indicator and VoidAlert™ Test Point. The Test Point is typically installed in an accessible location to facilitate ongoing engineer maintenance.

The VoidAlert™ 'Test-Point' incorporates a keyswitch with 'normal' and 'test' positions. Operation of the key switch tests the system for both 'Open Circuit' and 'Fire' conditions. In order to fault test the sensor-wire, the 'test' mode key position is selected and a simulated fire signal is generated to activate the Fire Alarm System. VoidAlert™ can be interfaced with all types of Fire Alarm System including conventional and addressable.

The VoidAlert™ Remote Indicator illuminates when the system is activated.

VoidAlert™ Remote Indicator



VoidAlert™ Sensor Wire Technical Information

Part No	Description	Alarm Temperature	Maximum Ambient Temperature	Minimum Operation Temperature	Minimum Installation Temperature	Outer diameter	Manufacturer Approval
VA/SW70	70°C Sensor Wire	70°C	45°C	minus 40°C	minus 10°C	3.5-4.5mm	UL Listed
VA/SW90	90°C Sensor Wire	90°C	70°C	minus 40°C	minus 10°C	3.5-4.5mm	UL Listed

VoidAlert™ Technical Information

Part No	Description	Face plate measurement	Depth	Flush Mounting requirement	Surface Mounting requirement
VA/TP	VoidAlert™ Test Point complete with 2 no Keys	86mm x 86mm	20mm	Minimum 35mm KO Box	Minimum 32mm Surface PVC Box
VA/RI/C470	VoidAlert™ Remote Indicator, conventional version with 470ohm firing resistor.	86mm x 86mm	20mm	Minimum 35mm KO Box	Minimum 32mm Surface PVC Box
VA/RI/XP95	Remote Indicator, XP95 version	86mm x 86mm	20mm	Minimum 35mm KO Box	Minimum 32mm Surface PVC Box

Variants are available for most ranges of Fire Alarm System, please enquire for details.



Visit our website
www.fixfire.co.uk



Head Office
Mayflower House
Bodmin Road
Wyken
Coventry CV2 5DB

East Midlands & North East
(Regional Office)
Systems House
Old Station Close
Shephed LE12 9NJ