Context Plus XP95 Analogue Addressable Multisensor Detector

Product code: 55000-885IMC IMC-885-DS-1

Brand Information

The Context Plus XP95 range of analogue addressable fire detectors uses tried and trusted technology to give the best performance, and has unique features that benefit the installer and the end user. It is suitable for medium-to-large applications with simple installation requirements. As it operates using digital communication, Context Plus XP95 has a high immunity from corruption, and is, therefore, often preferred in a large system where life safety is critical. Context Plus XP95 products are frequently used in commercial, industrial, financial, government, IT/telecoms and healthcare applications.

Operation

The Context Plus XP95 multisensor detector contains an optical smoke sensor and a thermistor temperature sensor whose outputs are combined to give the final analogue value. The multisensor construction is similar to that of the optical detector but uses a different lid and optical mouldings to accommodate the thermistor temperature sensor. The sectional view (Fig.15) shows the arrangement of the optical chamber and thermistor. The signals from the optical smoke sensing element and the temperature sensor are independent, and represent the smoke level and the air temperature respectively in the vicinity of the detector. The detector's microcontroller processes the two signals. The processing algorithms in the

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multisensor incorporate drift compensation. The control panel must not have a drift compensation algorithm enabled. The sensitivity of the detector is considered the optimum for most general applications since it offers good response to both smouldering and flaming fires. Note: in-situ testing of the multisensor should be carried out as for smoke detectors.

Application

The choice of detector from the Context Plus XP95 range follows the well established principles of system design. That is, the optimum detector type will depend on the type of fire risk and fire load, and the type of environment in which the detector is sited. For general use, smoke detectors are recommended since these give the highest level of protection. Smoke detectors from the Context Plus XP95 range may be ionisation, optical or multisensor types. It is generally accepted that ionisation types have a high sensitivity to flaming fires whereas optical detectors have high sensitivity to smouldering fires. As a result of this, ionisation types are widely used for property protection, and optical types for life protection. These general principles still apply to Context Plus XP95 detectors although the availability of a multisensor in the range offers more choice to the system designer. The multisensor is basically an optical smoke detector and will therefore respond well to the smoke from smouldering fires. The detector also senses air temperature. This temperature sensitivity allows the multisensor to give a response to fast burning (flaming) fires, which is similar to that of an ionisation detector. The multisensor can therefore be used as an alternative to an ionisation detector - particularly since restrictions on the transportation of ionisation detectors have been introduced. Where the environment is smoky or dirty under normal conditions, a heat detector may be more appropriate. It must be recognised, however, that any heat detector will respond only when the fire is well established and generating a high heat output. Unless otherwise specified, devices described in this guide are suitable for indoor use only.

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Maintenance & Service

Detectors should be maintained according to BS 5839-1 or other locally applicable code. Test equipment can be ordered from Context Plus for testing smoke and heat detectors. Detectors should not be cleaned in the field except for careful removal of exterior dirt with a damp cloth. For cleaning and recalibration detectors should be returned to the manufacturer or to the local distributor.

EMC Directive 2014/30/EU

The Context Plus XP95 Multisensor Detector complies with the essential requirements of the EMC Directive 2014/30/EU, provided that it is used as described. A copy of the Declaration of Conformity is available from Context Plus upon request.

Construction products regulation 305/2011

The Context Plus XP95 Multisensor Detector complies with the essential requirements of the Construction Products Regulation 305/2011/EU. A copy of the Declaration of Performance is available from Context Plus upon request.

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Key Features

Sensitive to a wide range of fires, Well-suited to environments such as hotel bedrooms, Unaffected by wind or atmospheric pressure.

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General	
Fire Type	Fast and slow burning fires
Warranty	10 year
Performance	
Analogue Value Nominal	4
Analogue Value (- Tolerance)	0
Analogue Value	23 +4/-0
Chamber Type	Chevron
Heat Classification	A1R
Electrical	
Protocol Voltage (Min)	5V
Protocol Voltage (Max)	9V
Protocol Voltage	5 to 9V peak to peak
Power-Up Surge Current	1mA
Maximum Power-Up Time	10 seconds
Quiescent Current	500µA
Terminal Functions +R	+R Remote indicator positive connection
Terminal Functions -R	-R Remote indicator negative connection
Polarity	L1 & L2 ----------
Environmental	
Humidity (Min)	0% RH
Humidity (Max)	95% RH
Humidity Note	no condensation or icing
Humidity	0% to 95% (no condensation or icing)
Operating Temperature (Min)	-20°C
Operating Temperature (Max)	60°C
Operating Temperature	-20 to 60°C
IP Rating Value	IP44
Storage Temperature (Min)	-30°C
Storage Temperature (Max)	80°C
Storage Temperature	-30 to 80°C
Conformance	
Standards	EN 54-7
Approvals	EN 54-7

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Mechanical	
Weight	105g
Colour	White
Materials Housing	Polycarbonate
Materials Terminals	Nickel plated stainless steel
Product Height (Wo/Base)	50mm
Product Length	50mm
Product Diameter	100mm
Detection Principle	Photo-electric light scattering.

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