



AutoFireX® Max

Automatic Fire Suppression Systems

Specially designed for Automatic Fire Detection & Suppression for small Enclosures.



AutoFireX® Linear Pneumatic Heat Detection tube when installed in a small enclosure, filled with UL approved FK5-1-12 fire suppressing agent and pressurised with Nitrogen, will detect heat/fire in the range of 85°C to 135° C. On impingement with this heat/fire, the tube ruptures at the hottest point, forming a dispensing Nozzle, from which the pressurised agent is discharged instantly directly on the source of the heat/fire extinguishing it instantly and flooding the area with the agent, thereby mitigating any spread or reignition of fire.

By utilising a LPCB approved monitoring switch attached to the tube via an EOL on one end and interfacing with any existing FACP or Audio-Visual Alarm unit the activation of the unit can be annunciated, or functions like tripping the power supply or switching on/off ventilation etc. can be also achieved.

AutoFireX® automatic Fire detection & suppression is a standalone reliable and simple system that doesn't require other hard wares or power input to activate and requires no maintenance. The system pressure can be monitored by visual check of the provided pressure gauge.

Key Features

- ✓ Special Formulated material designed to function in Harsh and reactive environments.
- ✓ Formulation designed to prevent surface damage when exposed to or installed on Galvanised metal/equipment's.
- ✓ Special Formulation prevents gradual permeation of pressurising agent over period of time, adding to its 100% reliability.
- ✓ Non-Destructive Tested to withstand pressure max up to 120 Bar.
- ✓ Low moisture and water absorption ratios.
- ✓ Chemically resistive to most common chemicals
- ✓ Compatible with all Inert, Low pressure and High-Pressure Agents
- ✓ Utilised and installed as standalone linear heat detector and suppression unit.
- ✓ Compatible Fire suppressant Agents- All Clean Agents, (FK5112, HFC227ea, FE36).

Typical Material Specification

Composition:	Proprietary Information- Special Formulated Polymer Material	
Dimensions (ID/OD):	12x10mm	17x15mm
Part No.	7000300	8000100
Operating Temperature*:	85 -135°C	85 -135°C
Burst Pressure:	up to 120 Bar	up to 120 Bar

PHYSICAL PROPERTIES

Part Number	AFX-7000300 & AFX-8000100			
Property	Standard	Units	State	Value
Density	ISO1183	Kg/m ³	NA	1.02
Moisture absorption 23°C - 50%RH	ISO62	%	NA	0.7
Water absorption, immersion at 23°C	ISO62	%	NA	1.5
Bending Radius	BS ISO 7328:2010	mm	Dry	30 (max)
Wall Thickness	BS ISO 7328:2010	Mm	Dry	1.5mm min (+/-0.15%)
Tolerance	BS ISO 7328:2010	%	Dry	+/- 0.12

AUTOFIREX® MAX AUTOMATIC FIRE SUPPRESSION SYSTEMS
UTILISING VARIOUS   **LISTED FIRE SUPPRESSION AGENTS**

THERMAL PROPERTIES

Property	Standard	Units	State	Value
Melting point	ISO11357	°C	Dry	174
Heat Deflection Temperature	ISO75	°C	Dry	45

Electrical Properties				
Property	Standard	Units	State	Value
Volume resistivity	IEC60093	Ohm-m	Dry Condt.	10 ¹¹
Surface resistivity	IEC60093	Ohm	Condt.	10 ¹²
Dielectric Strength	IEC- 60243-1	kV/mm	Dry	32

DESIGN & INSTALLATION GUIDE

Standard Length 17 x 15mm (OD x ID) Part No.	1.0 M 8000101	2.0 M 8000102	3.5 M 8000103	5.0 M 8000105
REQUIRED CLEAN AGENT(Kg) FK5-1-12	0.17-0.26Kg	0.34-0.51Kg	0.63-0.84Kg	0.85-1.28Kg
VOLUME PROTECTED (m³)	0.2-0.3m ³	0.4-0.6m ³	0.75-1.0m ³	1.0-1.2m ³
Standard Length 12 x 10mm (OD x ID) Part No.	1.5M 7000301	3.0 M 7000303	5.25M 7000305	7.5 M 7000307
REQUIRED CLEAN AGENT(Kg) FK5-1-12	0.20 -0.25Kg	0.38-0.45Kg	0.70-0.75Kg	1.0-1.10Kg
VOLUME PROTECTED (m3)	0.2-0.3m ³	0.4-0.6m ³	0.75-1.0m ³	1.0-1.2m ³

AutoFireX® Max Automatic Fire Suppression Systems Advantages

- Reliable, 24 x 7 Automatic Fire Detection & Protection for equipment and data against Fires.
- Fast-Detection & Suppression of fire in seconds, reducing equipment damage and downtime
- Multiple Detection points-AutoFireX Proprietary Fire Detection Tube (FDT) acts as a Linear Pneumatic Heat detector can detect fire throughout its installed length
- No External Power required to activate the system. No "False Alarm" or Discharges AutoFireX systems only activate in the event of an actual fire/heat impingement.
- Post Discharge - Systems utilizing Clean suppression agents require no post-discharge clean up.
- Easy to install in any new or existing Equipment's (Electrical Panels, server rack etc.) and requires no power to operate.
- Environmentally Friendly - Low Pressure systems utilizing UL certified Clean Agents is not harmful to equipment or the environment.
- Interface Options -AutoFireX System comes with various options to initiate activities like Annunciation, shut on or shut of Power supply, ventilation, interface and monitoring through BMS, SCADA etc.
- Low Maintenance-AutoFireX systems do not interfere with installation or maintenance of equipment and can also be retrofitted to existing equipment's

TYPICAL APPLICATIONS



CAR ENGINE



SERVER RACK

ELECTRICAL CABINETS

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