FIREX-200 FIRE SUPPRESSION SYSTEM

(CLEAN AGENT) (HFC-227ea Heptafluoropropane)

Distributor-



Unique Multi Engineering Ltd.

Bulbul Mansion (1st fl) House# 137/B, New Eskaton Road,Ismail Lane Ramna, Dhaka 1217, Bangladesh, Phone: +880258315796







BSI Fire Suppression Systems Firex-200 (Clean Agent)

Firex-200 Fire Suppression System (Clean Agent)

(HFC-227ea Heptafluoropropane)

HFC-227ea (chemically known as Heptafluoropropane) was developed to replace Halogenated Agent in January 1994. The replacement was done due to the intense ozone depletion caused by the Halogenated Agent . In contrast, HFC-227ea complies with BS EN 15004-1. Tests after tests had confirmed that HFC-227ea is capable to extinguish fire in seconds, safe for human and hold

damage on assets to a minimum.

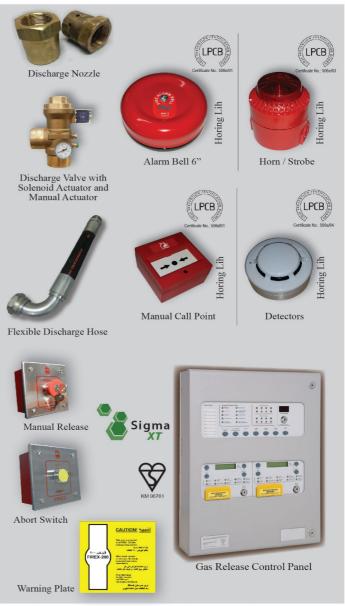
No facility in this world can afford
the loss of human, money, time,

& assets that occurs after a fire.

HFC-227ea manufactured in strict accordance with Civil Defence regulations as well as BS 15004-1. The HFC-227ea suppression agent is stored in various sizes of containers with valve assemblies consisting of an immediate acting rupture disc and an electrical actuator. A pressure guage is also installed to allow a quick inspection of container pressure. Optional container's accessories are Liquid Level Indicator and Low Pressure Switch.



BS EN 15004-1:2008 KM. NO. 606270



 We reserve the right to change the components without prior notice, subject to availability.





MECHANICAL COMPONENTS



Discharge Nozzle



Discharge Valve with Solenoid Actuator and Manual Actuator



Flexible Discharge Hose

ELECTRICAL COMPONENTS



Alarm Bell 6"



Horn / Strobe



Manual Call Point





Detectors



Abort Switch

Manual Release









Gas Release Control Panel



SPECIFICATIONS

AGENT

The extinguisher agent used in FIREX 200 engineered clean agent extinguishing system is Heptafluropropane. Firex 200 is a colorless, liquified compressed gas. It is stored as a liquid and dispensed in to the hazard as a colorless, electrically non-conductive vapor. It leaves no residue. It has acceptable toxicity for use in occupied spaces when used as specified in the United Environmental Protection (EPA) proposed Significant New Alternatives Policy (SNAP) program rules.

Firex 200 extinguishing a fire by a combination of chemical and physical mechanisms.

PERFORMANCE

Firex 200 is an effective fire extinguishing agent that can be used on many types of fires. It is effective for use on Class A Surface burning fires, Class B Flammable liquid and Class C Electrical fires.

On a weight of agent basis Firex 200 is a very effective gaseous extinguishing agent. The minimum design concentration for total flood applications, in accordance with BS EN 15004-1:2008 shall be 7%.

AGENT SPECIFICATION

Firex 200 is manufactured to the following specifications;

Mole % 99.6 minimum

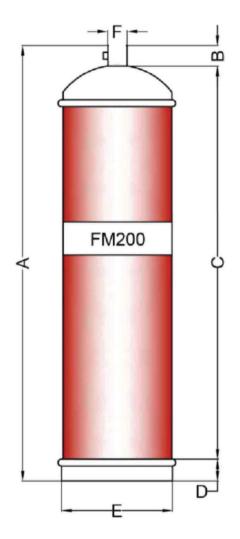
Acidity, ppm by weight 3.0 maximum

Water content, % by weight 0.001 maximum

Soluble residue, % by volume 0.05 maximum

PHYSICAL PROPERTIES OF FIREX 200 (HFC-227ea)

| Chemical Name | Heptafluoropropane(CF3CHF CF3) |
|---|--------------------------------|
| Molecular weight | 170.03 |
| Boiling point | (°F) @ 7 60mm HG 2.55 |
| Freezing point | (°F) -204 |
| Critical Temperature | (°F) 215 |
| Critical pressure | (psia) 422 |
| Critical volume (ft3/lbm) | 0.0258 |
| Critical density (lbm/ft3) | 38.8 |
| Specific heat, liquid (BTU/lb-°F)@77°F | 0.283 |
| Specific heat, vapor (BTU/lb-°F) @constant | 0.1932 |
| Pressure (1 ATM) @ 77°F | |
| Heat at vaporization (BTU/lb) @ boiling point | 57.0 |
| Thermal conductivity (BTU/hft°F) of liquid@77°F | 0.040 |
| Viscocity, Liquid (lb/ft hr)@77°F | 0.547 |
| Vapor pressure (psia)@77°F | 66.4 |
| Ozone depletion potential | 0 |
| Est, Atmospheric lifetime (years) | 31-42 |
| LC50 (Rates; 4 hrs-ppm)> | 800,000 |



| | OVI INDED OUZE | | | DIME | NSION | (MM) | | | | EMPTY | VOLUME |
|---------------|----------------|------|-----|------|-------|------|----|-------------|-----------------|----------------------------|----------------------------|
| | CYLINDER SIZE | Α | В | С | D | Е | F | (THICKNESS) | M (MATERIAL) | CYLINDER WEIGHT (KG) | OF CYLINDER (LITERS) |
| | 25 LBS | 570 | 110 | 400 | 60 | 240 | 33 | 3 | MILD STEEL | 14.4 | 18.1 |
| | 50 LBS | 780 | 110 | 610 | 60 | 240 | 33 | 3 | MILD STEEL | 16.7 | 27.6 |
| \rightarrow | 75 LBS | 1010 | 110 | 840 | 60 | 240 | 33 | 3 | MILD STEEL | 17.9 | 38.0 |
| \rightarrow | 100 LBS | 1050 | 110 | 860 | 80 | 310 | 33 | 3 | MILD STEEL | 21.4 | 64.9 |
| \rightarrow | 125 LBS | 1330 | 150 | 1100 | 80 | 310 | 33 | 3 | MILD STEEL | 24.8 | 83.0 |
| | 150 LBS | 1360 | 150 | 1130 | 80 | 310 | 33 | 4 | MILD STEEL | 27.3 | 85.2 |
| \rightarrow | 200 LBS | 1390 | 220 | 1050 | 120 | 370 | 80 | 4 | MILD STEEL | 46.80 | 119 |
| \rightarrow | 250 LBS | 1480 | 150 | 1210 | 120 | 370 | 49 | 4 | MILD STEEL | 61.2 | 130.0 |
| | 300 LBS | 1630 | 150 | 1360 | 120 | 370 | 49 | 4 | MILD STEEL | 72.7 | 146.1 |
| | 400 LBS | 1350 | 150 | 1050 | 150 | 550 | 49 | 4 | MILD STEEL | 85.5 | 249.3 |
| | 500 LBS | 1550 | 150 | 1250 | 150 | 550 | 49 | 5 | MILD STEEL | 98.1 | 296.8 |
| | 600 LBS | 1740 | 150 | 1440 | 150 | 550 | 49 | 5 | MILD STEEL | 117.7 | 341.9 |
| | 1000 LBS | 1645 | 215 | 1250 | 180 | 800 | 49 | 6 | MILD | 173.4 | 628.0 |





P.O. BOX 22436 INDUSTRIAL 13, SHARJAH - U.A.E.

FAX: 06-5340090

TEL: 06-5340300

FM 200 CYLINDER DIMENSIONS



Valves for fixed installations

33mm for chemical gases



Series B0482

ST ANDARD SPECIFICATION

Working pressure p max. Temperature range Seat orifice size **Material** Valve body

Valve body Inlet connection Outlet connection Burst disc Gauge 140 bar - 20°C + 60°C 33 mm

brass $C = 2 \frac{1}{2}$ - 12 UN $A = 1 \frac{7}{8}$ - 12 UN p = has to be specifiedhas to be specified

Distributor-



Unique Multi Engineering Ltd. A Firm of Fire Detection, Protection, Ventilation & Cooling System Solution

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Mail: info@unique-ltd.com, uniquebd0707@gmail.com

Mobile: +8801716592522, +8801825451599 Web: www.unique-ltd.com



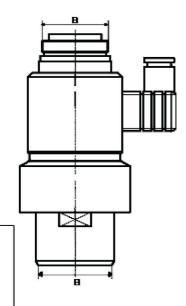
Electromagnetic release device for series B0480 B0481 B0482





STANDARD SPECIFICATION

Connection Nominal voltage Nominal current Class B = M 42 x 1,5 24 VDC 0,5 A or 1A IP65



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Manual, pneumatic release device for

series

B0480

B0481

B0482





STANDARD SPECIFICATION

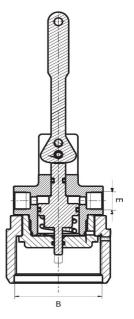
Connection Pneumatic connection Working pressure min: 20 bar for 300 bar systems 15 bar for CO2 and 200 bar systems 10 bar for systems

 $B = M 42 \times 1.5$ E = G 1/8"

p max = 340 bar

p max = 250 bar

p max = 150 bar



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Tel.: *352-32 78 32-232 Fax: *352-32 78 32-326





Assembly pressure gauge with integrated pressure switch, 50 mm





STANDARD SPECIFICATION

Gauge connection
Nominal size
Electrical Data:
Contact pin and lug
Switch voltage
Switch current
Contact load
Switch type
Working Pressure
Indication range
Nominal switch point
Setting increasing pressure min

 $M = M10 \times 1$ 50 mm

gold-plated
4,5 to 24 VDC/ VAC
5 mA to 100 mA
max 3W
contact above switch point
200 bar
180-360 bar
180 bar
185 bar
160 bar
250 bar



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Tel.: *352-32 78 32-232

Fax: *352-32 78 32-326





Assembly pressure gauge, 40 mm

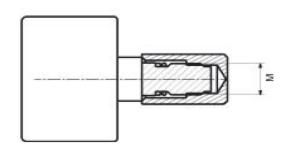




STANDARD SPECIFICATION

Gauge connection Indication range Nominal size M = M 10 x 10 - 360 bar 40 mm







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EMIRATES FIRE FIGHTING EQUIPMENT FACTORY

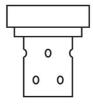
TEL: 06-5340300, FAX: 06-5340090, Email: <u>firex@emirates.net.ae</u>, P.O. BOX 22436 IND'L. AREA 13, SHARJAH – U.A.E.

FIREX200 CLEAN AGENT FIRE SUPPRESSION SYSTEM

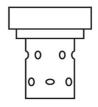








180° NOZZLE



360° NOZZLE

FXDN 014

Specification

The size of nozzle dif ferent range of 15 to 50mm, 180° & 360°

The discharge nozzle is the device which controls the gas flow, and distributes the agent throughout the protected area. Nozzle are available with either 360° twelve orifice or 180° eleven orifice.

The nozzles are designed to discharge the agent in ten seconds or less, as long as they are used within the limitations outlined in the manual. Nozzles are constructed of the solid brass/aluminum to Prevent corrosion.

Distributor-

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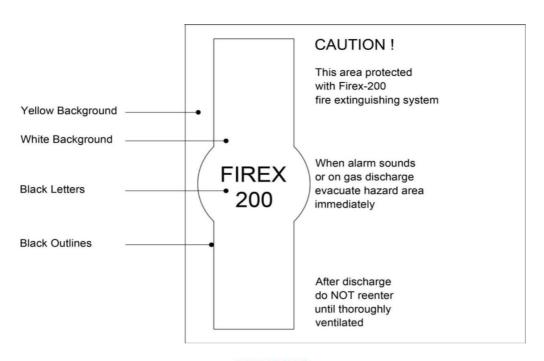
FIREX

EMIRATES FIRE FIGHTING EQUIPMENT FACTORY

T: 06-5340300, F: 06-5340090, Email: firex@emirates.net.ae, P.O. Box No. 22436, Industrial Area 13, Sharjah, U.A.E.

FIREX - 200 CLEAN AGENT FIRE SUPPRESSION SYSTEM

WARNING SIGN



FXWS018

TECHNICAL SPECIFICATION

Material Rigid Polyvinyl

| DIMENSIONS | | |
|------------|--------|--|
| WIDTH | 210 mm | |
| HEIGHT | 210 mm | |
| THICKNESS | 1.0mm | |





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Extinguishant Control Panel



Features

- Approved to EN12094-1, EN54-2 and EN54-4
- Three detection zones as standard
- Any single zone or any combinations of zones can be configured to release
- O Configurable first stage sounder delays
- Configurable detection delays
- Zero time delay upon manual release option
- Compatible with I.S. barriers
- Non-latching zone input option to receive signals from other systems such as aspirating
- Configurable extinguishant delays up to 60 seconds in 5 second steps
- Configurable extinguishant duration up to 5 minutes in 5 second steps
- Countdown timer shows time remaining until
- Supports up to seven, four wire status indicators
- Built in Extract Fan control

Programmable **Functions**

Access Level 2

- Test Zones 1 to 3
- Disable Zones 1 to 3
- Disable 1st Stage Alarms Disable Pre-activated 1st Stage Relay
- Disable Pre-activated 2nd Stage Relay
- Disable Extract Fan Output
- Disable Manual Release Input
- Disable Extinguishant Sub System
- Activate Extract Fan Output
- Activate Alarm Delays

Access Level 3

- Sounder Delay
- Coincidence Detection Disable Panel Features
- Zone Alarm Delays (Detectors) Zone Alarm Delay (Call Points)
- Configure Zone for I.S Barrier Úse
- Zone Short Circuit Alarm
- Zone Non Latching
- Zone Inputs Delay
- Extinguishant Release Time Delay Extinguishant Release Duration Timer
- Extinguishant Reset Delay Timer

Product Overview

- O Designed and manufactured to the highest standards in a quality controlled environment and with European EN12094-1 approvals, the Sigma XT extinguishant releasing panel offers outstanding value and performance for all small to medium fixed firefighting installations.
- With three detection zones as standard, extinguishant release can be configured to activate from any combination of detection zone inputs to allow (among other combinations) any two from three type activations such as would be required for detection in ceiling void, room and floor void applications.
- ☐ The extensive configuration options of the Sigma XT allow the functionality of the system to be extensively modified while still complying with the requirements of the controlling standard for the equipment (EN12094-1, EN54-2 and EN54-4).
- The panel contains a large LED display to enable easy configuration and control which also displays the time remaining until extinguishant release for added user safety.
- ☐ The countdown timer is duplicated on up to seven remote status units to provide local indication of the extinguishant system status
- With all of the electronics mounted on a single, easily removable, steel plate Sigma XT panels are both robust and easy to install.
- O Sigma XT is supplied in an enclosure that matches the design and colour of the Sigma CP range.



Model No. K11031M2



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Technical



Distributor-

Construction IP Rating

Finish Epoxy powder coated Colour - lid & box BS 00 A 05 grey - fine texture Colour - controls plate & labels RAL 7047 light grey - satin 6kg

Weight

Mains supply 230V AC +10%/-15% (100 Watts maximum) 1.6 Amp (F1.6A L250V) Mains supply fuse

Power supply rating 3 Amps total including battery charge 28V +/- 2V

IP30

1.2mm mild sheet steel

24V Fused at 500mA with electronic fuse

30VDC 1A Amp maximum

30VDC 1A Amp maximum 30VDC 1A Amp maximum

30VDC 1A Amp maximum

30VDC 1A Amp maximum

30VDC 1A Amp maximum

Maximum ripple current 200 millivolts

Battery type (Yuasa NP) Two 12 Volt 7Ah sealed lead acid in series Battery charge voltage 27.6VDC nominal (temperature compensated)

Battery charge current 0.7A maximum Battery fuse 20mm, 3.15A glass Maximum current draw from batteries 3 Amps

0.095A Quiescent current of panel in mains fail **ROV** output Fused at 500mA with electronic fuse

Sounder outputs Fault relay contact rating Fire relay contact rating Local fire relay contact rating First stage contact rating Second stage contact rating **Extract contact rating**

Zone quiescent current

2mA maximum Terminal capacity 0.5mm² to 2.5mm² solid or stranded wire Number of detectors per zone Dependent on type (maximum 32)

Number of sounders per circuit Dependent on type (max. 0.5A per sounder circuit)

Detection circuit end of line 6K8 5% 1/2 Watt resistor Monitored input end of line 6K8 5% ½ Watt resistor Sounder circuit end of line 10K 5% ¼ Watt resistor Extinguishant output EOL 1N4004 Diode

No. of detection circuits

No. of sounder circuits 2 x 1st Stage, 1 x 2nd Stage

Extinguishant release output Fused at 1 Amp

Extinguishant release delay Adjustable 0 to 60 seconds (in 5 second steps) Extinguishant release duration Adjustable 60 to 300 seconds (in 5 second steps)

SIL, AL, FLT, RST inputs Switched -ve. max resistance 100 Ohms

Zone normal threshold 8K ohms to 1K ohm 999 ohms to 400 ohms Detector alarm threshold Call point alarm threshold 399 ohms to 100 ohms Short circuit threshold 99 ohms to 0 ohms Head removal condition 15.5 to 17.5 volts FP200 or equivalent Cabling Monitored inputs normal threshold 8K ohms to 1K ohm

Monitored inputs alarm threshold 999 ohms to 100 ohms Monitored inputs Short circuit threshold 99 ohms to 0 ohms Status unit/Ancillary board connection Two wire RS485 connection

Status unit power output Fused at 500mA with electronic fuse

Panels

Product Code Description Size (mm) K11031M2 Surface mounting panel 385 x 310 x 90 K11031F2 Flush mounting panel 415 x 315 x 86 Remote Hold Switch 0-470R 0 0-470Rh 0-470R 0 0 4700 6KB 0 0 To Status Units (3) 000 -JL+ -JNC C NGNC C NGL+ -JL+ -JL+ --3 2ND 1ST 2ND MODE MAN. HOLD SOUNDER STAGE STAGE SELECTRELEASE Sigma XT PCB

AH-031 Series



→ AH-0311 Multi-Purpose Smoke Detector
AH-0315 Multi-Purpose Smoke and Heat Detector
AH-0316 Multi-Purpose Combination Heat Detector

Multi-purpose Resettable Type

This unit has designed for relay output feature with optional individual power source and it has been used widely in the current market. This resettable detector is not only use as a fire alarm system but will also supervise input power via an optional relay output for power breakdown or wire break. Fault relay contact will open when power breakdown occur and fire alarm signal will transmitted to connected system or computer terminal when detector is activated. When the alarm signal is absent the detector will automatically return to standby status. Optional built-in buzzer can sound a warning at the first sign of fire. This detector is currently used quite often in security systems and is also promoted for use in communications, banking, shipping or the art business.

Characteristics

- Special chamber design has greatly decreased dust levels and improved detection accuracy.
- Dual LEDs for 360-degree visibility.
- Advanced technology enables this detector to increase its precision in fire detection, improve signals to avoid noise interference and thus reduce unwanted false alarm.
- Low current consumption that allows more detectors to be used with each control panel.
- Dual contacts on the base which enhance the connecting stability between sensor and base.
- All bases are fitted with a shorting spring to permit maintenance without disconnecting when removing the detector head.



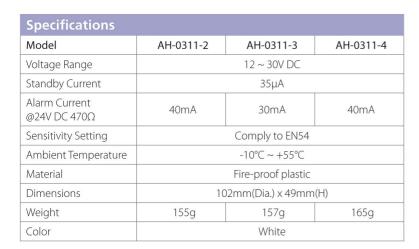
AH-0311

Multi-Purpose Smoke Detector

Approvals: EN54 (LPCB) € €







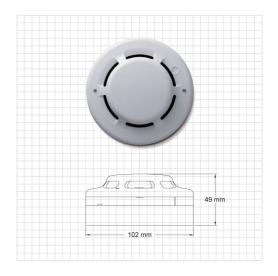
| Order information | | |
|---|--------------------------|--|
| AH-0311-2 | 2-wire | |
| AH-0311-3 3-wire with remote indicator output | | |
| AH-0311-4 | 4-wire with relay output | |

| Specifications (Resettable) | | | |
|-----------------------------|-----------|------------|-------------|
| Model | AH-0311-S | AH-0311-BS | AH-0311-BPS |
| Alarm Current | 15mA | 50mA | 80mA |
| Standby Current | 115μΑ | 115μΑ | 15mA |
| Voltage Range | 12V DC | 12V DC | 12V DC |
| Weight | 168g | 170g | 170g |

| Order information (Resettable) | | |
|--------------------------------|---|--|
| AH-0311-S | + Relay Output | |
| AH-0311-BS | + Buzzer + Relay Output | |
| AH-0311-BPS | + Buzzer + Power off & Wire Disconnection Warning + Relay Output | |

| Effective aler | t area |
|-----------------|--------------------|
| Building Height | Area Covered |
| Under 4M | 150 M ² |
| 4 ~ 20M | 75 M ² |











AH-0218 & AH-9719



Fire Alarm Bell & Indicating Lamp

AH-0218 Fire Alarm Bell 6"

- High efficiency low current consumption on 24VDC motorized bells.
- Terminals will accept 2.5mm cables.
- Simple installation via multi-fixing base plate for all types of location.
- Fitted with two series diodes for fault monitoring.
- Option of customized discs printed with company name and logo.
- 12VDC bells are also available.

Approvals: EN54 (LPCB)





AH-9719 Fire Indicating Lamp

- Uses white bulb (or low current LED) and installed inside the red lamp cover.
- When lit, it is clear visible within 10 meters.

Approvals:

| Specifications | | |
|-------------------|--|--|
| Model | AH-0218 | |
| Dimensions | ø6" (152mm) x 56mm(H) | |
| Voltage | 24V DC | |
| Current | 25mA | |
| Sound Output | 93dB @1M | |
| Movement | Motor, Pinion and striker | |
| Movement Features | DC Motor, acetal gear wheel, steel striker | |
| Gong | Steel, secured with phillips screw | |
| Base Plate | Molded black polycarbonate | |
| Material | Steel plate | |
| Weight | About 850g | |

| Specifications | | |
|---------------------|------------------------|--|
| Model | AH-9719 | |
| Dimensions | 90mm(Dia.) x 70mm(H) | |
| Consumption Current | 24V DC 60mA / LED 20mA | |
| Bulb | 30V/2W red bulb or LED | |
| Lamp Cover | Fire-proof plastic | |
| Lamp Base | Fire-proof plastic | |
| Weight | About 70g | |



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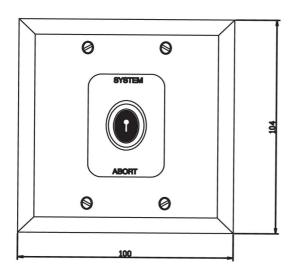
FIREX200 CLEAN AGENT FIRE SUPPRESSION SYSTEM

MANUAL RELEASE



MANUAL RELEASE (Electric)

- The electric manual release switch shall be a dual action device which provides a means of manually discharging the Suppression System when used in conjunction with the control system.
- The Manual Release switch shall be a PYRO-CHEM model, or equal in quality, performance and features.



MANUAL RELEASE STATION



Electrical Details

Type : XB2-BA51 UI:600V UIMP:6kv

ITN: 10A Ac15 240V-8A

Box Dimension

Back Box: Mield Steel (104x100x60)mm Frame : Stainless Steel (116x116x8)mm





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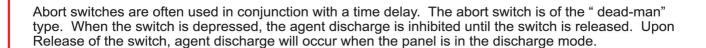


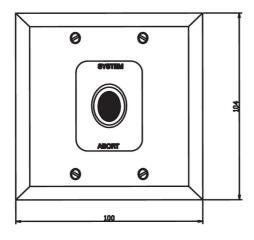
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FIREX200 CLEAN AGENT FIRE SUPPRESSION SYSTEM

ABORT SWITCH







Box Dimension

Back Box : Mield Steel (104x100x60)mm

Frame : Stainless Steel (116x116x8)mm

Electrical Details

Type : XB2-BA51 UI : 600V UIMP:6kv

ITN: 10A Ac15 240V-8A





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Electronic Sounder and Beacon

General

This electronic sounder is designed for use with fire alarm systems, security systems and industrial signaling systems. Combined sounder and beacon provides an audio-visual warning which is suitable for places where high sound output and visual indication is required.

Characteristics

- 32 signal tones selectable by Dip switch.
- High sound output with low current consumption.
- High efficiency lens for maximum light output.
- Volume Control as standard.
- Two sets of IN and OUT terminals, easy for installation.

Approvals: EN54 (LPCB)





| Specifications | | | |
|--|------------------------|-------------------------|--|
| Model | AH-03127-S | AH-03127-BS | |
| Voltage | 24V | DC DC | |
| Current Consumption 24V DC (tone 3) | 14.5mA | | |
| Sound Output 24V DC dB (A) at 1 meter | Max. 114 | | |
| Volume Control | 0 to -20dB adjustment | | |
| Ingress Protection | IP44 | | |
| Ambient Temperature | -25°C ~ +80°C | | |
| Material | ABS plastic | | |
| Dimensions | 92.5mm(Dia.) x 94mm(H) | 92.5mm(Dia.) x 110mm(H) | |
| Weight | 254g | 278g | |

| Order information | | |
|-------------------|-------------------------------|--|
| AH-03127-S | Electronic Sounder | |
| AH-03127-BS | Electronic Sounder and Beacon | |

