

Synergy Firessense Direct Low Pressure System



Supply & Installed by:



Manufactured by,
SWASTIK
SYNERGY



COMPANY PROFILE



NFPA INDIA PRIVATE LIMITED is one of the leading System Integrators of Fire Fighting Systems, Appliances & Equipment having Class - A License of Fire Fighting

Our OEM's (SSEPL) manufacturing and warehousing facility is located at Khopoli near Mumbai and it has all the necessary facilities in plant and also the sophisticated machinery to manufacture automatic Fire suppression system.

We are approved by CCOE (PESO) for filling and storing of Clean Agent Gases. We are registered as a MSME Unit and have adopted ISO 9001:2015 and ISO 45001:2018.

We Specialize in the following products

- **UL - CO2** Fire Extinguishing System
- **UL - Kitchen** Fire Extinguishing System
- **VDS - Inert** Fire Suppression System
- **LPCB - SYNERGY** Firessense Direct Low Pressure System
- **UL - Clean Agent** Fire Extinguishing System

MAJOR CAUSES OF FIRE



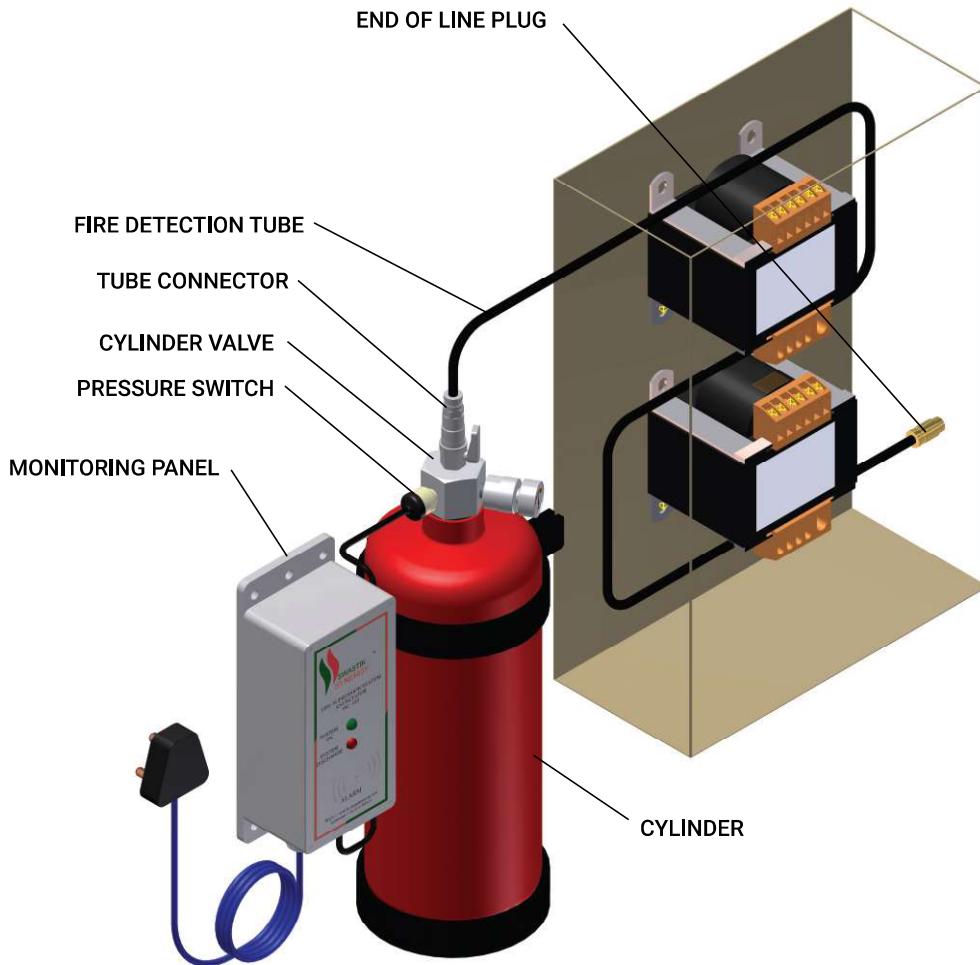
We rely heavily on electricity to power our businesses and homes. Electrical systems pose an ongoing fire risk. A failure or malfunction within the electrical components of equipment or machinery can cause electrical fires. Electrical fires originate in electric wires, cables, circuit breakers, and within electrical components. They lead to serious hazard to life and property leading to personal injuries, property damage, loss of productivity and precious time. Though electrical fires can be extremely destructive they can be prevented by Synergy Firessense Direct Low Pressure System.

CONSEQUENCES OF FIRE

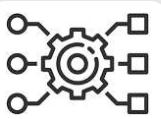


The most obvious consequence of fire damage to office buildings is the damage and destruction to the property itself. Many businesses are self-contained, which means when that business is incapacitated, production and normal operational procedures cease. For businesses that are located under one roof, all work ceases until repairs can be made and production ramped up again. Office workers may end up dealing with lost wages as the result of time lost due to fire damage and repair. To avoid such consequences it is advisable to install Firessense system which is extremely useful and cost effective.

SYSTEM CONFIGURATION



SYSTEM FEATURES



Fully Automated

Detects and suppresses fire automatically



Quick Detection

Extinguishes fire at an early stage as it installed directly inside electrical cabinets - closer to where a fire can start



Reliable Pre-fabricated System

The system is reliable as system does not rely on complex electronic or moving parts

The system is designed to protect Electrical Enclosures and Circuitry

The pre-engineered concept minimizes the amount of engineering required when evaluating a design for a specific application.

SYSTEM FEATURES



Independent System / Self Actuated

The system does not need external power supply for detection and extinguishing of fire



24 Hour Protection

An automatic detection and actuation controls ensures protection is always on



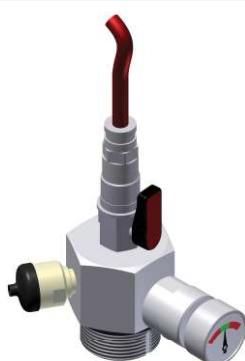
Non Toxic

It does not release toxic vapours during discharge. It is ideal for the protection of normally occupied premises.

COMPONENTS



Cylinder



Cylinder Valve



Cylinder Mounting Bracket



Monitoring Panel



Fire Detection Tube



Fire Detection Tube



Pressure Switch



Tee Connector



Tube connector
(In-Line Connector)



End of Line Schrader Valve



End of Line Plug



YOUR SAFETY आपकी

FK-5-1-12 and HFC 227ea



Properties	FK-5-1-12	HFC 227ea
Standard	NFPA-2001, Standard on Clean Agent Fire Extinguishing Systems. LPS 1666 certified	NFPA-2001, Standard on Clean Agent Fire Extinguishing Systems. LPS 1666 certified
Operating Pressure	15 Bar at 21°C	15 Bar at 21°C
Temperature Rating	-20°C to +60°C	-20°C to +60°C

CYLINDERS



Description	Details
Type of System	Synergy Firessense Direct Low Pressure System with FK-5-1-12 / HFC 227ea
Operating Pressure	15 Bar at 21°C
Operating Temperature	-20°C to +60°C

Nominal Size mm	Part No.	Outside Dia. mm	Overall Height mm	Internal Volume Ltr.	FK-5-1-12 / HFC 227ea Agent Kg.
1	SSE-CY-111001-1	85	255	1.2	1
2	SSE-CY-111001-2	110	300	2.3	2
4	SSE-CY-111001-4	140	400	5.2	4

SYSTEM DESIGN IS BASED ON

- NFPA
- LPS 1666
- NBC 2016

As per Clause 3.4.6.3 OF NBC 2016 Firessense System is useful for:

Substation/Transformers

Electrical MV main distribution panel and lift panels shall be provided with CO2 / inert gas /

Clean gas flooding system for all panel compartments with cylinder located beside panel.



Electrical and Electronic Cabinets



Telecommunication Areas



Data Processing Areas and Cabinets



Laboratory Fume / Exhaust Cabinets

APPLICATIONS



Pump Enclosures



UPS Units



Flammable Chemicals Storage Cabinets



Generator Enclosures



Transformer Cabinets



CNC & VMC Machining Centers

Supply & Installed by:



YOUR SAFETY सुरक्षा

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NATIONAL FIRE PROTECTION ARMOUR
GOVT. APPROVED CLASS-A LICENCE AGENCY

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