



sometimes  
**minor sparks**  
can make  
**big losses...**

Safety  
Reliability  
Quality

**Intelligent Protection System**  
Round the Clock 24 x 7

**FireCease**

**Advent Electric Technologies Pvt. Ltd.**





## Round the clock 24 x 7 Intelligent System protection

The intelligent protection system FireCease offers reliable and effective all-around protection for Machines / Electrical Cabinets & other heat sensitive areas. The main features include detection and extinguishing without requiring an electrical source, online monitoring and automatic recording of security-relevant functions.



### Ensuring Safety Continuity

Machines / Electrical Cabinets and other hazardous heat sensitive areas which treating flammable constraints have most likely possibilities to hold a high risk of Fire.

To do this, fixed extinguishing systems using HFC 227ea / FK-5-1-12 / CO2 were developed to provide continuous protection while minimizing potential damage from the fire, and avoiding damage to the ozone layer (zero ODP).

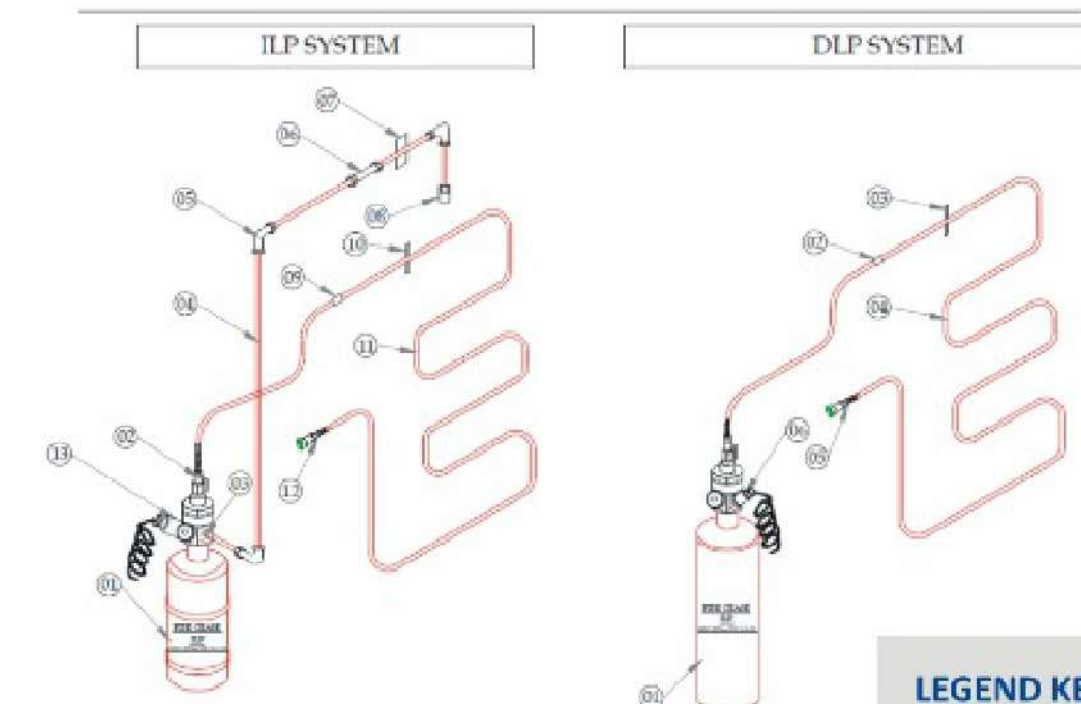
Protection should be tailored to each need, seeking the best solution for an optimal design. FireCease designs systems to suit any project, regardless of complexity. We are committed to guaranteeing this efficiency.

Intelligent protection of machine tools The fully automated Intelligent protection system FireCease covers every- thing from fire detection, alarming, monitoring to extinguishing. The fire detection as well as the activation of the extinguishing process is done pneumatically and is therefore highly reliable. Furthermore, all security-relevant functions are monitored online and indicated as well as recorded in case of an event.

Needless to say, FireCease complies with applicable international standards and guidelines such as NFPA & IS safety protocols.







S.No.	Qty.	Description
1	1	ILP Cylinder / Valve Assembly
2	1	Union Fitting
3	1	Reducing Fitting
4	4	Steel Pipe 3/8"
5	3	Elbow Fitting Straight Fitting
6	4	Pipe Bracket
7	1	Nozzel
8	1	Cross panel-fitting
9	20	Binding Ties
10	10 mtr	Fire Detection Tube
11	1	End of Line Adaptor
12	1	Pressure Switch

S.No.	Qty.	Description
1	1	DLP Cylinder / Valve Assembly
2	1	Cross panel-fitting
3	1	Binding Ties
4	10 mtr	Fire Detection Tube
6	1	End of Line Adaptor
5	1	Pressure Switch

## LEGEND KEY COMPONENTS

- Extinguishing Agent Cylinder
- Valve
- Pressure Switch, Potential-free
- Ball valve for the activation/deactivation of the extinguishing system (with status monitoring)
- Measuring unit for checking the Agent quantity
- Alarm interface
- Detection line, steel
- Detection line, fire sensor system
- Manual release with pressure gauge
- End stop for detection line
- Extinguishing line for Agent
- Extinguishing Nozzles
- Distribution unit with pressure switch 2 and 3

## Reliable detection and extinguishing

At the heart of the system is the patented tube-shaped linear fire sensor, produced with a high-molecular polymer, named Fire Detection Tube. This sensor is stressed by a pressure of 16 bar. Connected to an extinguishing cylinder via a valve, it is permanently put under this pressure and will burst if its ambient temperature rises above 110 °C. As soon as the sensor bursts, the valve of the extinguishing cylinder is opened and the gas is introduced into the protected area.

## Comprehensive online monitoring and recording

All security-relevant functions of the FireCease Intelligent Protection system are monitored online and indicated acoustically and optically in case of an incident. A connection to an existing fire control panel is possible. The operating data as well as these functions are automatically recorded in a long-term memory. Thus, events can be easily reconstructed after an incident and liability issues clarified.

Easy maintenance and commissioning The need for maintenance is electronically displayed and carried out in accordance with the operating schedule. In addition, maintenance and refilling are easily performed in correspondence with the right technical documentation. The extinguishing agent cylinders can easily be refilled from any gas refilling station.

## Effective and environment friendly

FireCease use the gas i.e. HFC 227ea, FK-5-1-12, carbon dioxide (CO<sub>2</sub>) for extinguishing, which is most effective for flammable liquids. In addition, it has a high cooling effect and extinguishes the fire by reducing the oxygen volume concentration in the protected area. Compared to chemicals or powder it is also safe for the equipment as it does not leave any harmful residues. Therefore, no cleaning is needed after extinguishing. Natural gases exist in our ambient air and are, for the amount which is needed to extinguish a fire, environment friendly.



## Highlights

- All-around protection for machine/ Electrical Cabinet
- Pneumatic detection and activation of extinguishing process
- Insensitive to technical inter- ferences, power outages and immune to deception
- Comprehensive online monitoring and recording of security-relevant data
- Effective extinguishing with a pure natural gas
- Proven system with a wide installed base

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The information in this document contains the general description of technical options available, which do not always have to be present in individual cases. The required feature should therefore be specified in each individual case at the time of closing the contract.

### Answers for infrastructure and cities.

Our world is undergoing changes that force us to think in new ways: demographic change, urbanization, global warming and resource shortages. Maximum efficiency has top priority and not only where energy is concerned.

In addition, we need to increase comfort for the well-being of users.

Also, our need for safety and security is constantly growing. For our customers, success is defined by how well they manage these challenges. FireCease has the answers.

[www.astronixtechnologies.com/astronix](http://www.astronixtechnologies.com/astronix)

"We are the trusted technology partner for energy-efficient, safe and secure buildings and infrastructure."