*ASA*technology™ - smart and reliable fire detection for your data center
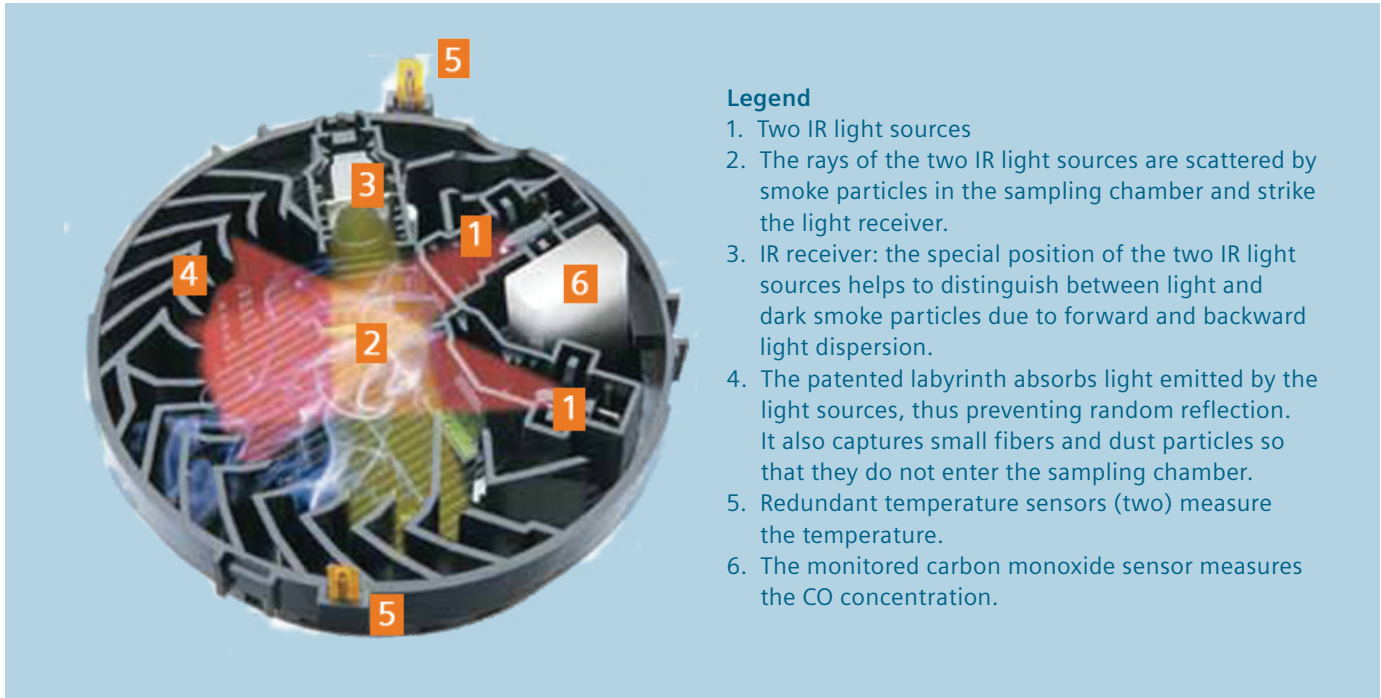
usa.siemens.com/datacenters-fire-prevention

Advanced protection with our No False Alarms Guarantee

In today's digital age, data centers are mission critical and your most important objective is maximum availability. Downtime from smoke, fire, ash, water, and chemical byproducts can all cause serious equipment issues, not to mention the possibility of lost data, revenue, and productivity.

That's why Siemens *ASA*technology (Advanced Signal Analysis) and No False Alarm Guarantee make Desigo® detectors the best choice for demanding applications like data centers.

Detectors with innovative *ASA*technology intelligently detect smoke, heat, and CO without false alarms.

Legend

1. Two IR light sources
2. The rays of the two IR light sources are scattered by smoke particles in the sampling chamber and strike the light receiver.
3. IR receiver: the special position of the two IR light sources helps to distinguish between light and dark smoke particles due to forward and backward light dispersion.
4. The patented labyrinth absorbs light emitted by the light sources, thus preventing random reflection. It also captures small fibers and dust particles so that they do not enter the sampling chamber.
5. Redundant temperature sensors (two) measure the temperature.
6. The monitored carbon monoxide sensor measures the CO concentration.

Smart technology for enhanced detection

Desigo detectors with *ASA*technology help ensure a high degree of safety and very early warning for flaming and smoldering fires. The unique system uses forward and backward light scattering technology to provide advanced optical analysis of smoke particles and exceptionally fast response to flames.

Each detector is equipped with two thermal and two optical sensors; this redundancy protects against the false alarms that can arise from steam, dust, and gas while also enhancing the reliability of your fire detection system. These detectors comply with NFPA 76 and are classified as Very Early Warning Fire Detectors, making them ideal for data center applications.

Combine *ASA*technology with an integral carbon monoxide (CO) detector for maximum life safety. The CO sensor responds quickly and reliably to both fire and the presence of carbon monoxide and complies with the fire safety and carbon monoxide codes and standards, UL 2075 and NFPA 720.

Highlights

- No False Alarm Guarantee prevents unnecessary downtime and costs associated with false alarms
- Reliable detection thanks to forward and backward light scattering technology and redundant sensors
- Very Early Warning Fire Detectors comply with NFPA 76, UL 2075, and NFPA 720

Siemens owns one of the largest fire test laboratories in the world. We conduct live fire behavior tests in eight test labs. Our database contains more than 5,000 tests. We factor all of this information into the development of our Desigo fire detectors.