# ASA*technology*

## For intelligent and most reliable fire detection

siemens.com/fire-detection

Due to advanced signal analysis and up to nine selectable parameter sets, ASA detectors ensure very fast, highly reliable detection in demanding environments.

### An innovation that sets new standards

Protecting people and assets and securing business processes are of utmost importance. That's why Cerberus™ PRO provides the ideal fire safety solution for any application area. Detectors with the innovative **ASA***technology*™ (ASA = advanced signal analysis) are the best choice for protecting especially demanding application areas. Because in environments like data centers and industrial production facilities, you need highly advanced technology to ensure maximum safety and optimal protection – with no false alarms.

### Typical application areas

With the capability of earliest detection of flaming fires caused by the combustion of liquid and solid matters, ASA neural fire detector OOH740 and ASA neural fire and CO detector OOHC740 are especially suited for:

- Data centers
- IT and telecommunications equipment
- Hospitals and nursing homes
- Restaurants and canteen kitchens
- Car repair shops and parking garages
- Industrial production facilities

Answers for infrastructure.
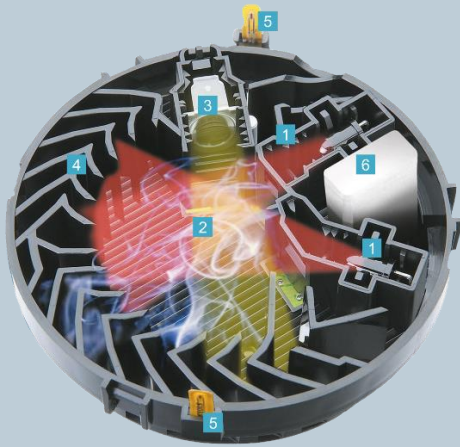
## Legend

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. Two redundant temperature sensors measure the temperature.
6. The monitored CO sensor measures the CO concentration.

## Smart and reliable fire detection

The ASA neural fire detector OOH740 and the ASA neural fire and CO detector OOHC740 ensure the highest degree of safety and fast, very early reaction to flaming fires. What's more, they are immune to deceptive phenomena like steam, dust or gas.

## ASA*technology* and real-time interpretation for highest reliability

**ASA***technology* means that the sensor converts the recorded signals into mathematical components. These are then compared with the programmed values in real time using intelligent algorithms.

## Easily switching parameters to meet changing needs

With the unique **ASA***technology*, you can optimally tailor OOH740 and OOHC740 to always meet current requirements: Just select different ASA parameter sets and easily and quickly switch between them – depending on the time of day or room usage.

## Covering the entire application range sustainably

The detectors are made of environment friendly material. Reduced packaging and cabling as well as detector recycling also contribute to protect the environment.

## Ensuring electromagnetic compatibility

The interplay of the OOH740 and OOHC740's hardware and software is well planned and designed. The two detectors even surpass the defined standards of VdS and EN 54 for electromagnetic compatibility (EMC) of hardware and software.

## Long-term investment protection

**ASA***technology* is so intelligent and reliable that it even prevents false alarms and the associated costs. Another benefit is flexibility: If room usage changes, simply load another parameter set that fits the new requirements into your existing detector.

## Highlights

- Unique detection reliability and protection against false alarms thanks to **ASA***technology*

- One detector family for any application area – from highly sensitive to very robust

- Quick and easy adaptation to process- and time-dependent ambient influences

- Fast and reliable detection of smoke, heat and gas

- Environment-friendly solution – thanks to reduced packaging and cabling

- **ASA***technology* surpasses EMC standards as defined by VdS and EN 54