



All the security you need in one housing
IQ8Quad: The highlight of every fire detection scenario

Safety is the result of efficiency and innovation

This applies to fire alarm systems, too, as especially in this case safety is significantly dependent on the latest technology. The fastest possible and intelligent detection depends on seamless interaction between the control panel, the network, and the system components. State-of-the-art technology enables on-going enhancements.

Using proven concepts, optimizing each part and leveraging on synergies of other components, those elements have been the basis for the latest generation of intelligent fire detectors.

Introducing the **IO8Quad**: this centerpiece of fire alarm systems provides multiple functions and is very compact at the same time, thereby setting new standards for safety and efficiency.



Residential home/
hospital

At senior citizen's homes, for example, **IO8Quad** can act as both a detector and an alarm. Consequently, each room's occupant can receive a speech alarm, allowing evacuation messages to be distributed with the best possible coverage and quality. Furthermore, the **IO8Quad** is resistant to possible deceptive phenomena, such as water vapor. Multiple functions in a compact space provide a higher level of safety.

Hotel



Automobile
manufacturing



Large-scale
catering kitchens



High-bay
warehouses



IQ8Quad – four fire safety tasks, one device



Slim design, cost-saving operation, leading-edge technology – in brief: more safety for less money. The IQ8Quad launches a new era of safety technology; previously, up to three separate housings were needed for a detector, sounder, and flasher. Now, the

intelligent IQ8Quad detector provides far better safety within a single housing.



Detection



Flash lamp



Sounder



Speech

Four functions, one housing:

- IQ8Quad detects (heat, optical, and CO sensor)
- IQ8Quad alarms visually with integrated flasher
- IQ8Quad alarms audibly with the integrated sounder (EN54 alarm sound according to DIN 33404 Part 3)
- IQ8Quad alarms audibly with integrated speech alarm

A perfect combination: IQ8Quad with IQ8Control – detects, flashes, sounds, and speaks



Detection: the detector within the detector



The different IQ8Quad models provide optimal support for various environmental conditions. The IQ8Quad detects with different sensor principles, according to the specific requirements. No matter

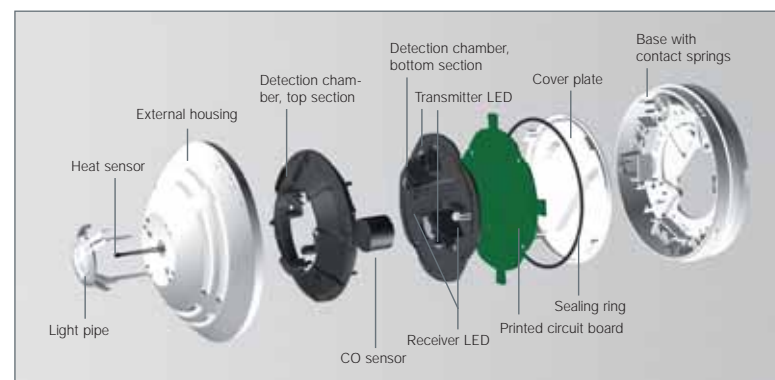
what the application might be, the IQ8Quad always has the right detector inside.

- O – the optical detector provides secure early detection of fires
- T – the heat detector provides reliable detection of fires with either fast or slow temperature rises
- O²T – the optical/heat detector provides reliable differentiation between fires (dark and light smoke) and deceptive phenomena in difficult environmental conditions
- OTG – the optical/heat detector with integrated CO sensor provides additional detection of CO gases

Flash lamp: IQ8Quad flashing intelligence



Almost invisible in stand-by, can't be ignored in an emergency. The 360° flasher is significantly smaller because of the integrated light pipe. Since it only forms the top of the detector it is hardly noticeable and saves material costs and time at installation.





Sounder: the detector you can listen to

Speech: outspoken safety



IQ8Quad cannot be ignored, as the sounder is an integral part of the **IQ8Quad**. With up to 92 decibels, it fulfills the requirements of the highest safety standards as well as the required sounder alarm tone according to EN 54. There is no need to install a separate alarm sounder. The **IQ8Quad** has it all. Sounds great, of course!



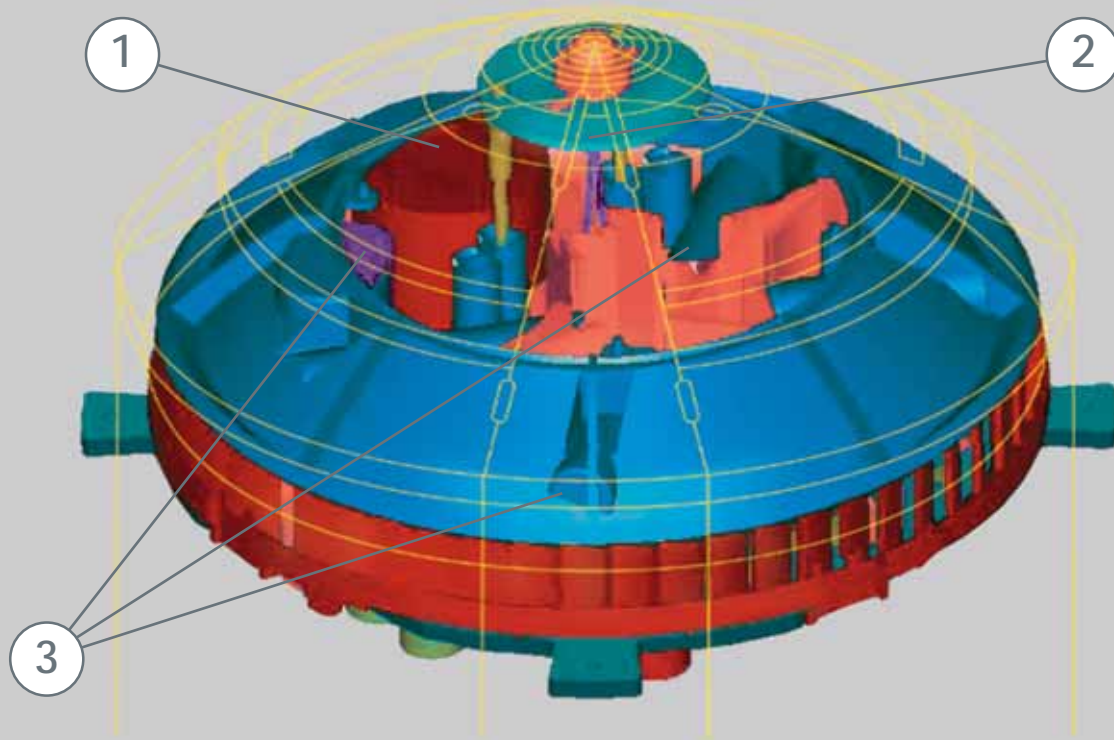
State-of-the-art safety, an **IQ8Quad** triggers an evacuation message immediately. Four pre-programmable voice alarms are available (plus a test voice alarm), ensuring that valuable seconds are gained and the risk of panic is reduced in the case of a fire alarm.

Which message is used is dependent on local requirements. Pre-recorded messages are stored in a database and can be selected based on the need for the highest level of safety. Multilanguage messages are also an option. The future of individual safety includes the possibility of freely programming messages.

More functions, less space

The perfect arrangement of all components results in an elegant and flat design, hence making sure that it fits into various interior designs. At the same time the enlarged detection chamber allows the integration of the latest sensor technology.

IQ8Quad – more technology, more safety



IQ8Quad detects, flashes, sounds, and talks using four different detection principles simultaneously. The result: the highest possible degree of safety under all environmental conditions.

- ① Gas sensor
- ② Heat sensor
- ③ Optical sensor



IQ8Quad, optical smoke detector

The IQ8Quad optical smoke detector is primarily used for the earliest possible fire detection. The optical detection comprises detection of a broad spectrum of smoke and fulfills DIN EN 54 Part 7. Like all IQ8Quad detectors, it has an integrated loop isolator and a low quiescent current (VdS certification G 204060).



IQ8Quad heat detector

The **IQ8Quad** reliably detects slow and fast temperature rises with a single sensor. By using either the fixed or rate-of-rise principle, it detects temperature rises in relation to the ambient temperature. The **IQ8Quad** heat detector is primarily used in areas where smoke or similar aerosols develop on a regular basis and possible open fires might develop extremely fast (VdS certification G 204058 and G 204059).

IQ8Quad multisensor detector O²T

The **IQ8Quad O²T** combines optical and heat sensors and can reduce false alarms in difficult environments. The **O²T** uses an innovative two-angle technology for analysis and "screens" its environment. By doing so, it differentiates between deceptive phenomena and real fires. It is particularly resistant to false alarms (up to 8 to 10 times compared with other detectors) in environments possibly exposed to water vapor (VdS certification G 204061).

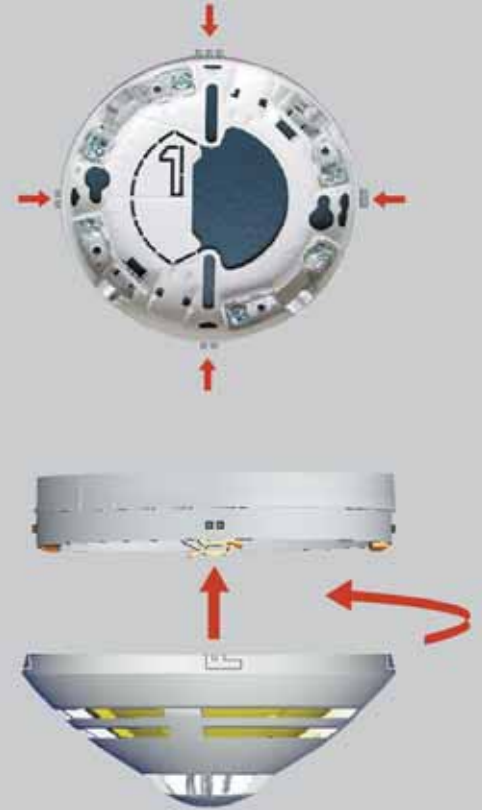


IQ8Quad multisensor detector OTG

Invisible and odorless CO gases are almost always created in the very early phases of a fire. Hence, the most common casualty by far is due to smoke poisoning. The CO gas sensor means that the optical/heat **IQ8Quad** CO detector guarantees not only early fire detection, but also the detection of CO gases. The alarm will be triggered even before the fire itself becomes visible, consequently reducing the possible cause of smoke poisoning.

IQ8Quad – with built-in installation support and investment protection

Total safety within a single housing. A number of benefits are obvious for architects, planners, and installers. Up to now there has been no detector which provides such a level of efficiency and cost-effectiveness. This holds true not only for the entire life cycle of the hazard detection system, but also for daily usage during installation, servicing, and maintenance.



Convenient installation

Despite the flat housing, the **IQ8Quad** offers a spacious installation base, giving more space for cabling, and unused wires can be easily looped through directly within the base.

The plus on safety during installation

No matter which detector is actually installed, the base is always the same. Consequently, the exchange of a detector is extremely easy and convenient. The ring loop itself won't be interrupted during the exchange, the fire detection system and all its components remain in an active state at all times. This allows initial analysis of the wiring even before any **IQ8Quad** detectors are put in place.

Faster installation saves costs

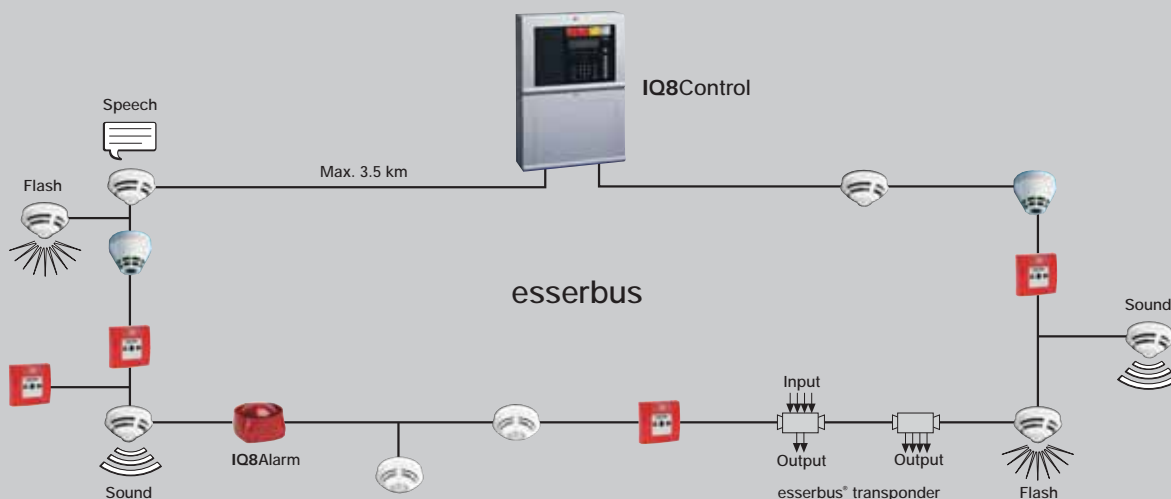
As the **IQ8Quad** is a detector, sounder and flasher all in one single housing, installation time is much shorter than that needed for installing three separate components. Now, only one component needs to be installed: the **IQ8Quad**. Furthermore, it proves to be

very flexible. In the case of a possible upgrade or exchange only the detector needs to be dismantled from the base. In the case of legacy systems, there is hardly any more effort necessary: existing holes previously used by the Series 9200 detector base are compatible, hence upgrading to the latest **IQ8Quad** technology is very easy. The **IQ8Quad** is downward compatible.

tools 8000: programming, service, maintenance

The **IQ8Quad** detector generation works with the control panel 8000 and **IQ8Control**. The tools 8000 needs to read the detector topology only once on site. The actual programming and diagnosis can be done off-site, if required.

IQ8Quad – the esserbus® detector



The esserbus-Plus: currently still the safest and most economical alarm medium. The principle itself is easy: system components are no longer connected with a spur loop wiring, instead they are connected via esserbus, a ring loop providing full addressability. The detector is served directly by the twin-wire analog ring loop. Installation has never been easier, as numerous transponders,

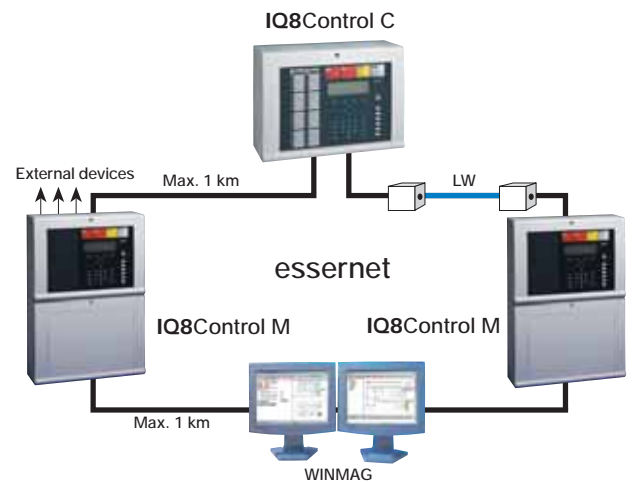
power supplies, and cabling are no longer needed.

- Up to 127 devices on the ring loop
- IQ8Quad and Series 9200 detectors on the same loop (downward compatibility)
- Less installation effort



A broad range of different components can be connected to the esserbus, starting from the proven manual call point up to door arrester systems, which might be needed to comply with regulatory requirements. Controllers and additional inputs are connected via esserbus transponders exactly where required, hence minimizing cabling, while detectors and special detection devices can be connected directly with the ring loop. This ensures adaptability to local requirements and guarantees economical and easy service.

IQ8Quad – good connections with control panels series 8000 and IQ8Control

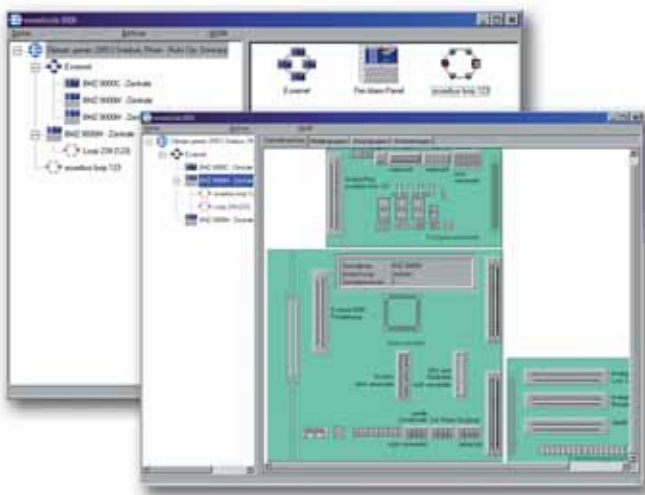


The essernet – the economical safety network for large-scale premises and complex requirements

The fire alarm control panels of the series 8000 and the new IQ8Control – which is required to allow all IQ8Quad functions, such as detection, visual, acoustic, and speech alarm signaling – coordinate all activities of each individual device on the ringbus.

They provide the highest level of flexibility and operational safety. The built-in modularity ensures security of investment and economy, as a stand-alone system or as part of a networked system.

Off-site programming – even from home



tools 8000 provides independence of locality or time. Programming and configuration can be easily done even off-site, providing the initial downloading of the system topology has been done. Only the uploading of data into the control panel requires a local connection, e.g. via USB. Furthermore, tools 8000 can be used for a range of tasks, supporting the entire life cycle of the system – from start-up to regular scheduled preventive maintenance.

IQ8Quad – not only the content counts

Intelligent fire protection includes modern design as well. The form results in the optimum mode of operation and is a decisive factor in its acceptance by the people actually using the building. The requirements for modern fire protection design are: discreet, trendsetting, and timeless, as these components will normally last many years. A detector which follows the latest trends might be regarded as old-fashioned in the future. **IQ8Quad** is the result

of many years of development, its design focuses on multifunctionality and long-term validity while simultaneously incorporating the latest trends in building technology. Fire protection and building technology are now visibly merging, creating a harmonic symbiosis.



IQ8Quad detector

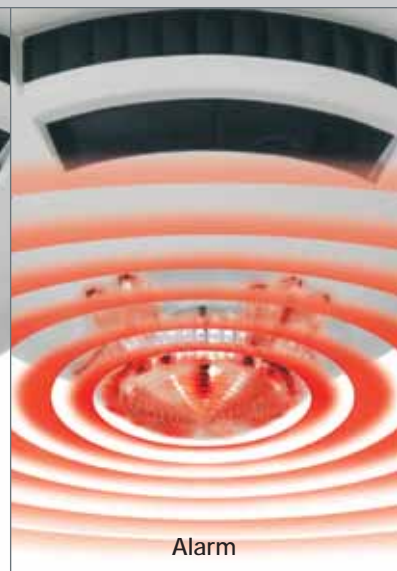
- Flat design, harmonically blending into any interior design
- High-quality, environmentally compatible materials
- More functions in less space
- Enlarged detection chamber to integrate the latest sensor technology



IQ8Quad detector with flash lamp/sounder/speech



Ready



Alarm

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