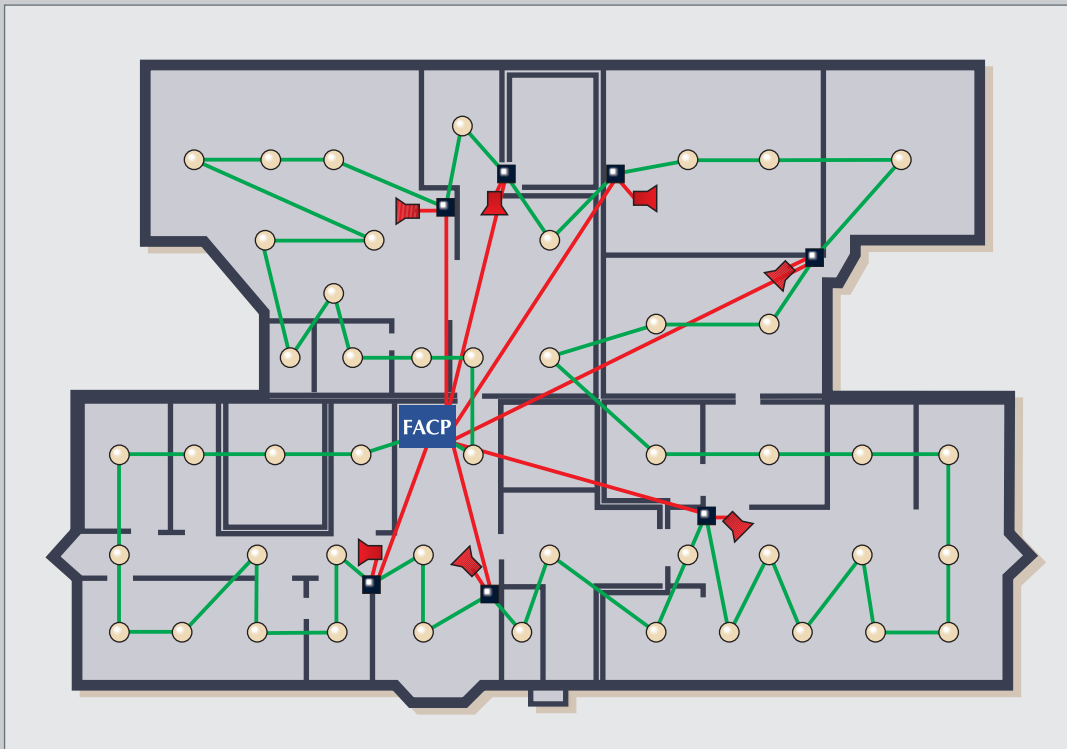




Maximum Security, Minimum Costs

Powered Loop technology for reliable fire protection

The status quo



Loop technology has been used in modern alarm systems for a long time. However, separate power sources must be provided for high-current devices, such as alarm sounders. This means unnecessary costs are incurred for additional wiring, power supply units and longer installation times.

Currently, in the most countries all internal alarm signaling devices have to be monitored, meaning they must be controlled via primary lines e.g. according to DIN VDE 0833-2 (Germany). Also in Germany there is an additional requirement for E-30 functionality (i.d. maintenance of fire cable performance at least 30 minutes) for line routing across fire compartments. Using conventional measures, this regulation can only be avoided

through the installation of costly power supplies, which only supply one fire compartment with energy.

The only exception here is if the electrical circuit system is realized in powered loop technology and the signaling devices are resistant to short-circuits and interruptions. Only in this case can E-30 functionality be done without.

The advantages



The esserbus-PLus facilitates the usage of new and versatile system components. IQ8Quad detectors with integrated alarm signaling device as well as the bus-supplied alarm signaling devices are available as alarm signaling devices of the esserbus-PLus according to EN 54-3. Aside from the warning tone required by DIN VDE 0833-2 (relevant in Germany), all models of these product groups are equipped with 19 more sounds. Additional options include speech announcements as well as bus-supplied optical alarms.

The esserbus-PLus (PLus stands for Powered Loop) offers numerous advantages in terms of security and cost-effectiveness.

- **Maximum planning reliability**
- **Permanent monitoring of the alarm device**
- **No detailed consideration of fire sections for alarm devices and their wiring paths is needed**
- **Measures to ensure continued functionality of wiring systems with alarm devices can be dispensed within most cases**
- **Maximum security in cases of alarm**
- **Savings due to lower material costs and shorter installation time**
- **No separate power supply units for fire compartments**
- **Synchronous alarm signaling**

System components



IQ8Quad: secure even in flat flush-mounted design



Detectors and signalers for the esserbus-PLus: IQ8Quad and IQ8Alarm

IQ8Quad – four fire protection functions, one housing

Flatter design, cost-saving operation mode and an installation base that facilitates tool-free detector exchange. Whereas two to three cases used to be necessary for detector, sounder and strobe, the intelligent **IQ8Quad** now guarantees total security.

Four functions, one housing:

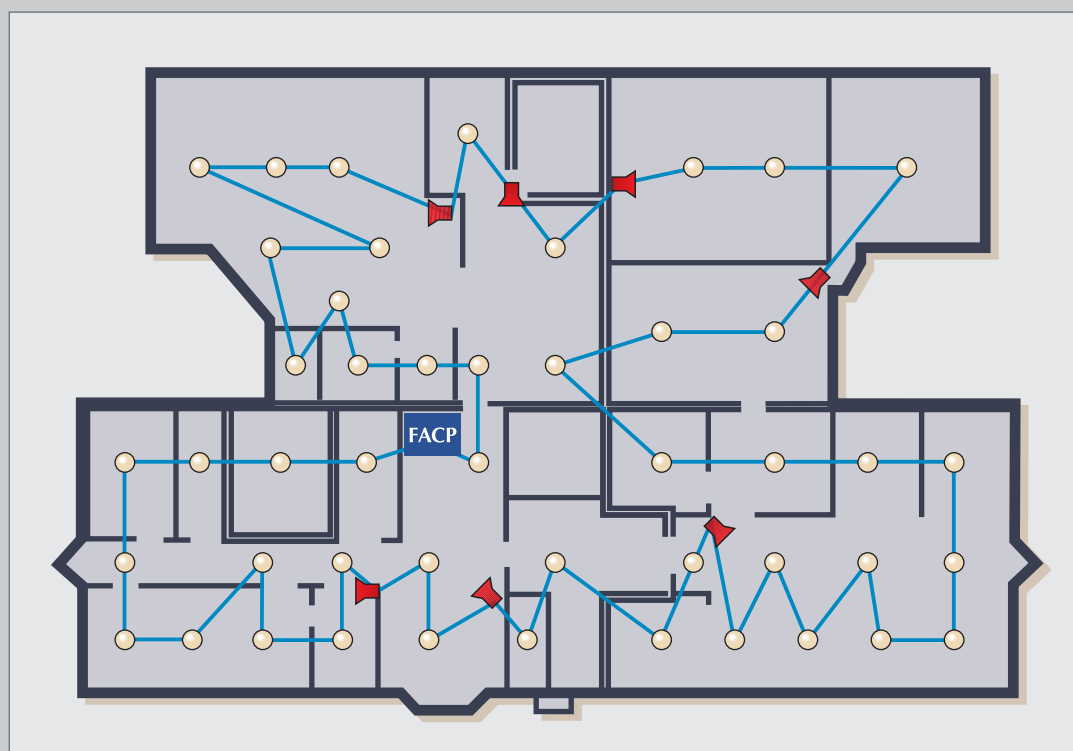
- The **IQ8Quad** detects (heat, optical, combined and optionally with gas sensor, e.g. carbon monoxide)
- The **IQ8Quad** signals acoustically with the EN 54 warning tone e.g. according to DIN 33404, Part 3
- **IQ8Quad** signals optically with integrated strobe
- **IQ8Quad** signals acoustically with speech messages

IQ8Alarm: Signaling device where no detection takes place

IQ8Alarm: The signaling device which signals optically, acoustically and with speech at the same time. Due to its diverse selection of options, the **IQ8Alarm** adapts perfectly and discreetly to every architectural environment, and different designs provide maximum security:

- acoustic signaling device
- optical signaling device
- combined acoustic/optical signaling device
- acoustic signaling device with speech
- combined acoustic/optical signaling device with speech

The innovation



The latest in loop technology: The esserbus-PLus supplies data, signals and power, too, for the direct operation of alarm devices on only 2 wires - VdS certified.

For the first time, thanks to the esserbus-PLus, the certified and approved operation of addressable, loop-powered alarm devices on the loop together with fire detectors and other devices is possible. The esserbus-PLus enables alarm devices to be powered directly, tolerant of short circuits and wire breaks, from the 2-wire analog loop. In other words, all participants, including alarm devices, are connected directly to the bus.

In an alert situation, the loop wiring system increases the voltage to 42 volts and thus provides them with the necessary power. An alarm can therefore be signaled using completely new (wiring) paths: reliably, economically and in conformity with the relevant standards. An additional and unique quality characteristic of the

esserbus-PLus is the synchronous alarm signaling function. All sweep and intermittent tones are therefore no longer distorted unrecognisably by the irregular emission of several tones in the fire compartment.

For a building sector affected by fire esserbus-PLus means the alarm signal is not compromised until the device itself is destroyed by fire. Thanks to the loop technology, the warning devices in the unaffected fire compartments remain functional, even without fireproof wiring.

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