

ESSER

by Honeywell



Safety goes to school

**New concepts for protection from crime, vandalism
and other threats**



Prevention strategies for educational facilities

Inform selectively, evacuate safely

Educational institutions like schools, colleges, universities and also public buildings are subject to higher security risks because of various threat scenarios. These range from vandalism and arson to serious acts of violence. Since events of this kind have been occurring more and more frequently worldwide over the last years, safety in schools and public buildings is one of the main topics in the media. Initial approaches in the form of emergency plans and rules of conduct during emergencies are already available. They are complemented by individual technical security concepts which take all potential risk factors into consideration.

If necessary, they facilitate instant alarm activation, an immediate notification of those responsible and a targeted evacuation. Moreover, such concepts for violence protection need to be feasible both financially and organizationally.

ESSER offers technical solutions for violence protection customized to each type of building. These solutions take the respective premises and their requirements into consideration thereby creating a safe and secure environment.

Hazards, goals, solutions

Individual protection from threat scenarios

Educational facilities are confronted with various types of criminal offenses. The frequency and intensity of such actions are dependent on the type of school, the general social framework, the geographical area and other environmental aspects. The respective protective goals and their degree of urgency have to be decided individually when

planning the security concept. The highest priority is always the protection of human lives and material assets. Additional goals are the upkeep of normal school operation and the conveyance of feelings of security. These objectives are achieved by the individual integration of security systems.

Safety risks/Crime in schools



Rampage



Arson



Vandalism



Theft



Assault

Definition of protective goals



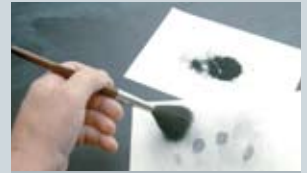
Protection of people and property



Upkeep of normal school operation



Prevention



Preservation of evidence

Technical solutions



Fire detection systems



Voice alarm



CCTV



Intruder alarm systems



Access control systems



Escape route systems



Hazard management

Solutions for schools



Step 1: Consultation



Step 2: Analysis and planning

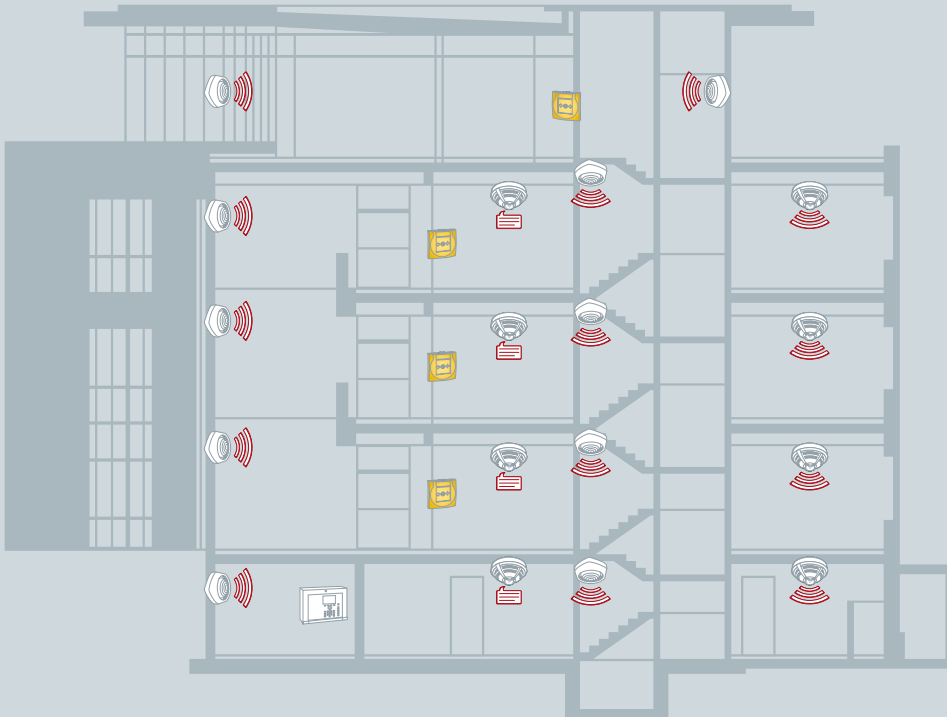


Step 3: Implementation

When every second counts

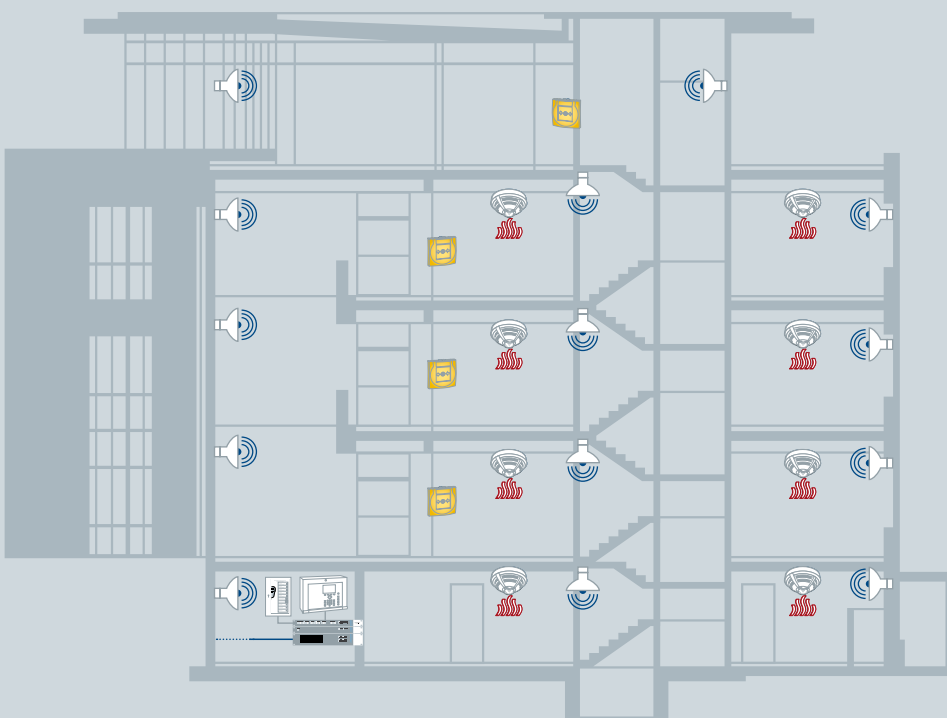
Time is a decisive factor in emergencies, especially for example during a rampage or fire. Different solutions featuring instant alarm activation and safe evacuation can be realized depending on the respective requirements and budgets: from speech alarm via the smoke detectors to an optional direct live

announcement via a professional voice alarm system. The basis for individual security concepts is the fire detection system as the central control unit plus wireless IQ8 manual call points for instant alarm release.



Basic concept: alarm via the fire

If an alarm is activated via one of the installed manual call points, the ESSER IQ8Quad multiple criteria detectors facilitate event-related alarms in addition to fire detection. They unite optical and acoustic signal alarms by sounds and/or voice output functions. Thus they provide effective support during the evacuation: all persons in the building are first alerted by the standardized alarm signal which is then followed by clear instructions adjusted to the respective situation. Based on certain events (e.g. fire alarm),



The extended solution: professio

The integration of the voice alarm system into the fire alarm system enables the targeted alerting of persons at risk in different areas of the building. The voice alarm system is automatically activated when a manual call point is triggered and the preprogrammed evacuation procedure is initiated. The system first transmits a caution signal followed by a voice announcement that is stored in digital form. This announcement is



detectors

messages can be sent throughout the entire building or only selected areas. This not only results in an enormous degree of flexibility but also allows for a temporarily structured and targeted evacuation. Depending on the design of the object, a voice-controlled alarm via IQ8Quad fire detectors and/or IQ8Alarm devices forms a simple and efficient alternative to a more cost-intensive voice alarm system. If required, it is also possible to use the wireless detectors which allow for a flexible positioning pattern

throughout the building as well as easy expansion of the system at a later point in time. This budget-oriented basic concept uses minimal resources to ensure a quick and discreet transmission of security-relevant information to all persons concerned. It can be expanded whenever necessary.

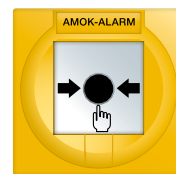
nal voice alarm

transmitted on both the building level in which the alarm was activated as well as on those levels directly above and below. Depending on the event (test alarm, fire alarm), the targeted instructions are activated via the fire alarm control panel interfaces in the building area concerned. It is also possible to issue targeted and situation-related direct live announcements via loudspeakers in the halls and individual classrooms.

With both concepts, additional alarm scenarios are available on request in order to limit misuse, such as an automatic call to an emergency communications dispatch center or the direct forwarding of an emergency call to the police and the fire department. For alarm verification, a video camera can be installed near the manual call points, for example.

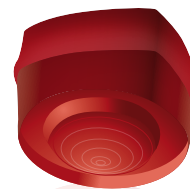


IQ8Quad: multiple criteria detectors with optional speech alarm



Wireless call points: for instant alarm release

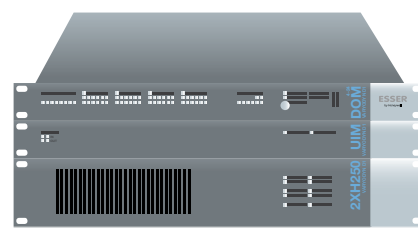
IQ8Alarm: alarm devices with up to 20 signal tones, e.g. the common DIN tone, optical flasher and voice alarm



FlexES: the next-generation control panel



Digital communication unit and speaker: for transmission of evacuation announcements in hallways and classrooms



VARIODYN® D1: Voice alarm system for public address, alarms and evacuation



Complete solutions from a single source

Your reliable installer on site

When planning security systems for schools and public buildings it is especially important to select the right solution from a variety of different system components. That's why the specialized installers we work with have proven themselves to be just as capable as our technology. Due to their long-term experience and ongoing, intensive further training they are your qualified contacts for any questions concerning

school security. Always up to speed with the latest technology, our trusted installers ensure the longevity of your security system through professional assembly, well-planned installation and careful commissioning. When it comes to the protection of human life, you can depend on their knowledge and experience.

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