

FIRE PROTECTION



Effective fire protection and smoke extract systems save lives.

Ventilation and air conditioning systems are an immensely important factor in the fire protection strategy of a hospital. The prime objective in the event of a fire is to avert danger, i.e. to save lives and to protect equipment. This applies in particular to hospitals, where patients are vulnerable because of poor health or restricted mobility. As a consequence, life-saving equipment must be protected, and escape routes must remain clear.

For TROX, the functional reliability of fire protection and smoke control systems has the highest priority: they are subjected to full risk analyses to ensure that they meet the prime objectives. TROX fire protection components and systems complement each other perfectly such that they fulfil their function reliably in the event of a fire. TROX offers network solutions that link fire dampers and smoke extract dampers, which are SIL2-certified and provide overall safety.

TROXNETCOM



Fire dampers with CE marking and declaration of performance according to the CPR.

The ventilation and air conditioning ductwork penetrates fire-rated walls and ceiling slabs. In the event of a fire TROX fire dampers shut to prevent the propagation of fire and smoke through ductwork to adjacent designated fire compartments. They meet the high requirements of EN 15650 and are CE certified.

Hospitals are buildings with intelligent control systems. System intelligence requires communication. Here, TROXNETCOM communication systems allow for TROX fire dampers to be integrated easily and safely with a BMS or with the X-CUBE air handling unit.

SMOKE DETECTORS RM-O-VS-D-LON AND RM-O-3-D



With comprehensive self-monitoring functions (contamination, airflow, electronics) The automatic adjustment of the alarm threshold based on the degree of contamination prevents false alarms and ensures long-term safety.

TROX smoke detectors increase safety levels since they detect smoke independent of the temperature, at a very early stage, and trigger the closure of the dampers. The spread of fire and smoke through the ductwork to other hospital areas can hence be avoided in a timely manner. In hospitals, even more than in other buildings, comprehensive system solutions by TROX ensure functional reliability. Fire and smoke are detected at an early stage such that their spread can be prevented and people can leave the building on smoke free escape routes.