

# Accor Hotel Group Reference



## Safety included

### Comprehensive fire protection concepts for Accor hotel group

Accor is with 4,000 hotels in 100 countries the European market leader and one of the largest hotel enterprises in the world. In Germany alone, this French hotel group maintains 330 hotels. The following brands belong to the group: Formule 1, Motel 6, Etap, Ibis, Suitehotel, All Seasons, Mercure, Novotel, Pullman, and Sofitel.

When it comes to fire protection, this enterprise has put its trust in IQ8Quad detectors from ESSER since 2006. Up to now, 30 Accor hotels have already been equipped with this false-alarm-proof multiple-criteria detector.

# ESSER

by Honeywell

## The Task



Inconspicuous but efficient fire detection technology: IQ8Quad O<sup>2</sup>T detectors from ESSER can even be integrated into architecturally demanding surroundings without attracting attention.

Highest safety standards in the area of fire protection are essential in hotels. The Accor hotel group fulfills this requirement with special care. For this reason, the available fire protection systems in existing hotels are renovated or expanded and individual, integrated concepts are developed for new buildings. According to the head of the department for hotel technology, Mr. Franck Freitag, one essential requirement for the detectors is to

have as small a false alarm rate as possible: They have to be able to reliably distinguish disturbance variables such as steam or cigarette smoke from fire smoke.

The fulfillment of international standards is also decisive. In particular, guests from the USA frequently inquire (even before they begin their journey) about whether the hotel in question has the required fire alarm system and book accordingly. In

addition, the fire detectors used should support evacuation using multilingual speech announcements in case of emergencies. The architectural variety of Accor hotels additionally demands flexible system components which are capable of cable-free operation, depending on structural or aesthetic requirements.

## The Solution

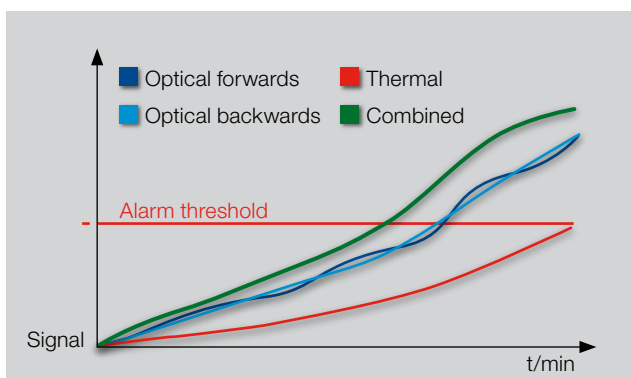
Up to now, a total of 30 Accor hotels have been equipped with ESSER IQ8Quad O<sup>2</sup>T detectors. Where necessary, additional system components by the market leader in fire detection technology were used. The individual solutions were designed and planned together with the technology department of Accor Hotellerie Deutschland and referenced

engineering offices such as K+P GmbH, Ingenieurbüro für Elektrotechnik in Karlsruhe, Germany, among others. The detection process of the ESSER detector was the decisive criterion for the award of contracts. During testing, the two-angle technology of the O<sup>2</sup>T proved itself: Due to the differentiated observation and evaluation of forward and backward

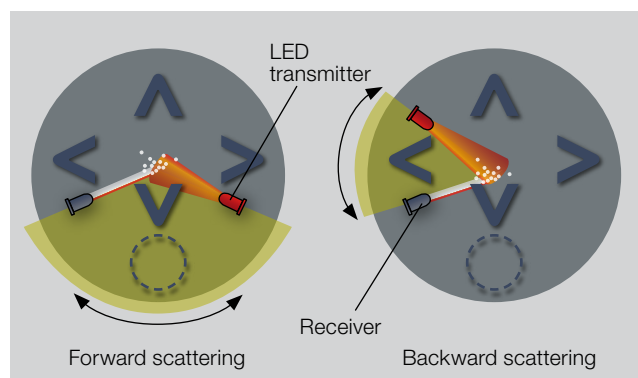
scattering, it reliably recognized disturbance variables and scored with unrivalled protection from false alarm. This convinced the fire protection authorities as well: With the use of the reliable multiple-criteria detector, the necessity of two detector interdependency could even be waived.

### Response characteristics

#### IQ8Quad O<sup>2</sup>T detectors in TF 5



#### Optical two-angle principle



## The Benefits



During a fire alarm, a fire brigade key deposition facilitates perpetual easy access and passage to all rooms protected with fire detectors and/or automatic extinguishing systems.

In the future, disturbance variables such as steam from showers will no longer lead to unnecessary false alarms in Accor group hotels. The IQ8Quad O<sup>2</sup>T detector clearly increases the level of certainty in the recognition of smoke from fire, at the same time dramatically reduces the false alarm rate, as it is able to clearly distinguish fire smoke from disturbance variables.

In addition, the detector functions as an optical and acoustic signaling device and enables a quick evacuation with its speech function.

The IQ8Quad O<sup>2</sup>T detector not only reliably detects in emergency situations – it also initiates an orderly evacuation via corresponding multilingual speech announcements.

The O<sup>2</sup>T is able to generate four different speech announcements – even multilingually – and thus even guarantees help for international guests by securing their orientation. Induced by specific events (e.g. fire alarm), messages can be reproduced for the entire building or only certain areas. This not only facilitates enormous flexibility, it also allows for an orderly evacuation in a timewise fashion.

In addition to the sometimes complex project planning, the various Accor hotels often have special designs to be considered. Since the IQ8Quad

Highly visible emergency exit signs support the evacuation in the case of a fire.

O<sup>2</sup>T has the option of being installed as a wireless detector in buildings – flexibly and without cables – it even fulfills all of the aesthetic demands of historically protected premises, while still conforming to the current norms and guidelines. Thus, in the case of an elaborate ceiling construction made of wood and glass in the Mercure Hotel Braunschweig, Germany, structural measures could be refrained from during the hallway installation by using the wireless model.

## The Products



IQ8Quad O<sup>2</sup>T speech alarm detector

IQ8 Wireless

FACP IQ8Control M

### IQ8Quad O<sup>2</sup>T

The O<sup>2</sup>T detector is ideal for usage in areas with disturbance variables. As a “dual” smoke detector, it works according to the optical light scattering principle with two different scattering angles, and offers two decisive advantages: It markedly increases the level of certainty in the recognition of smoke from fire and

at the same time dramatically reduces the false alarm rate, as it is able to clearly distinguish fire smoke from other disturbance variables. As a wireless model, it can also be subsequently connected to a conventional installation without difficulty.

### Fire alarm control panel IQ8Control M

The modular fire alarm control panel is ideal for objects with complex security requirements. It facilitates the connection of up to seven esserbus loops and supports both the connection of wireless components as well as the innovative alarm via the generation of IQ8 detectors.

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