



Theben HTS AG presence detectors pass interview stage at university



Efficient lighting on campus

The proof of the pudding is in the eating! The building technologists at the University of Konstanz followed that proverbial advice when they were looking for solution to provide tailored lighting control. The decision had already been made to avoid relying completely on technical details. But there was dissatisfaction with the existing motion detectors for lighting control on the extensive campus by Lake Constance. The large, narrow and winding communal areas with their stairs and landings place great demands in terms of monitoring and detection areas. During his search for suitable sensors, the head of electrical engineering Alois Martin became aware of the devices of Theben HTS AG. Now, some 300 presence detectors provide comfortable and secure lighting across the university and help to save energy at the same time.

Function

- Secure and comfortable lighting conditions
- Efficient use of energy
- Light as required
- Reliable detection in passages and stairways
- Switch off and dimming with sufficient daylight
- Control of different means of lighting
- Monitoring of people sat down
- Integration in technical building management

Solution

- compact passage KNX presence detectors with rectangular detection areas for corridors
- compact office EIB presence detectors with square detection area for seminar rooms
- High detection quality
- Mixed light measurement
- Variable time delay from 30 seconds to 20 minutes
- Use of KNX presence detectors



ThebenHTS presence detectors have a high detection quality in large stairways.



ThebenHTS presence detectors can also master rigorous use in the research labs.

Adaptable to situations

It's all part and parcel of the architecture of the university buildings: The auditorium, the faculty buildings, students union and cafeteria, university library etc. are all connected to each other by corridors, stairs and halls. These all have to be well-lit round the clock for public access. Certain areas such as the library are open in the evening as well. And saving energy is also the order of the day. So it stands to reason: Provide tailored and efficient lighting using presence detectors. Detailed on-site tests revealed the high quality presence detectors from ThebenHTS covered all movement in long and winding corridors. The detection of the selected compact passage KNX models, that provides a rectangular detection area of up to 30 metres is perfectly suited to each individual situation. Where the particular room requires a square

detection area, ThebenHTS compact office EIB presence detectors are the ideal solution. All presence detectors can work fully automatically. They provide comfortable and secure lighting when people are present.

Off with daylight

Following the positive experiences, the lighting in the biology building and the seminar rooms was controlled using ThebenHTS presence detectors. The reading areas and seminar rooms with seated occupants presented a particular challenge. The high detection quality of compact passage KNX and compact office EIB ensure that people beavering away at their studies and research are not suddenly left in the dark. The desired energy savings are achieved thanks to the ThebenHTS presence detectors are fitted with mixed light meters and are therefore able to dim or turn off lights given enough natural daylight.



Client	University of Konstanz Konstanz www.uni-konstanz.de
Project	Control of lighting particularly in corridors, passages, stairs, laboratories and seminar rooms
Planning & Integration	Alois Martin, University of Konstanz Werner Henke, Vermögen und Bau BW Supported by Theben HTS AG

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Theben AG | Hohenbergstraße 32 | 72401 Haigerloch | Phone +49 (0) 7474/692-0 | Fax -150 | info@theben.co.uk | www.theben.co.uk