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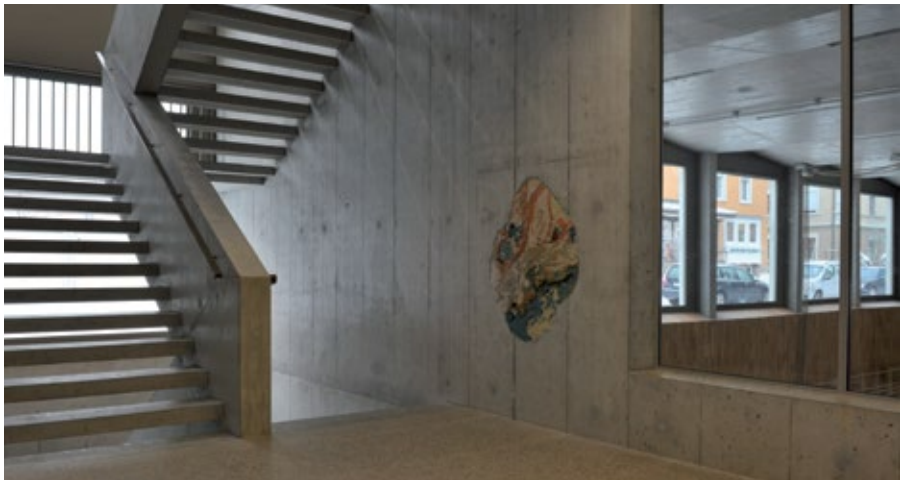
energy saving comfort

PlanoCentro KNX
The invisible solution with the large detection area

The new Säntishalle, designed by architects Michael Meier and Marius Hug, makes an impression at first sight with its modern architecture. A closer look reveals that the building technology to be absolutely contemporary: Working in harmony with the KNX building system control, the award-winning PlanoCentro KNX presence detector ensures presence-dependent and energy-efficient lighting control.
The Säntishalle school building in Arbon was officially handed over after a construction period of just 15 months. The Säntisbau has four modern classrooms with adjoining common rooms above a bright, inviting and large gymnasium. The multi-purpose room in the main building has room for large-scale events such as concerts, plays and briefing sessions organised by the education authority. Next to the spacious foyer, there is a cafeteria, where the school offers organised lunches.

Function
- Presence-dependent lighting
- Automatic lighting control
- Ease of use Extensive and reliable detection
- Minimal energy consumption
- Architecturally-sympathetic design

Solution
- PlanoCentro KNX presence detector
- Flat design with special frame colours
- Rectangular detection area
- Mixed light measurement
- Suitable for LEDs, fluorescent, compact fluorecent, halogen and incandescent lamps
- High-quality technology with clear KNX programming



With its sensitive detection capability, the PlanoCentro guarantees individually-tailored and energy-efficient lighting and climate control.

Almost invisible technology

The modern architecture of the Säntishalle also requires state-of-the-art solutions in building technology. All the lights are integrated into the ceilings to make the ceiling as discrete as possible. Visible elements have been painted with special RAL paints to make them appear almost invisible.
In terms of visual effects, presence detectors are one of those building components that architects would ideally like to make invisible. The extremely flat PlanoCentro KNX presence detector from ThebenHTS brings this target much closer: Installed flush to the ceiling, it fits in perfectly with the architecture. Moreover, the larger than normal detection area means less detectors have to be installed on the ceiling. Only one presence detector per classroom was needed in the Säntishalle. The technical benefits of the PlanoCentro KNX also speak for themselves. The detection area is square and thereby matches typical room layouts. It covers an area of up to 100 square metres. This makes it the first presence detector on the market to combine an extremely flat design with such a large detection area.

"Beautiful design, simple and a clearer structure: This applies to the architecture and the technology in the Säntishalle."

Gabriela Traxel, Michael Meier and Marius hug, Architekten AG, Zürich

Comfort and energy-efficiency

Demands for intelligent and energy-efficient building services engineering makes it essential for rooms to be lit, ventilated and heated when they are being used. The use of a room dictates the setting of the PlanoCentro. The presence detectors in the corridors are set to fully automatic: The lights only come on when required. The presence detectors are operated in semi-automatic mode in the classrooms to allow the teachers and pupils to choose the lighting themselves. If the light is still on at the end of a lesson, it will switch off on its own after a set length of time. Moreover, if the room is briefly occupied, the detector will reduce the time delay itself.

Choice of functions as required

The PlanoCentro KNX is configured by the system integrator using the ETS4. A wide range of intelligent, energy-saving applications are available. For example, two independent brightness thresholds make it possible to set different brightness levels for weekdays and weekends. The threshold can be set on site using the caretaker's touch panel according to the prevailing brightness level. An integrated infra red receiver also makes it possible to control the room remotely. Daniel Schär, project manager and system integrator at ETAVIS Grossenbacher, uses the SendoPro remote control for an easy set-up. This enables the parameters to be adjusted efficiently and easily on the spot or the option of the installed ThebenHTS presence detector.

Customer	Primarschulgemeinde Arbon | Schlossgasse 4 | CH-9320 Arbon
Project	Beleuchtungssteuerung in der Turnhalle und in den Schulzimmern
Planning & Integration	MARQUART Elektroplanung + Beratung | Kriessernstr. 40 | CH-9450 Altstätten Tel. 071 757 03 00 | www.maq.ch ETAVIS Grossenbacher AG | Oststrasse 25 | CH-9006 St. Gallen | www.etavis.ch

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