



Award-winning PlanoCentro presence detector in state-of-the-art architecture



PlanoCentro KNX

Natural and artificial light

The Forum Holzbau is not just a multi-function building with meeting and office space. It houses the Association of Joiners and the Timber Trade in Baden-Württemberg (Verband des Zimmerer- und Holzbaugewerbes Baden-Württemberg e.V.) and eight other organisations from that sector. The modern architecture, the bold timber structure and climate-friendly energy plan of the 2011 building demonstrate the enormous potential of wood as a building material. You can smell and feel the wood here as all the interior surfaces are untreated. The optical impression comes alive through light: From natural light that floods the atrium during the day and from artificial light that accentuates the wood ambience at dusk and at night.

PlanoCentro presence detectors are in demand here. Discreetly built into the wooden ceiling, they automatically switch the lighting from a decent basic brightness to comfortable light when someone enters the central hall and back when the room is vacated.

Function

- Automatic lighting control
- Harmonious integration in interior decor made of wood
- Detection in different room scenarios
- Impressive, comfortable and energy-saving lighting
- Integration in KNX installation bus technology

Solution

- Light control with presence detector
- Flush-mounted ceiling device in flat design with covers
- Square detection area for accurate and easy planning
- Two light channels for switching and constant light control
- Brief-presence function with reduced time delay
- Possible master/slave or master/master parallel switching
- Configuration via ETS Engineering Tool Software
- Brightness set point values can be set via the bus object
- Scene functionality



Daylight and artificial light accentuate the wooden decor.

To frames for ceiling installation

The project was already underway when the Kienle Engineering Office became aware of the new KNX PlanoCentro with its super slim design and they recommended them as a late alternative to the planned surface-mounted detectors.

Colour matching to the silver fir wooden ceiling was achieved with the silver-coloured version (ESR-A) and with white frames (EWH-A) for plastered ceilings. And the subsequent planning was straightforward: The large square detection area of the detector enabled symmetrical positioning in the ceiling without having to cut corners in terms of detection quality

Flexible for seminars

If people are present in the atrium, the detectors send a switch-on command to the bus at light levels below 150 lux. If someone briefly walks through, as in corridors and stairways, the brief-presence function prevents an unnecessarily long time delay.

„The flat presence detectors found immediate approval from the building company and fit in very well with the internal architecture.“

Thomas Gröner,
Electrical Engineer,
KIENLE Beratende Ingenieure GmbH

The presence detectors in the meeting rooms are also configured for constant light control. Artificial light then augments the daylight by the necessary difference to the required brightness setpoint value, which further reduces electricity consumption. As the rooms can be partitioned, a KNX contact enables the two PlanoCentro KNX devices to be switched from master/slave mode to individual mode when the dividing

wall is closed. The presence detectors have to be overridden during meetings with visual presentations to prevent the light coming on when the room lights are dimmed. This is achieved using scene push buttons, which simultaneously close blinds, bring up the screen and switch on the projector.

PlanoCentro KNX detectors also control the lighting in the toilets in the basement. A total of 23 presence detectors in the Forum Holzbau provide comfortable and energy-saving lighting.

Moreover: The PlanoCentro won the „if design award“ for product design in 2010.



Harmonious integration of the PlanoCentro KNX presence detector

Client	Verband des Zimmerer- und Holzbaugewerbes Baden-Württemberg Hellmuth-Hirth-Straße 7 73760 Ostfildern www.holzbau-online.de
Project	Lighting management in multifunctional building with meeting and office space
Architects	Glück+Partner GmbH Freelance Architects BDA Augustenstraße 87 70197 Stuttgart www.glueck-partner.de
Planning & Integration	Heldele GmbH Julius-Hölder-Straße 39-41 70597 Stuttgart www.heldele.de

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