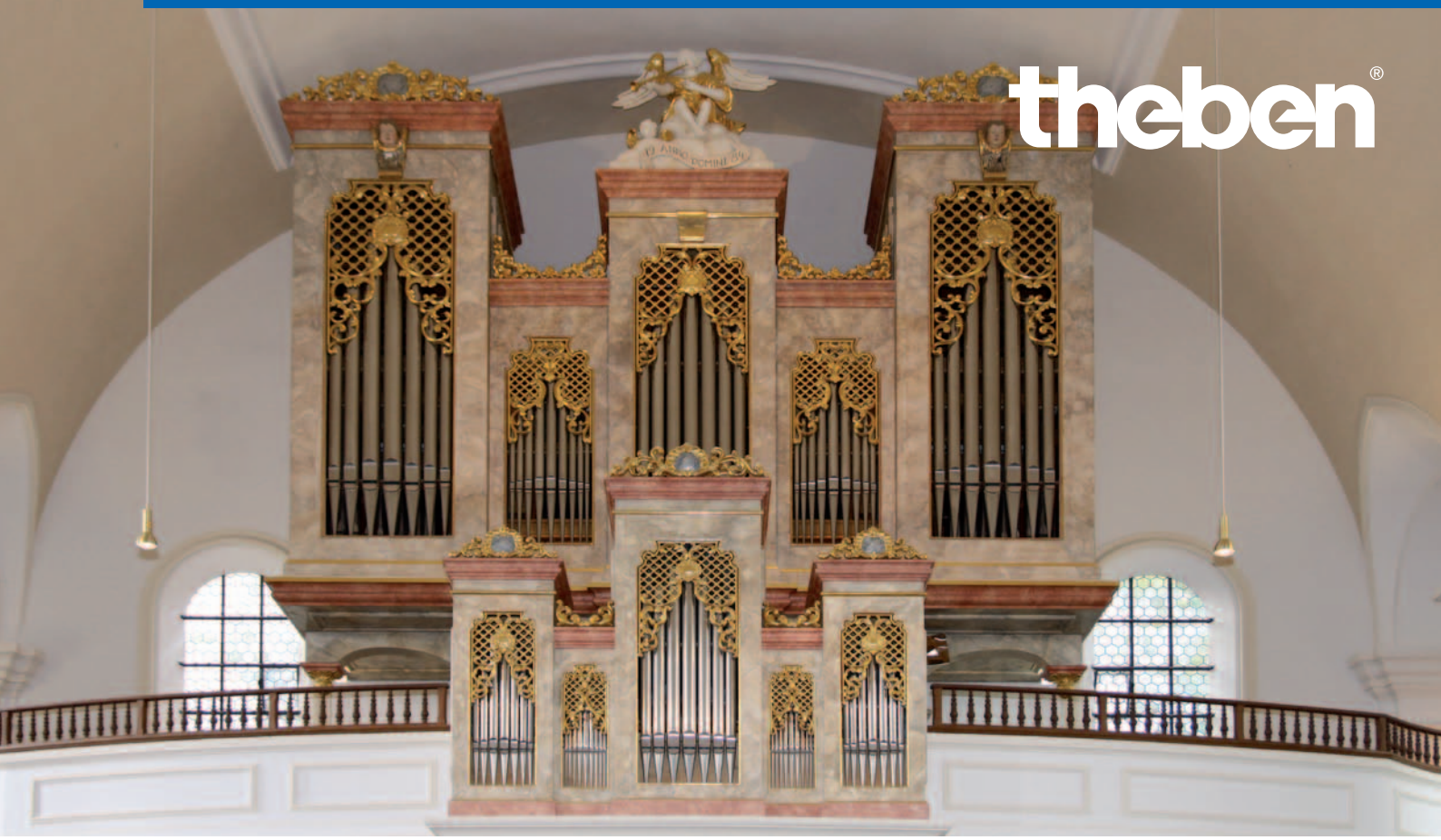

ST. JOSEPH PARISH CHURCH IN TUTZING

Religious lighting scenes

reddot design award
winner 2009

Lighting supports new liturgy

The Tutzing parish church with its two onion towers is the landmark of this tranquil spot on Starnberger See. The baroque house of God was renovated in time for its 80th anniversary in 2009. It was not just a question of a "new coat of paint" but also lending expression to a new liturgical order in the church and to create closer contact with the worshippers by redesigning the altar, pulpit and font. A new lighting concept plays an important role here. Lights and spotlights emphasise the interior design and restored paintings. The various lighting sources can be combined with dimming values into lighting scenes for suitable lighting conditions for church services, events and for visitors. The lighting system is programmed, operated and controlled by Theben KNX devices.

FUNCTION

- Automatic lighting control
- Control of different lamp types
- Scenarios with different switching statuses and dimming values
- Decentralised and unobtrusive operation in the chancel
- Central control and operation
- Easy adjustment of lighting scenes
- Flexible technology for changes and upgrade

SOLUTION

- Lighting control with KNX building systems technology
- Cost-effective installation with Theben MIX range
- Numerous parameters for switching and dimming
- Eight lighting scenes per output possible

theben®

Varied requirements of church lighting: The right light should be provided in the chancel depending on the particular church service and event.

The visualisation on the 22-inch touchscreen with church layout provides clear view of lighting functions.

MIX range stands out with its economy

Lighting has a range of functions to fulfil in churches. It has to light up entrances, passages and staircases, highlight internal fittings, enable worshipers to read, while at the same time setting a solemn tone. Depending on the liturgy, other lighting conditions are meaningful as, for example, during religious festivals like Easter, New Year or for the midnight service at Christmas. Switching on and off must not be disruptive. It also depends on the design of the light sources that provide harmony and set tones. Up till now, such lighting design issues have been resolved in conventional ways where lighting circuits are operated via a panel in the vestry. The congregation with its electrical expert Florian Hiebel was thinking of a modern solution. Based on his suggestions, it was decided to opt for a programmable lighting control with KNX. The Theben MIX range stands out in the selection of components through its flexibility and economy.

Demanding requests fulfilled

The new lighting system in the Tutzing parish church covers the nave with chancel, organ loft and vestry. General lighting is provided by fluorescent lamps. Accent lighting is provided by spotlights. The lighting circuits are switched and dimmed via 8x basic module switch actuators (RMG 4 S KNX) each combined with 2x universal dimmer actuators (DME 2 S KNX) extension modules plus a 6x 1-10 Volt (SMG and SME) extension modules. This keeps the investment in the modern bus system within reasonable bounds. As two extension modules can be added to each basic module in the MIX range, a manageable number of bus components is sufficient for complex lighting control. Using the large number of available parameters, including up to eight scenes per output, the system integrator Valentin Winkler from Elektro Schröder was able to meet "the particular requirements of Florian Hiebel". This enables switching statuses and dimming values on the lighting circuits to be easily allocated via a touchscreen in the vestry for different scenarios such as "church service", "concert" or "basic lighting". The scenes can be called up centrally as well as on the spot during events via the VARIA 826 KNX WH multifunction display installed in the chancel and in the organ loft. The visualisation based on the "Eisbär" software also contributes to central control, controls basic lighting via a time switch and provides an 365-day timer program.

"The biggest challenge for me in this project was the very particular functional requirements, which were met by the Theben KNX devices."

VALENTIN WINKLER SYSTEM INTEGRATOR ELEKTRO SCHRÖDER, TUTZING

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