**B.E.G. technology in a Swiss showpiece**

**Swisslux equips new building for the Centro Sportivo Tenero**

In the building sector, the use of modern building systems technology helps to make buildings climate-neutral, more efficient and more comfortable. A look beyond EU borders reveals a worldwide development. In Switzerland, Swisslux AG offers a comprehensive range of services for intelligent lighting technology. In addition to its own range of luminaires, it relies on KNX and DALI components from B.E.G. Brück Electronic GmbH. In the unique showcase project, the National Youth Sports Centre Tenero CST, the Swiss company ensures optimum lighting.

The CST Youth Sports Centre is a facility of the Swiss Federal Office of Sport (BASPO). It serves to promote youth sport and is also used as a sports camp for elite sport. Swiss professionals such as sprinter Ajla Del Ponte and swimmer Noè Ponti train here for competitions. In addition to the sports facilities, school and vocational training is also offered.

The CST has an excellent infrastructure with numerous facilities where over 160 sports are practised. There are also training rooms, a canteen, an accommodation building with 280 beds and a campsite. There are five large buildings on the 350,000 square metre site, which is open to the public.

The Swiss architect Mario Botta is in charge of the architecture. Botta and his buildings are world-famous. His works include numerous museums such as the San Francisco Museum of Modern Art MOMA and religious buildings such as the cathedral of Évry and the church of San Giovanni Battista, Mogno. He designed four of the five buildings on the site of the youth sports centre. His most recent multi-purpose building, Brere, was completed in 2023.

The brick-red building welcomes visitors in an imposing portico on columns. This portico becomes a canteen terrace in summer. Brere comprises a double hall for artistic and apparatus gymnastics on three floors, a canteen with 440 seats and 13 theory rooms with 20 to 25 seats each. Some of these have movable walls so that they can also accommodate larger groups. The lecture theatre with multimedia equipment is ideal for conferences and events with up to 250 participants. The flexible use of the building is supported by an intelligent, equally flexible lighting control system.

**Ideal lighting thanks to occupancy detectors**

Swisslux AG was awarded the contract for the building technology for the new building. The Swiss government also requires all new buildings to be equipped with state-of-the-art technology, e.g. KNX installations. In Brere, building automation is intended to make room utilisation simple, flexible and more convenient.

Those staying in the accommodation building can enjoy full board. Intelligent KNX occupancy detectors in combination with KNX DALI gateways ensure a pleasant atmosphere in the simple canteen.

Specifically, B.E.G. Luxomat PD2 S MAX ST KNX/W and PD2 S 180 UP ST KNX EDI/W occupancy detectors were installed in all areas of the building (stairwell, corridors, training rooms, open spaces, restaurant, basement, sports hall) and networked via KNX and a DALI-KNX interface. All remote-controlled B.E.G. detectors can be configured using the BLE-IR adapter in combination with the B.E.G. One app. The BLE-IR adapter can also be used as a luxmeter.

An orientation light guides users safely and energy-efficiently through the building. The occupany detectors offer suitable configuration options. Their sensor operation can be changed via the KNX server, which is highly appreciated by customers.

**Advantages in operation**

The sensors remain very sensitive even over long distances and also detect the brightness very accurately. They transmit the values to the DALI control components - even across sensors - for precise daylight-dependent light control. This results in a very linear dimming curve without steps that cannot be perceived by those present.

The double gymnasium offers ideal training conditions for artistic and apparatus gymnastics. This also includes optimal and energy-efficient lighting. Spinelli SA developed lighting scenarios, so-called scenes, for the multi-purpose halls and gymnasiums so that the halls are optimally lit at all times for the respective purpose - i.e. for conferences, games, training sessions or simple cleaning. When programming the scenes, the KNX integrators from Spinelli were able to count on the support of the Swisslux customer advisor. "A supplier who doesn't leave you in the lurch after the sale, but accompanies you until the end of the project, is a rare added value these days," says Giuseppe Buongallino, integrator at Spinelli SA about the good cooperation.

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