



Sensor Technology in Bathroom and Sanitary Areas

Leinfelden-Echterdingen, 10 March 2022. The bathroom and sanitary area is increasingly becoming an oasis and feelgood place. This involves a stronger focus on the convenient operation of sanitary items and the control of technology. Sensor systems and HMI components allow to strike new paths. The products from EBE sensors + motion offer solutions for a variety of bathroom applications.

SmartHome and wellness are major trends in the sanitary area. Bathrooms are no longer installed according to the principle “pragmatic, functional, good”, but are becoming veritable wellness oases within people’s own homes. Design and convenience are paramount. These solutions can be implemented by means of smart design concepts and innovative sensor systems.

Contactless Control and Fittings

Nowadays, even fully closed shower panels equipped with haptic elements can be realized by means of capacitive buttons as well as sensor-based and fully integrated encoders from EBE. They provide the feel of conventional fittings, but constant humidity and caustic detergents cannot do any harm. This paves the way to completely new designs and fitting solutions.

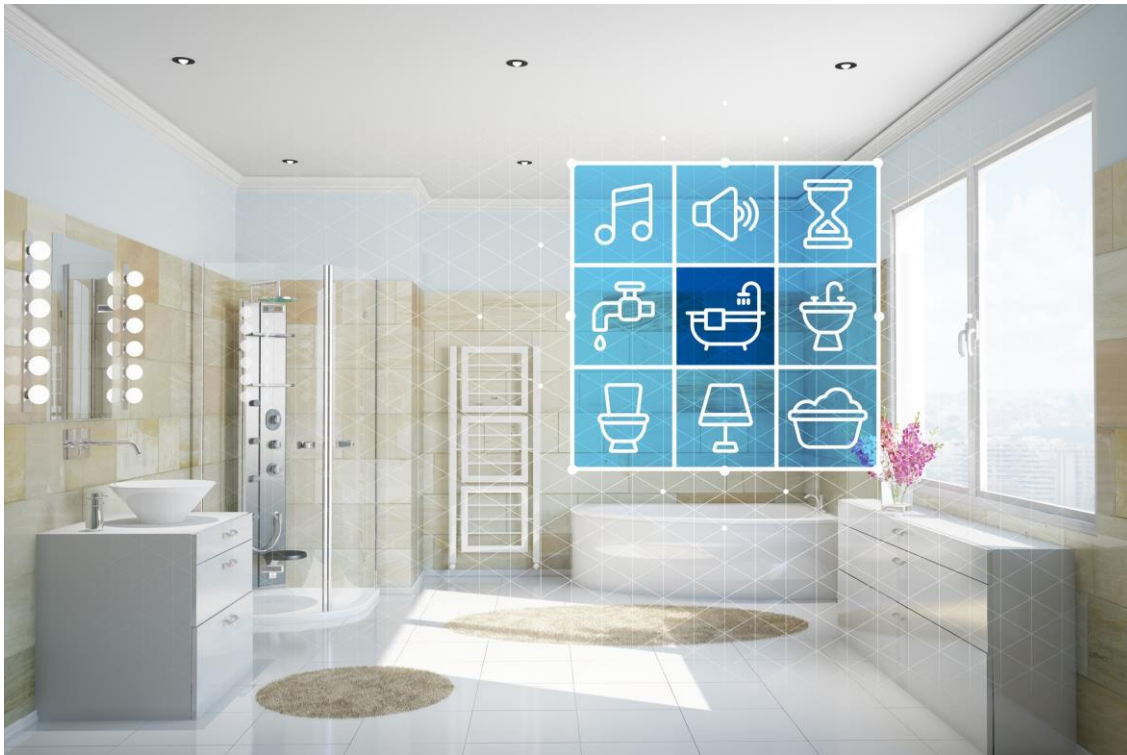
In particular in public washrooms and toilets, hygiene is indispensable. For this reason, sensor-based flushings and fittings equipped with infrared sensor systems are widespread. As an alternative to this concept, control elements based on capacitive or inductive sensor systems are also applicable. Gesture recognition by means of ToF sensor systems is significantly more reliable and provides many more options for innovations in the sanitary area that conventional infrared sensors are unable to offer. From light control to bathroom mirrors or toilet and washbasin fittings - applications in the bathroom are unlimited.

Level Measurement in Difficult Areas

Level sensors from EBE sensors + motion are used especially where conventional sensors reach their limits. No matter whether due to particularly limited space or the handling of problematic liquids such as acids, bases and adhesive media. The capacitive sensor system attached from outside replaces floaters or rod sensors, thus promising enhanced hygiene, fewer malfunctions caused by incrustations or adhesions, and thus significantly longer durability compared to currently common solutions. The usage ranges from modern

shower toilets in private households to soap and disinfectant dispensers in hotels.

Due to the possibility to individually adapt to the requirements of each customer, special wishes with respect to the development of sensor systems not realizable by conventional sensors can now be fulfilled. To give an example, a wide variety of system interfaces is realized on demand. Furthermore, due to their particularly flat and small design, the sensors are highly suitable for direct installation within small spaces. In this way, new convenience and service concepts in the sanitary area can be realized far beyond the standard.



Picture file: EBE_Sensorik_in_Sanitaer.jpg

Picture text: In modern bathrooms, innovative sensor systems for greater convenience in the bathroom are increasingly being used.

Picture source: adobestock.com/ Robert Kneschke

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Short Profile

The company EBE Elektro-Bau-Elemente GmbH (brand name: EBE sensors + motion) based in Leinfelden-Echterdingen near Stuttgart develops and manufactures OEM-products in the fields of sensor technology, components for HMI-interfaces as well as actuator and mechatronics technology. The focus lies on capacitive and inductive sensors based on the technologies developed in-house and mechatronic solutions for industry, appliances, medicine and mobility. The sensor program also includes level sensors, pressure sensors, position sensors and capacitive buttons. Furthermore, EBE develops and manufactures customer-specific solenoids and robust rotary switches, buttons and encoders and adapts them to the customer requirements. The company sees itself as a competence center for the development and production of sensor systems and drive technology.

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