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Planning tips for electromechanical windows and doors

People appreciate the extra security and comfort provided by Smart Home windows and doors. What needs to be taken into account when selecting products can be found in the technical information provided by ift Rosenheim.

Consumer studies show that most users want smart home functions that are easy to operate and install. Equipping windows and doors with radio-controlled burglar and glass breakage sensors does not require cable connections and could quickly improve security. Easy access through the entrance door or through the garage by using a motor lock in conjunction with fingerprint, numeric code, radio chip (incl. near-field communication technology), smartphone or voice control is also frequently used. Some suppliers offer "Smart Home-Ready" products where, for example, an automatic front door only needs a power socket nearby. However, the good old mechanical lock with locking cylinder should not be missing if power, battery or technology fails. For components with electrical components, the following aspects should be considered when choosing a product:

1. installation and configuration should be plug-and-play and so simple that it can also be operated by the building owner after instruction.
2. high reliability and durability (guarantee for spare parts, service and updates) for the Smart Home components for 10 to 15 years, as the life of windows and doors is 20 to 30 years,
3. sufficient cable length to reach the next electrical junction box,
4. cable routing with protected course in the window profile without kinks and sharp edges,
5. avoidance of tensile stress on cables due to movement (planning of movable cable transitions),
6. moisture protection of all electrical components (Attention: condensation water) according to ift guideline EL-01/1 "Electronics in windows, doors and facades", as the IP protection classes do not take into account the risk of condensation water.

Further tips can be found in the ift technical documentation (<https://www.ift-rosenheim.de/fensterbau-frontale-2018-smart-home>)

Key picture

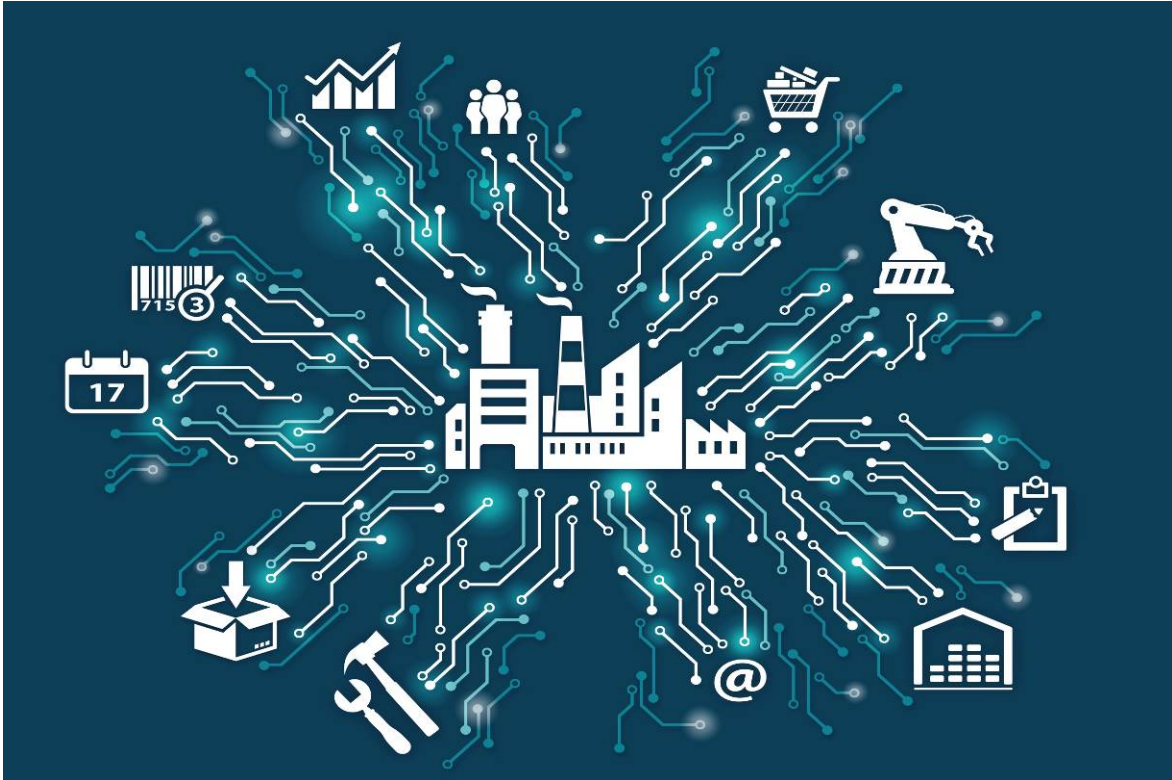
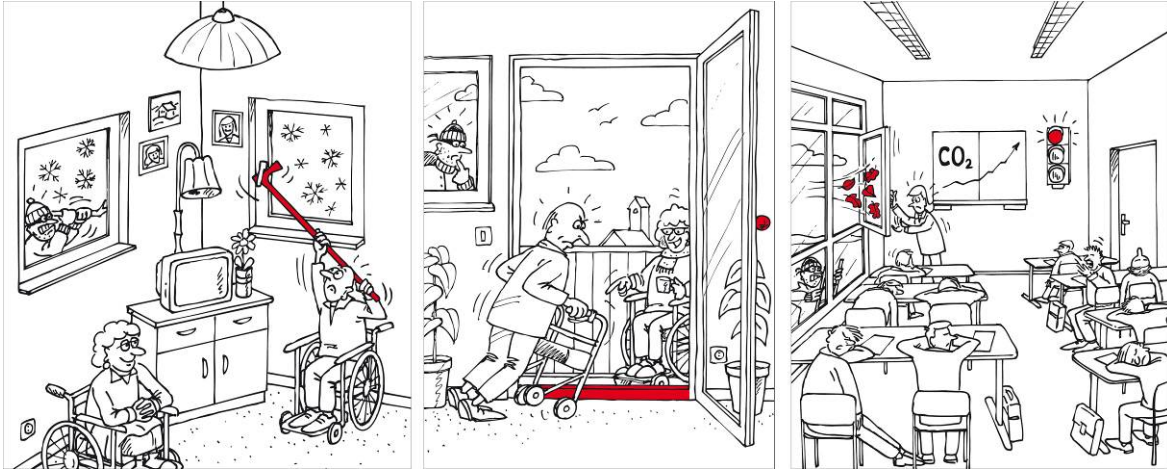


Bild 1 Digitalisation and intelligent components make our lives more comfortable and safer

The opportunities of digitalisation for the window and façade industry as well as the practical use of intelligent components will be shown at Fensterbau Frontale 2020 as part of the special show "Fenestration digital - digital processes, products, tests and services" in Hall 1.

Picture Gallery



Mechatronic components offer many improvements
Automatic window opening, barrier-free doors and healthy and fresh air through controlled window ventilation

Author



Jürgen Benitz-Wildenburg is head of the PR & Communication department. As a carpenter, timber construction engineer and marketing expert, he has been working in the timber and window industry in various functions for over 30 years. As a lecturer, speaker and author, he passes on his knowledge.

Info about ift Rosenheim (for the technical press)

ift Rosenheim is a notified European testing, surveillance and certification body with international accreditation, according to DIN EN ISO/IEC 17025. The core activities at ift Rosenheim include practical, holistic and fast testing and assessment of all characteristics of windows, facades, doors, gates, glazing and construction materials. Its goals include sustainable improvement of product quality, design, and technology as well as work on standardisation and research. Certification by ift Rosenheim assures you of acceptance all over Europe. At ift, we are committed to providing knowledge and as an unbiased institution, ift Rosenheim enjoys a special status with the media – the publications document the current state-of-the-art technology.

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Info about ift Rosenheim (for the public press)

You need skills, technology and experience for good structures, and this is especially applicable to windows, facades and doors. Since 1996, ift Rosenheim has been supporting the industry as a neutral scientific institute with technical services and more than 200 employees. These include conducting tests and research, certification and quality management as well as standardisation, advanced education and technical information. In this manner, ift Rosenheim is promoting the development of quality products that are suitable for use, environment-friendly and efficient, and which make life more comfortable, more secure and safer, and healthier.

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