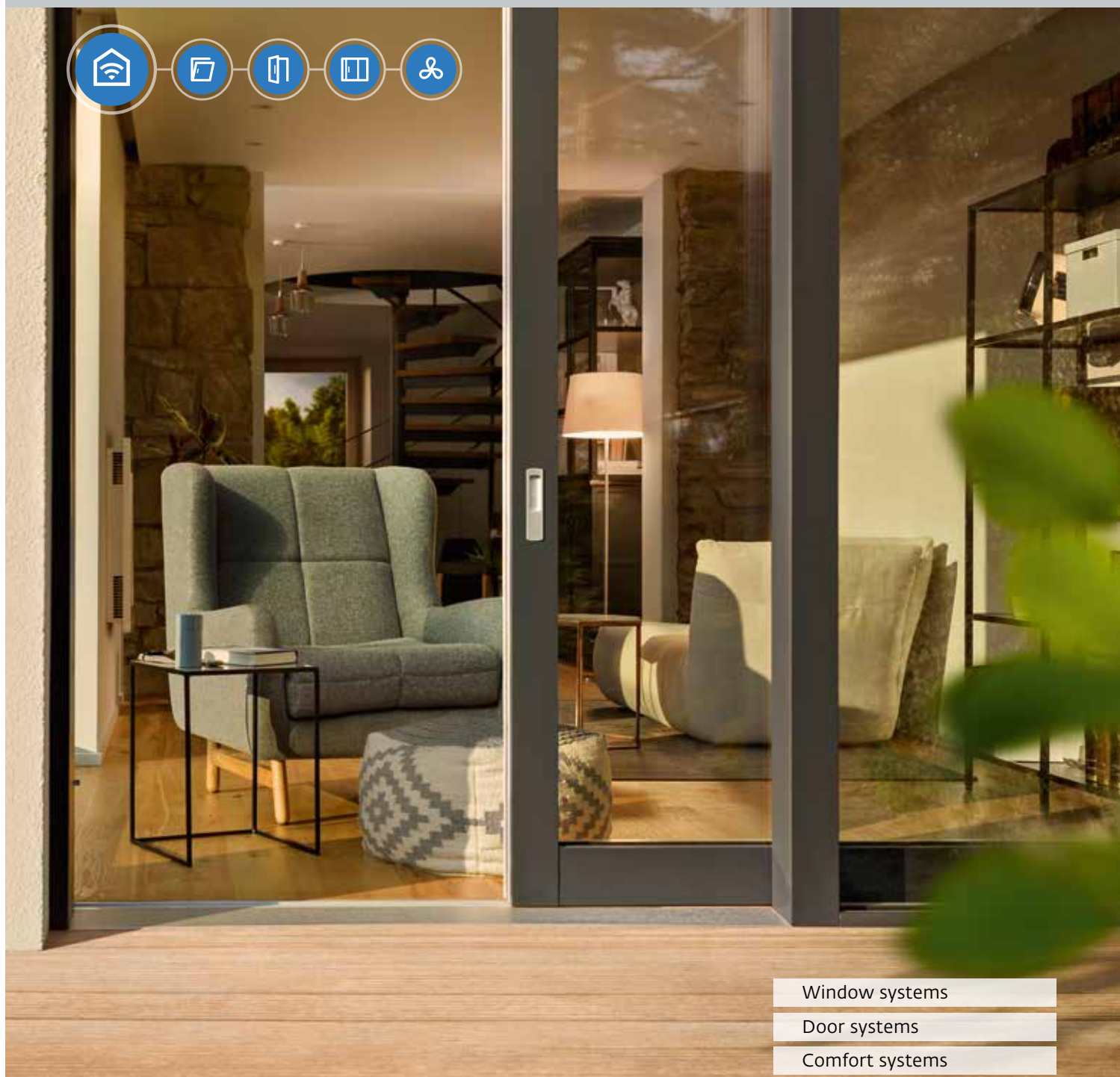


DRIVE sets everything
in motion³

DRIVE building technology:
a smart range of solutions for modern
residential and commercial buildings.



Window systems

Door systems

Comfort systems

Experience
room comfort.
We bring spaces
to life.





For the room comfort of the future.

Our products and solutions bring spaces to life and give people a sense of well-being. This is our drive and inspiration but also the key to permanent success together with our customers.

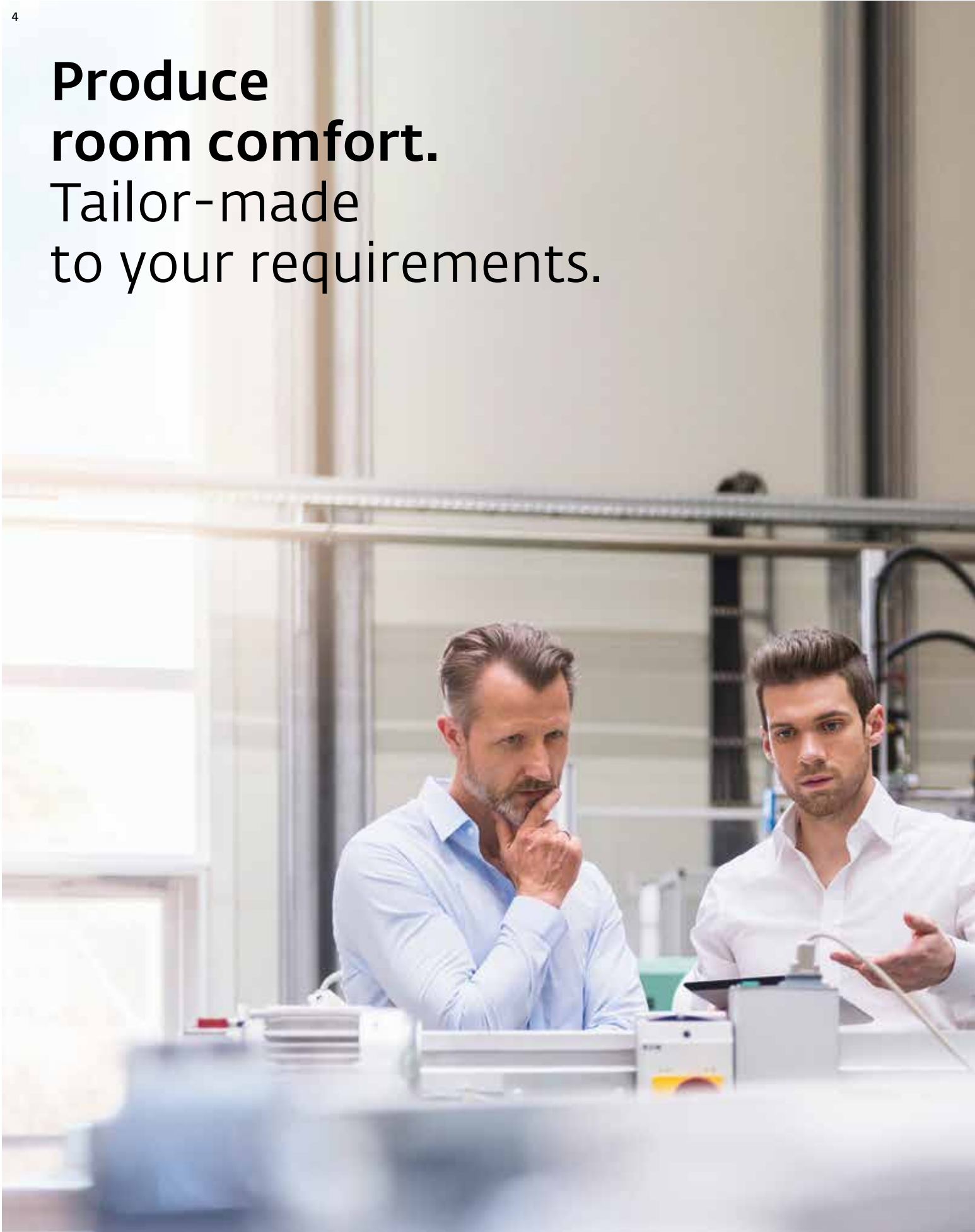
Our instinct for the requirements of the market, the developments of the future and for the demands of our customers has made us one of the leading international innovation providers today. We owe this to a staff of more than 2,800 in around 80 countries and to the intensive exchange of ideas with our partners and customers.

More than 100 years of experience.

As a German family enterprise, for four generations now we have been developing future-oriented systems, which make your life easier in your everyday fabricating processes, and providing your customers with the security that comes with creating a home or a modern working environment out of four walls. You can experience this vision of room comfort for yourself in our showroom. Even if we didn't call it "room comfort" before: we have been working on this for over 100 years.

SIEGENIA®
brings spaces to life

**Produce
room comfort.**
Tailor-made
to your requirements.



More solutions from one single source.

With a very diversified product portfolio for modern window systems, door systems and comfort systems, you can obtain everything from one single source with SIEGENIA, to stringently tested quality and with a wide range of innovations. Our DRIVE building technology offers you smart drives, access control and monitoring systems that can be operated and monitored in the SIEGENIA Comfort app.

More flexibility and cost-effectiveness.

All smart SIEGENIA solutions have a clear demand: more room comfort for your customers and more cost-effectiveness for you. To achieve this, the smart variants of our devices can not only be operated intuitively and via an app: they are also easy to install and set up because the WIFI module is already integrated. Discover the smart SIEGENIA world and approach new target groups together with us.

Customised services.

It is often minor details that make such a decisive difference in practice. With SIEGENIA, you have a partner who pays attention to every detail and who is aware of your everyday requirements better than anyone else. For this reason, we have pooled our product systems together perfectly with our complete know-how for you: in service packages that provide precise advice, information or on-site support. Whether this is for your production, training your staff, your marketing or with professional on-site services for your customers: we are there for you!



The smart world of SIEGENIA.

Those who rely on room comfort are clever. Those who interlink this cleverly are smart. That is no problem with our smart devices and the SIEGENIA Comfort app. The new IO modules also allow connection with third-party systems.

Plan room comfort. You can build on this.



More planning quality with room comfort.

Our high-quality hardware, ventilation and building technology not only provides the building blocks for modern living and room concepts, but also well-coordinated systems. Because only when all room functions work together as one system can a room truly become a living space.

With SIEGENIA you have the freedom to create the comfort that brings spaces to life: room comfort.

Extensive support.

We want to support you with qualified consultation and services. Our team of project consultants and application technicians as well as the corresponding data technology and software are at your disposal for this purpose.



architekten.siegenia.com

DRIVE building technology

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DRIVE sets everything in motion.

A smart variety of solutions for more comfort, security and energy efficiency.

Lift and slide elements open and close or lock and release fully automatically:
DRIVE axxent HSA smart



**Automatically tilt windows for ventilation,
close and lock securely again:**

Fully concealed drive
DRIVE axxent DK

**Monitor windows via app and detect
break-in attempts straight away:**

senso secure wireless window sensor

**Open entrance doors via fingerprint scan
or PIN code and administer the
access rights securely on an app:**

SIEGENIA access control systems

**Lock and release entrance doors
automatically:**

Electromechanical multi-point lock
AS 2600 GENIUS

**Ventilation with high sound absorption,
heat recovery and
all comfort functions:**

Wall-mounted ventilator
AEROVITAL ambience smart

**Operate garage door drive via the
SIEGENIA Comfort app operation:**

IO module





SIEGENIA Comfort app

The smart SIEGENIA world for more intelligent living.



Windows



Sliding doors



Entrance doors



Ventilators

All in one app.

Those who rely on room comfort are clever. Those who interlink this cleverly are smart. Because this is how you can operate our smart drives, access control and ventilation systems as well as connected third-party devices with only one app and consequently approach new target groups. The integrated WIFI module in SIEGENIA smart devices makes setting them up child's play. Exploit your options. Because you have more to offer with SIEGENIA.

Numerous additional functions.

The SIEGENIA Comfort app allows you to operate all SIEGENIA "smart" products remarkably conveniently and intuitively via smartphone or tablet. A wireless or infrared remote control is no longer needed. On the contrary, the app raises the ease of use to a completely new level with a wide range of additional functions. These range from individual comfort and control functions to convenient user administration, secure remote access and automatic push notifications. So you have everything under control at all times.

Extremely easy setup.

The WIFI module is integrated as standard in SIEGENIA smart devices. Only integration in the existing WIFI network is required to enable control via app, for example with a smartphone. If no WIFI network is available, our smart devices can also be directly connected to the smartphone or tablet. In this stand-alone mode the SIEGENIA smart device provides its own WIFI network like a WIFI router. This is a particular advantage when setting the unit up on site.



Smart room comfort.

When solutions for more comfort and security can be combined intelligently, operated via one single app and thus provide clever additional functions: that's smart room comfort.

SIEGENIA Comfort app

All devices and functions in one single app.



Windows

Automatic fresh air and a secure opening and locking monitoring system.

Window ventilation via SIEGENIA drives can also take place in automatic mode independently of the user: through the timer functions on the SIEGENIA Comfort app or by means of integration in third-party systems. The window can be securely locked again after ventilation and this can be monitored with the app.

For windows without a drive, an opening and locking monitoring system can also operate through an app via wireless window sensors, which can be easily retrofitted at any time.

Entrance doors

Convenient operation and secure administration of access rights.

Doors with electromechanical multi-point locks can also be operated via the app.

If an access control system is integrated, administration of individual access rights can also be done conveniently via app. Even the assignment of time-limited access rights is possible without any problems. For example, without having to hand over a key.



Tilt



Lock



Unlock



Ventilation timer



Monitoring



Lock and unlock



Keyless function



Administration of up to 200 users



One-time users, interval users



Timer



Sliding doors

Convenient automation of sliding doors with sash weights of up to 400 kg.

With the right drive and the SIEGENIA Comfort app, heavyweight lift and slide doors can be automatically opened and closed or locked and released as if by magic. For this purpose, the app provides flexible timer functions and, like in all SIEGENIA smart devices, a clever installation assistant.

Ventilators

Intelligent additional functions for the perfect indoor environment.

Smart SIEGENIA wall-mounted and facade ventilation units provide an energy-efficient, calm and healthy indoor environment with ease. The app opens up a wide range of additional functions in order to automatically adapt the ventilation mode to the quality of the room air or to your individual requirements.



↔ Open and close

||< Night vent

↔ Intermediate stop

🕒 Ventilation timer

🔒 Lock and unlock



🌀 Automatic ventilation

⊖ Continuous regulation of the amount of air

🕒 Timer

↔ Freely selectable mode of operation

🔍 Filter replacement indicator

SIEGENIA Comfort app

The benefits are in the palm of your hand.



Automatic ventilation

A healthy indoor environment at all times due to motorised windows and sliding doors.

Ventilation is easier than ever with the SIEGENIA Comfort app. As well as the opening and closing of windows or lift and slide elements, SIEGENIA smart drives offer a timer function to precisely define the duration of ventilation and to automatically lock the element afterwards.

Moreover, with the SIEGENIA drives for lift and slide elements, a secured night vent is possible in which the sliding door is locked even in the ventilation position.





Motors

Powerful drive systems that bring movement into living and design concepts.

Motors for windows.

If you select the right technology, you don't have to choose between optimum comfort and convenience, simple fabrication and stylish design. The concealed drives that can be integrated in the window profile not only let you easily open and close windows and skylights, but also fit easily into any production process. While the fully automated ventilation can be operated and controlled effortlessly via an app, installation and programming are also extremely simple, fast and efficient.

Motors for sliding doors.

Our powerful drive systems for lift-slide or sliding elements are not only clever building blocks for barrier-free living, they also provide every home with a major plus in terms of ease for sash weights of up to 400 kg. Whether we are talking about pressing a button, using timers or an app: with DRIVE you will be setting out a clear statement for the new ease of living, for life-long room comfort and for an elegant design. Because our drives adapt harmoniously to every type of architecture and facade.

Motors for entrance doors.

Smart room comfort has many faces and begins at the door. Whether we are talking about private homes, apartment buildings, hotels or holiday apartments. Whether we are talking about schools, care homes, hospitals or office buildings: with SIEGENIA you automatically have more options at your door. Modern entrance doors fitted with the GENIUS multi-point lock can be opened especially conveniently via app or access control system and can be locked at multiple points automatically just by closing the door.



The key to more comfort and security.

Motors open up new options – especially in conjunction with a smart access control system. As this allows the door not only to be locked automatically but also, with the appropriate access authorisation, even keyless unlocking is possible.

DRIVE axxent DK

Fully concealed tilt sash locking drive for tilt-only and turn-and-tilt windows.

Whether we are talking about hard-to-reach windows or simply greater room comfort: with the option of fully automatic window ventilation, the value of the property rises together with the quality of life provided by this drive. For a moving design the DRIVE axxent DK is fully integrated into the frame profile and combines the "tilting", "locking" and "unlocking" functions in one single system. Even turn-only opening continues to be possible on turn and tilt elements, for when you want to clean the window for example. Control is via push button, remote control or via the building control system. Operation via the SIEGENIA Comfort app is possible due to the optional WIFI module.





Planning and production

Operating current (max.)	0.6 A
Operating voltage	24 V DC
Operating temperature range	-20 °C to +40 °C
Protection type	IP20
Jam protection (current limiter in accordance with standard)	Electronic safety cut-off
Tested functional safety	30 000 operating cycles (double stroke including locking part)
Assembly type	Concealed profile assembly: frame
Installation position	Top
Mounting orientation (installation orientation)	Horizontal
Locking force (max.)	700 N
Closing force (tilt)	150 N
Running speed, opening process	10 mm/s
Running speed, closing process	5 mm/s
Sash weight (max.)	130 kg
Window material	Timber, PVC, aluminium
Dimensions (W x H x D)	387 x 42.5 x 24 mm

Installation

- Easy to install; can be adjusted even after installation
- No installation costs for a cable transfer or an additional locking drive
- Optional test unit is available for simple setup

Functions

-  Tilt
-  Lock
-  Unlock
-  Ventilation timer

- Motorised locking, unlocking and tilting via push button or wirelessly
- Auto-Lock function: if the window is pushed closed it locks automatically, meaning the handle can be dispensed with completely
- 10-minute automatic ventilation and whisper mode
- Optional WIFI module for operation via the SIEGENIA Comfort app
- Suitable for integration into the building control technology



Visually fully concealed technology for a perfect window design



DRIVE CL

Fully concealed tilt-locking drive for more cost-effectiveness.

The DRIVE CL offers an assembly-friendly as well as an economical solution, which still meets the highest comfort and design requirements. To this end, the chain-locking drive is fully integrated in the frame profile and enables setting at a freely selectable opening width together with the automatic "tilting", "locking" and "unlocking". Even turn-only opening continues to be possible with turn and tilt elements, for when you want to clean the window for example. Control is via push button, remote control or via the building control system.

Operation via the SIEGENIA Comfort app is possible due to the optional WIFI module.





Planning and production

Operating current (max.)	1 A
Operating voltage	24 V DC
Operating temperature range	0 °C to 40 °C
Protection class (when installed in the profile)	IP40
Protection class (in dismantled condition with connected plug)	IP20
Jam protection (current limiter in accordance with standard)	Electronic safety cut-off
Tested functional safety	22 000 operating cycles (double stroke including locking part)
Assembly type	Concealed profile assembly: frame
Installation position	Top
Mounting orientation (installation orientation)	Horizontal
Locking force (max.)	500 N
Closing force (tilt)	200 N
Running speed, opening process	4.2 mm/s
Running speed, closing process	4.2 mm/s
Sash weight (max.)	80 kg
Window material	Timber, PVC, aluminium with 16 mm fittings groove, aluminium Euro groove on request
Dimensions (W x H x D)	364 x 46 x 27.5 mm

Installation

- Easy to install; can be adjusted even after installation
- No installation costs for a cable transfer or an additional locking drive
- Optional test unit is available for simple setup

Functions

-  Tilt
-  Lock
-  Unlock
-  Flexible opening width

- Motorised locking, unlocking and tilting via push button or wirelessly
- Stop function for a freely definable opening width
- Auto-Lock function: if the window is pushed closed it locks automatically, meaning the handle can be dispensed with completely
- Optional WIFI module for operation via the SIEGENIA Comfort app
- Suitable for integration into the building control technology



DRIVE axxent

Concealed tilt drive for modern skylights.

With its large opening width of up to 350 mm and flexible control options, DRIVE axxent is the ideal solution for effective and convenient ventilation by tilting hard-to-reach skylights. Control is possible via push button, remote control, via the building control system, via an optional WIFI module or simply through the SIEGENIA Control app. Except for a discreet cover panel, the powerful drive is fully concealed and therefore offers an all-round visually effective solution, which is tailored to different window systems and profiles in a targeted way. This increases the freedom of design and simplifies the installation.

Planning and production

Operating current (max.)	0.6 A
Operating voltage	24 V DC
Operating temperature range	-5 °C to +75 °C
Protection type	IP50
Jam protection (current limiter in accordance with standard)	Electronic safety cut-off
Tested functional safety	> 10 000 (double stroke)
Assembly type	Concealed profile assembly: frame
Installation position	Top
Mounting orientation (installation orientation)	Horizontal
Locking force (max.)	1500 N
Closing force (tilt)	250 N
Running speed, opening process	6.7 mm/s
Running speed, closing process	5 mm/s
Sash weight (max.)	Dependent on hardware
Window material	Timber, PVC, aluminium
Dimensions (W x H x D)	405 x 30 x 35 mm

Installation

- Simple, flexible assembly with system-specific mounting brackets
- Installation is possible in standard profiles: casing depth of only 34 mm

Functions



Tilt

- Motorised tilting and closing via push button or wirelessly
- Tandem function for up to two drives on one window
- Can be combined with locking drives
- Optional WIFI module for operation via the SIEGENIA Comfort app
- Suitable for integration into the building control technology



Large opening width of 350 mm



Virtually unaltered window design: fully concealed technology, except for the discreet cover panel



DRIVE axxent HSA smart

Partially concealed drive system for lift & slide elements.

The fully automatic DRIVE axxent HSA smart lift-slide drive combines high ease of use with clear design advantages and brings movement into modern living and design concepts. Sash weights up to 400 kg cannot only be opened and closed at the press of a button, but can also be securely locked and released by the fully concealed lift drive. Operation is convenient via button, or really simple via the clever additional functions of the SIEGENIA Comfort app. For this purpose, a WIFI module that can be easily connected to the home network is integrated as standard.

Planning and production

Operating current (max.) scheme A / C	1 A / 2 A
Operating voltage	24 V DC
Operating temperature range	-5 °C to + 50 °C
Protection type	IP20
Jam protection (current limiter in accordance with standard)	Electronic safety cut-off
Tested functional safety	> 25 000 switching cycles at 400 kg
Assembly type	Surface-mounted profile assembly: frame Concealed profile assembly: sash
Installation position	Top
Mounting orientation (installation orientation)	Horizontal
Displacement force of the sash (max.)	50 N
Sliding speed	150 mm/s
Operating time of lift drive	7 s
Sliding door material	Timber, PVC, aluminium
Sash weight (max.)	200 / 400 kg

Installation

- Quick installation and setup: preassembled drive, plug-in plug & play system and automatic programming
- For locking bolt or hook bolt gear
- Scalable for lighter HS sashes: additional product variants up to 200 kg sash weight available

Functions

- ↔ Open and close
- ||< Night vent
- <|> Intermediate stop
- 🕒 Ventilation timer
- 🔒 Lock and unlock

- Motorised opening, closing and locking
- Operation via push button or the SIEGENIA Comfort app
- Night vent, intermediate stop, ventilation timer
- Smooth start and stop motion
- Simple, manual emergency operation in the event of a power failure
- Wheelchair-compatible version in accordance with DIN 18040 is possible if used in conjunction with the ECO PASS threshold
- Suitable for integration into the building control technology



MHS400 smart, MSA400 smart

Fully automatic drive systems for lift-slide or sliding elements.

Modern window fronts of up to 13 m width and up to 400 kg sash weight can also be automatically opened and closed with the MHS400 smart lift-slide drive and the MSA400 smart slide drive. Motorised locking and unlocking is also possible with the MHS400 smart.

With two drives, operation is not only possible via button, it is also effortlessly possible via the SIEGENIA Comfort app, and with additional functions. The WIFI module is integrated as standard for this purpose.

Planning and production

Operating current (max.) scheme A / C	1 A / 2 A
Operating voltage	24 V DC
Operating temperature range	-5 °C to +50 °C
Protection type	IP20
Jam protection (current limiter in accordance with standard)	Electronic safety cut-off
Tested functional safety	> 25 000 switching cycles at 400 kg
Assembly type	Surface-mounted profile assembly: frame/sash
Installation position	Top
Mounting orientation (installation orientation)	Horizontal
Displacement force of the sash (max.)	50 N
Sliding speed	150 mm/s
Operating time of lift drive	7 s (MHS 400)
Sliding door material	Timber, PVC, aluminium
Sash weight (max.)	400 kg

Installation

- Quick installation and setup: preassembled drive, plug-in plug & play system and automatic programming
- For universal use, regardless of hardware manufacturer
- No complicated profile milling required
- Can be easily retrofitted to almost any profile type or system

Functions

↔ Open and close

||< Night vent

<|> Intermediate stop

🕒 Ventilation timer

🔒 Lock and unlock

- MHS400 smart lift-slide drive: motorised opening, closing and locking with night vent function
- MSA400 smart slide drive: motorised opening and closing
- Operation via push button or the SIEGENIA Comfort app
- Smooth start and stop motion
- Intermediate stop, ventilation timer
- Simple, manual emergency operation in the event of a power failure
- Wheelchair-compatible version in accordance with DIN 18040 is possible if used in conjunction with the ECO PASS threshold
- Suitable for integration into the building control technology



AS 2600 GENIUS

Multi-point lock for electromechanical locking and unlocking.




GENIUS combines the security of a mechanical multi-point lock with the convenience of modern electronics. The 2.2 version is equipped with integrated control electronics and a powerful gear motor. This quickly and quietly locks and unlocks both the round-bolt/hook-bolt combination in the auxiliary lock cases as well as the main lock bolt and also provides maximum sealing. Depending on the version, the GENIUS can be combined optimally with access control systems and many other applications. Even connection to existing third-party systems is possible thanks to the innovative IO modules. This opens up a wide range of possibilities in private and commercial construction which, with the GENIUS 2.2 PANIC, range from the electromechanical solution to emergency exits and panic doors that comply with EN 179 and EN 1125.

Planning and production

Operating current (max.)	1 A
Operating voltage	24 V DC
Operating temperature range	-25 °C to +70 °C
Protection type	IP40
Jam protection (current limiter in accordance with standard)	Not necessary
Tested functional safety	100 000 motorised cycles / 200 000 mechanical cycles
Assembly type	Sash assembly
Installation position	Concealed
Mounting orientation (installation orientation)	Vertical
Door material	Timber, PVC, aluminium
Dimensions (W x H x D)	16 x 252 x 49 mm

Installation

- Ultra-easy ordering, installation and setup due to optional plug & play solutions
- With SI-BUS interface for simple, space-saving direct installation

-  Lock and unlock
-  Locking monitoring system
-  Can be combined with access control systems

Functions

- Fully motorised locking and unlocking, quick and powerful
- Permanent lock monitoring
- Operation via access control systems with potential-free switching contact or via SIEGENIA access control systems
- Operation with the SIEGENIA Comfort app is possible: via the IO module or via a connected SIEGENIA access control system
- Permanently open function
- Menu navigation and status messaging in installed state by colour LEDs and/or SIEGENIA Comfort app
- Easy, manual operation in the event of a power failure
- Connection to existing third-party systems is possible

Additional functions - GENIUS 2.2 PANIC

- Installed feedback
- Escape and panic function even in case of power failure
- Approved according to EN 179 and EN 1125
- Panic cylinder operated lock E
- Panic switching function B



More intelligent entrance doors.

GENIUS uses electromechanical functions to lock and unlock the door. Control is also possible via the digital SIEGENIA access control systems.

Doors with GENIUS and a motorised door drive can also be opened and closed completely for barrier-free living – for example, with the optional keyless function.

A-opener 2.2 motor

The flexible retrofit solution for the motorised unlocking of automatic KfV multi-point locks.




With the A-opener, the automatic multi-point locks AS 3500, AS 3600 and AS 3600C can be upgraded to an electromechanical solution, in order to be able to unlock the door by electromechanical means. In the 2.2 version, the combination with separable power supplies such as tappet contacts is also possible. This gives the door a discreet, appealing appearance and makes connection and installation extremely easy. Moreover, the A-opener can be optimally combined with the digital SIEGENIA access control systems or with access control systems from other manufacturers. Even connection to third-party systems is possible thanks to the innovative IO modules.

Planning and production

Operating current (max.)	1 A
Operating voltage	24 V DC
Operating temperature range	-25 °C to +70 °C
Protection type	IP40
Jam protection (current limiter in accordance with standard)	Not necessary
Tested functional safety	100 000 motorised cycles / 200 000 mechanical cycles
Assembly type	Sash assembly
Installation position	Concealed
Mounting orientation (installation orientation)	Vertical
Door material	Timber, PVC, aluminium
Dimensions (W x H x D)	16 x 252 x 49 mm

Installation

- Ultra-easy ordering, installation and commissioning due to optional plug & play solutions
- With SI-BUS interface for simple, space-saving direct installation without separate control unit and power supply

-  Unlock
-  Locking monitoring system
-  Can be combined with access control systems

Functions

- Motorised release
- Operation with the SIEGENIA Comfort app is possible: via the IO module or via a connected SIEGENIA access control system
- Operation via access control systems with potential-free switching contact or via SIEGENIA access control systems
- Permanently open function
- Easy, manual operation in the event of a power failure
- Connection to existing third-party systems is possible



Innovative ease of use.

Unlocking is also possible via the digital SIEGENIA access control systems. The automatic locking is triggered magnetically for the AS 3500 and mechanically for the AS 3600.



Access control systems

More control and comfort due to intelligent doors.

Digital and future-oriented.

The door to the smart SIEGENIA world opens even more easily: with our future-proof digital access control systems, which communicate directly with the drive through the SI-BUS interface. This enables simple plug & play installation. Operation can be accomplished via WIFI or with the SIEGENIA Comfort app. Moreover, our IO modules offer completely new options for connection with third-party systems.

Simply more efficient.

Due to our predefined and preassembled plug & play sets, you can order all required components from the motor to the cable transfer in one carefree package and you will no longer need an electrician for the installation. The snap-in plug connections are protected against polarity reversal and are easily upgradeable by means of modular extension kits.



The right solution for every need.

Like all SIEGENIA smart solutions, our access control systems have a clear aim: more room comfort for your customers and more cost-effectiveness for you.

Access control systems

High-performance access administration with innovative ease of use.

Our digital access control systems combine clever comfort functions with an elegant appearance and the easiest operation. Due to the SI-BUS interface, all three systems can communicate directly with the drive without an additional control unit. This digitalisation facilitates the integration in smart living concepts and allows for future system extensions.

This leaves all options open. Further networking can either be corded via the SI BUS or cordless via WIFI. The complete SI-BUS is secured with a 128 Bit AES encryption.

Fingerprint scanner

Sensor with touch ID: simply place your finger on the surface.



Keypad

Equipped with a single-use and holiday PIN function.



Transponder

Supports RFID cards.




Planning and production

Sensor type	Surface sensor	Touch sensor	Mifare Desfire EV1 / EV2
Door material	Timber, PVC or aluminium	Timber, PVC or aluminium	Timber, PVC or aluminium
Operating voltage	9 V DC to 30 V DC	9 V DC to 30 V DC	9 V DC to 30 V DC
Power consumption	<3 W	<4 W	<6 W
Communication via app (WIFI)	2.4 GHz / 802.11b/g/n/e/i	2.4 GHz / 802.11b/g/n/e/i	2.4 GHz / 802.11b/g/n/e/i
Keyless communication (Bluetooth)	V4.2 BR/EDR and BLE	V4.2 BR/EDR and BLE	V4.2 BR/EDR and BLE
Transponder communication			Supports the following RFID tags: – Mifare Desfire EV1 – Mifare Desfire EV2
Encryption	AES 128 Bit	AES 128 Bit	AES 128 Bit
Lighting	6 x RGB LED (multi-coloured)	6 x RGB LED (multi-coloured)	6 x RGB LED (multi-coloured)
Brightness	Controllable: automatically via light sensor or manually	Controllable: automatically via light sensor or manually	Controllable: automatically via light sensor or manually
SI-BUS interface	⊙	⊙	⊙
Operating temperature range	-25 °C to +70 °C	-25 °C to +70 °C	-25 °C to +70 °C
Protection type	IP54 front side	IP54 front side	IP54 front side
Protection class	III	III	III

Functions

 Administration of up to 200 users

 One-time users, interval users

 Keyless function

 Timer

- With WIFI and Bluetooth chip as standard
- Control via the SIEGENIA Comfort app
- Online remote access, timer and user administration
- 128 Bit AES encryption and access log
- Administration of up to 200 users or 800 features
- One-time users and interval users
- Optionally usable keyless function
- Connection to existing third-party systems is possible



The colour-adjustable LED lighting enables individual tone-to-tone adaptation to the entrance door. The brightness can be controlled manually or automatically.





Monitoring systems

Intelligent sensor security solutions.

Window control via app.

We have never taken any chances with security. This applies to mechanical burglar resistance as well as to electronic status monitoring. Because what is the point of reporting that a window is locked if it has only been left ajar? This is why our senso secure wireless window sensor can make a clear distinction between all opening and locking statuses, make them visible in the SIEGENIA Comfort app at a glance and trigger an alarm tone in case of vibration as well as sending an automatic push notification.

Connect windows and sliding doors to monitoring systems or to the heating control.

Both windows and lift-slide doors can be perfectly integrated in a central monitoring system or alarm system with our modern AEROCONTROL magnetic switches. This enables VdS-certified electronic burglar resistance as well as allowing the connection of windows and sliding doors to the automatic climate and heating control via the building control technology.



Technology that can't be fooled.

When you can keep an eye on everything at all times thanks to remote access via app and the security technology detects the slightest hint of a break-in attempt: that's smart room comfort.

senso secure wireless window sensor

Opening and locking monitoring system via app.

In contrast to all conventional sensors, the concealed senso secure, integrated in the profile, can distinguish between all opening and locking statuses without doubt and make these visible at a glance via an app. This means you can calmly leave your home and still have a close eye on everything.

The vibration sensor even picks up vibration on the window as a burglary attempt. The window sensor triggers an alarm tone as well as a loud and intimidating alarm signal on the SIEGENIA Connect Box. Moreover, there is an option to have an alarm signal sent to a smartphone via a push notification.

Planning and production

senso secure wireless window sensor

Distinguishes between all opening and locking statuses and reacts to vibrations.



Window material	Timber, PVC, aluminium
Installation position	In the window, horizontal / vertical
Radio standard	EnOcean
Radio frequency	868.3 MHz
Wireless log	eep D2-06-50
Protection type	IP40
Batteries	2 x AAAA
Battery service life	Approx. 3 years, Status display via app

Installation

- Can be simply and quickly integrated, concealed in the window profile: no tools are required
- Can be combined with conventional fittings regardless of the manufacturer and also upgraded at any time
- Simple setup via the SIEGENIA Comfort app





SIEGENIA Connect Box

Connects up to 20 radio window sensors via the WIFI router with the SIEGENIA Comfort app.



Radio standard	WIFI
Radio frequency	2.4 GHz
Wireless log	802.11 b/g/n/e/i
Radio standard	EnOcean
Radio frequency	868.3 MHz
Wireless log	eep D2-06-50
Operating voltage	5 V
Operating current	2.1 A
Protection type	IP20
Protection class	III
Operating temperature range	0 °C to 45 °C
Signal tone (acoustic signal)	100 dB (optional)
Scope of delivery	SIEGENIA Connect Box, power supply, charging cable

Functions

-  Distinguishes between all sash statuses
-  Detects potential mishandling
-  Vibration sensor
-  Alarms via push notification

- Determines all possible opening and locking statuses
- Detection of potential mishandling
- Integrated vibration sensor triggers in the case of a break-in attempt
- With the SIEGENIA Connect Box: monitoring while you are out and about via the SIEGENIA Comfort app is possible
- Battery status indication via app
- Status change counter enables improved services
- Compatibility: operation with the SIEGENIA Connect Box or with other En-Ocean-based systems if the eep-log is implemented



The senso secure wireless window sensor can also be vertically installed on the sash. Due to its easy and wireless installation, the senso secure is suitable as both an original fitting on newly acquired windows or for retrofit.

senso secure wireless window sensor

The invisible security solution that cannot be fooled.

Opening and locking monitoring system

Precise distinction of all window statuses.

The senso secure wireless window sensor can make a precise distinction between any possible opening or locking status, resulting from the position of the window sash and from the position of the handle and the locking cam. Hence, the precise locking position is visible in the SIEGENIA app. Because what is the point of reporting that a window is locked if it has only been left ajar?



Window securely locked



Handle in turn position,
sash ajar



Handle in tilt position,
sash ajar



Handle in locking position,
sash open: mishandling



Handle in turn position,
sash open

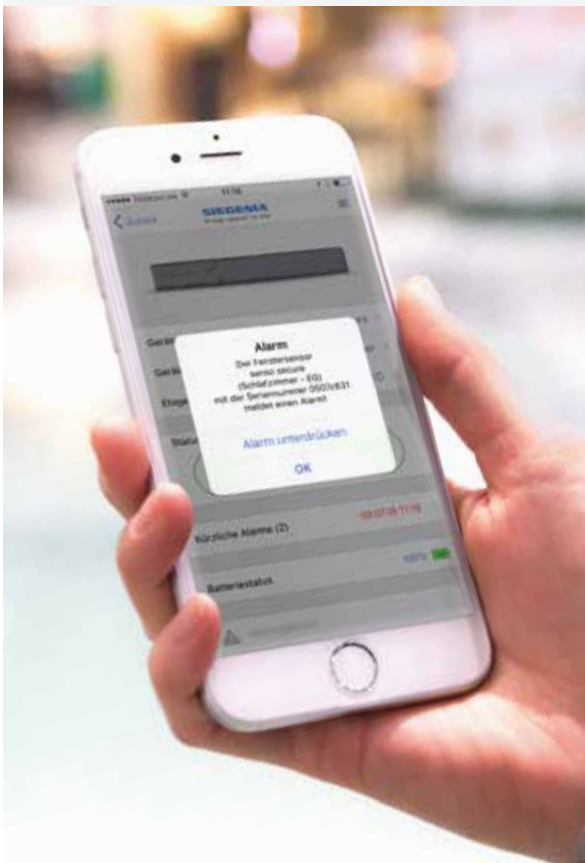


Handle and sash
in tilt position

Integrated vibration sensor

Detects even the quietest burglary attempts.

Thanks to the integrated vibration sensor even a vibration on the window element is picked up by the senso secure wireless window sensor as a burglary attempt. The window sensor reacts immediately. If it detects a manipulation attempt, it reacts with an alarm tone directly on the window, which is audible for the burglar and additionally triggers a loud and intimidating alarm signal on the SIEGENIA Connect Box. Moreover, there is an option to have an alarm signal sent to a smartphone via a push notification.



AEROCONTROL magnetic switch

Opening and locking monitoring system for windows and lift-slide doors up to VdS class C.

Both windows and lift-slide doors can be flexibly and reliably integrated in a central monitoring system or alarm system with our modern AEROCONTROL magnetic switches, concealed and integrated in the profile. They function as signal-transmitting components and, depending on the switch, not only control the opening status, but also ensure proper locking: for modern security solutions up to VdS class C. Specific magnetic switches can also be connected to the heating and climate control via the building control technology to save energy during ventilation.

Windows and patio doors

Monitoring via a magnetic switch integrated in the frame rebate and a hardware component with a moving magnetic cam.

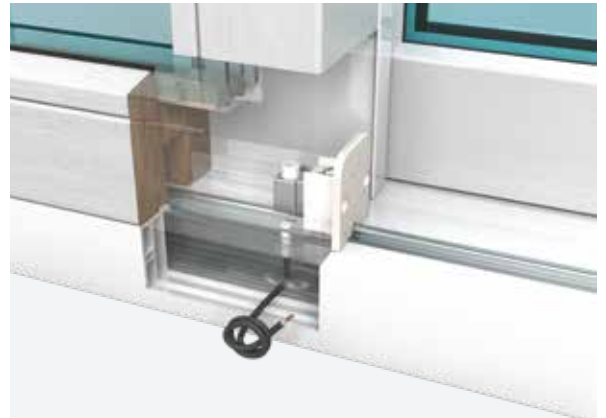


Installation

- Suitable for all profile materials
- Can be easily used in the frame rebates of many window types and patio doors, regardless of profile

Lift-slide elements

The magnetic switch is seated under the running rail and the magnetic cam in the cover plate of the bogie wheels.



Installation

- Suitable for all profile materials
- For lift-slide doors with schemes A and C
- No cable transfers from sash to frame

Functions



Distinguishes between all sash statuses



Up to VdS class C



Can be integrated into BUS systems

- Integrated opening and locking monitoring system: depending on the switch type, approved up to the highest VdS class C
- Effortless integration in existing alarm and monitoring systems
- Can be connected to the heating control
- Can be networked with all conventional BUS systems
- Variants with EN approval
- With sabotage monitoring and external magnetic field control according to switch type
- Extensive accessories for alarm glazing and control of fume extraction hoods
- Recognised system recommended by the police



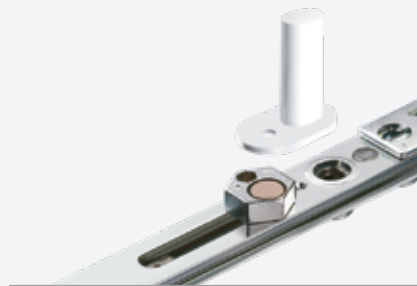
AEROCONTROL magnetic switch

For the highest security demands.

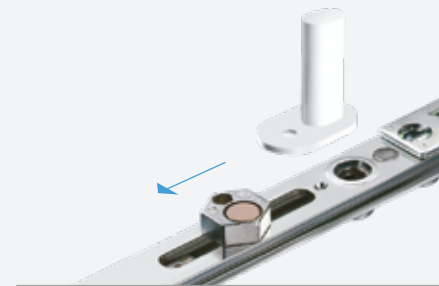
Combined opening and locking monitoring system

Detects and reports every security risk.

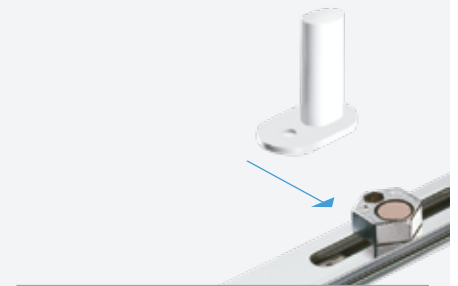
AEROCONTROL magnetic switches, depending on the version, can not only check whether the sash is fitted into the frame and whether it is properly locked, it can do both simultaneously. With this combined opening and locking monitoring system, not only is the opening of the sash detected, but also the activation of the handle as well as any attempt to shift the locking cam of the hardware by force. To do this, a hardware component with a magnetic cam is used, which will only close a contact in the magnetic switch that in turn is connected to the burglar-resistance system, when the fitting is in the correct closing and locking position. If the contact is interrupted, the magnetic switch notifies the central monitoring unit of this without delay, which can trigger an alarm or notify a security company for example.



Window securely locked:
contact between magnetic switch and
mobile cam



Locking monitoring system:
hardware is not properly locked
or shifted using force



Opening monitoring system:
sash not fitted in frame,
contact interrupted



Protection against manipulation

Anti-tamper line and external magnetic field control.

To protect the system against targeted manipulation, AEROCONTROL is equipped with an anti-tamper line and external magnetic field control according to the switch type.

An anti-tamper line is an electrical circuit to which a voltage is applied. If this is interrupted, e.g. by the cable connection being broken, the burglar alarm system triggers an alarm automatically.

By contrast, an external magnetic field control registers if the magnetic switch is manipulated by an external magnetic field with the intention to fool the burglar alarm system. The burglar alarm system is also triggered in this case.

Security solutions for every VdS class

Keep an eye on everything and have it all within reach.

Class A: simple protection against armed and unarmed manipulation attempts, the detectors are equipped with medium triggering sensitivity.

Class B: medium protection against armed and unarmed manipulation attempts, the detectors are equipped with medium triggering sensitivity. Manipulation attempts are monitored by an anti-tamper line.

Class C: enhanced protection against armed and unarmed manipulation attempts, the detectors are equipped with enhanced triggering sensitivity. Far-reaching monitoring of the security functions is present.

VdS





Smart Home networking

Open to more possibilities.

Integrate other manufacturers with IO modules.

In the smart SIEGENIA world, all smart devices can communicate over WIFI via the SIEGENIA Comfort app. Thanks to control and monitoring via the app, many additional comfort and control functions are opened up for windows, doors and sliding doors.

Our new IO modules provide you with the optimal building blocks for cross-manufacturer integration of external devices into the smart SIEGENIA world. This also includes a solution with integrated WIFI chip in order to integrate even devices without their own WIFI in the SIEGENIA Comfort app.

Integrate SIEGENIA smart devices into third-party systems.

The growing demand for holistic building solutions means that there is an increasing demand for smart home systems, which are open for cross-manufacturer networking. This is why we are constantly working on new collaborations. This includes, for example, with the millionfold tried and tested systems from mediola and from Somfy. Smart SIEGENIA drives, access control systems and ventilation units also perform optimally in other Smart Home environments.

Smart Home becomes Sweet Home.

Many solutions are created that provide more comfort and security, thus contributing to the feeling of well-being of people at home.

The more simply and intelligently these interconnect, and can be controlled and monitored, the better.



IO module, IO module smart

Connecting external products and applications with SIEGENIA devices and the SIEGENIA Comfort app.

The external devices and applications from a wide range of manufacturers can be flexibly connected to SIEGENIA with the IO modules – to integrate SIEGENIA solutions into third-party systems or to integrate third-party drives into the SIEGENIA world. With a SIEGENIA access control system, you can operate not only a multi-point lock, but also a garage door drive. Or close the roller shutters immediately after the locking of a window drive via the SIEGENIA Comfort app. For devices without their own WIFI function, the IO module smart also delivers a solution with integrated WIFI chip.

IO module smart

With integrated WIFI chip



IO module



Planning and production

WIFI radio frequency	802.11 b/g/n, 2.4 GHz, 150 MBps	–
Operating voltage	19 V DC to 32 V DC	19 V DC to 32 V DC
Power consumption	1.2 W	1.2 W
Switching capacity of outputs	< 1000 mA	< 1000 mA
Switching voltage of outputs	24 V C	24 V C
SI-BUS interface	⊙	⊙
Encryption	AES 128 Bit	AES 128 Bit
Number of inputs	2	2
Number of outputs	3	3
Operating temperature range	0° C to 45° C	0° C to 45° C
Protection type	IP20	IP20
Protection class	III	III

Installation

- Compact design for on-wall or in-wall mounting
- Installation in standard cavity wall boxes and flush-mounted boxes

Functions

- Two SI BUS interfaces for digital, encrypted communication
- Two potential-free inputs
- Three potential-free outputs
- Operation and administration with the SIEGENIA Comfort app is possible: via the WIFI chip in the IO module or via a connected SIEGENIA access control system

Two SI-BUS interfaces

Enable feedback of the device and command status as well as the execution of system updates for complete digital communication in the smart SIEGENIA world.



Two potential-free inputs

Control by third-party signal transmitters, for example, intercom systems, clock timers or smart home switch actuators

Three potential-free outputs

Control of third-party multi-point locks, revolving door/garage door drives or feedback to the burglar alarm system etc.

Freely selectable and configurable feedback to overriding systems



IO module smart with WIFI chip

Enables the integration of third-party devices or SIEGENIA devices without their own WIFI function in the SIEGENIA Comfort app.



Connecting external applications with SIEGENIA

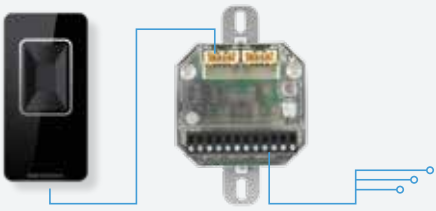
Control of third-party manufacturer devices via SIEGENIA devices or the SIEGENIA Comfort app.

IO module and IO module smart

For universal control and system extension.

IO modules function as interfaces to flexibly connect the devices and applications from other producers with the room comfort solutions from SIEGENIA. Via the integrated WIFI chip, the IO module smart also opens up the option for control via the SIEGENIA Comfort app.

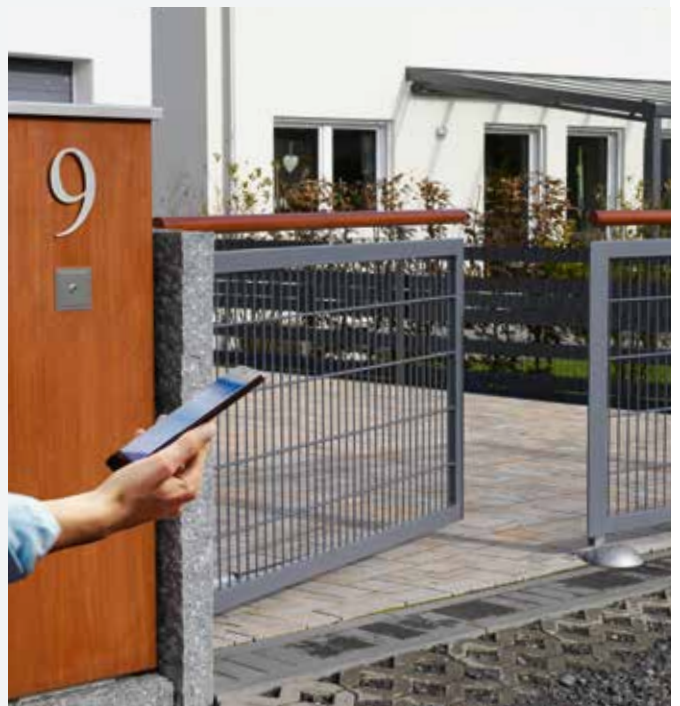
In this way you can extend the smart SIEGENIA world as you wish and integrate existing systems.



Control of external solutions via SIEGENIA devices: for example, revolving doors and gate drives, E-openers, multi-point locks or lighting



IO module smart with integrated WIFI chip: operate external devices via the SIEGENIA Comfort app



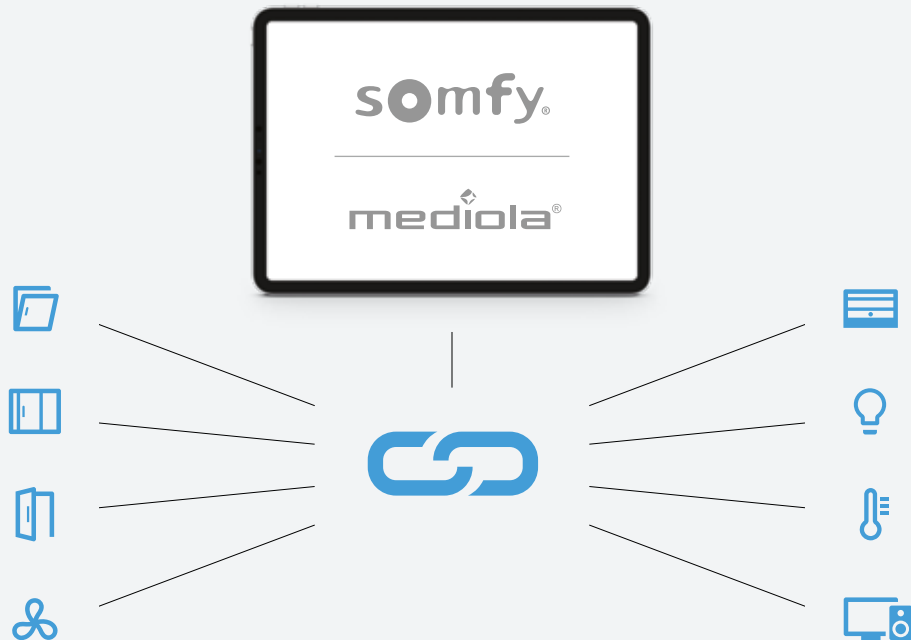
Integrate SIEGENIA into third-party systems

Connect smart windows, doors and ventilation units with over 1000 other Smart Home applications.

Cross-application Smart Home systems

Easy integration of room comfort solutions.

Smart SIEGENIA drives, access control systems and ventilation units also perform optimally in overarching Smart Home environments to connect all the important things and functions in the home to form a whole that's greater than the sum of its parts. Many new options for intelligent control and automation are thus created due to solutions covering a range of functions and thanks to individual living scenarios.



Smart SIEGENIA products interconnect cross-manufacturer and cross-application to create a comprehensive Smart Home system. For example, by integration in the millionfold tried and tested systems from mediola and from Somfy.



Ventilation technology

High-performance facade and wall-mounted ventilators for the perfect indoor environment.

Ventilation technology, which adapts perfectly.

The home and working environments of tomorrow will not be created behind modern facades but rather, notably, through them. Because even the building shell can create the space for a healthy indoor environment and a high level of room comfort.

SIEGENIA ventilation units can be integrated discreetly and almost invisibly into any facade and room, thereby providing significantly more freedom of planning even for demanding projects. Because high air throughput and sound absorption are not a question of size, but of interior structure.

Intelligent additional and comfort functions.

SIEGENIA facade and wall-mounted ventilators provide an energy-efficient, calm and healthy indoor environment with ease. The smart variants are equipped with WIFI control. Thus the ventilation units can be easily and conveniently operated by smartphone or tablet via the SIEGENIA Comfort app.

This opens up a wide range of additional functions in order to automatically adapt the ventilation mode to the quality of the room air or to your individual requirements.

Systems for more freedom in planning.

AEROTUBE WRG smart ventilation units can communicate with the SIEGENIA Comfort app as well as mutually to achieve cross-room ventilation concepts freely and flexibly. To automatically coordinate their operation, they can easily be connected via WIFI to operate in pairs.



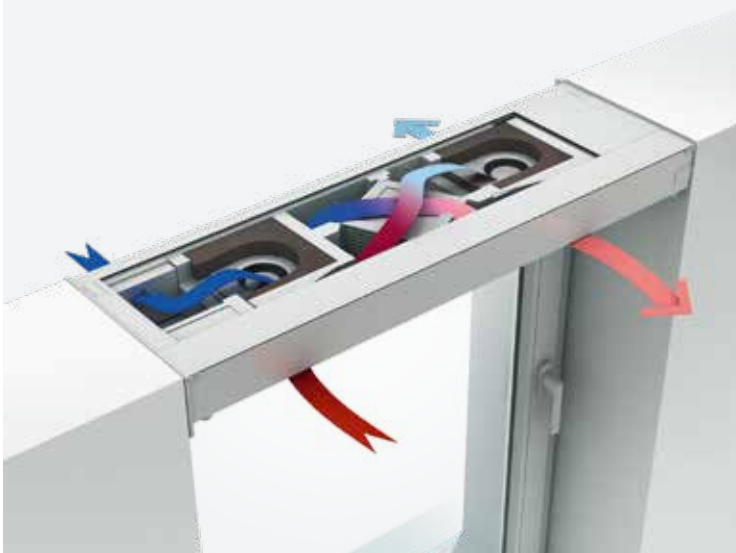
Facade ventilation units

More options for modern facades and customised ventilation concepts.

AEROMAT VT with heat recovery

Flexible installation, comfort and efficient ventilation.

Maximum functionality extending to heat recovery and very flexible installation options make the AEROMAT VT WRG the optimum solution for efficient ventilation concepts and elegant facades. With outstanding sound absorption, modern filter technology and integrated humidity, temperature and air quality sensors, it automatically provides a healthy indoor environment and the smart version can also be operated via the SIEGENIA Comfort app.



Wall-mounted ventilation units

Powerful and flexible solutions for every requirement.

AEROTUBE WRG smart

Wall-mounted ventilator for automatically alternating supply air and exhaust air with high heat recovery.

As an individual single solution or as a cross-room ventilation system: with their different modes of operation and comfort functions, the AEROTUBE unit versions open up all options to you. The AEROTUBE WRG smart automatically adapts its air throughput to the relative humidity. The economical operating mode coupled with high heat recovery leads to one of the most energy-efficient devices in its class (A+). It can be used in pairs, across rooms and controlled via the SIEGENIA Comfort app. As well as the supply air and exhaust air interchanging at minute intervals, pure supply air or exhaust air operation is possible.



AEROVITAL ambience smart

Modern high-end wall-mounted ventilator.

With effective sound absorption, filter technology and high standard of comfort, the AEROVITAL ambience smart provides a well controlled and healthy indoor environment. The simultaneous aeration and ventilation is quiet but efficient and recovers the majority of heat. The ventilation unit can also be operated with the SIEGENIA Comfort app therefore opening up a wide range of additional functions.

For example, it measures the air quality and can control it automatically.



SIEGENIA®
brings spaces to life

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