GEZE

Connecting expertise – building solutions.

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Editorial 05

Building automation
GEZE Cockpit building automation system 06
Use case – Intelligent networking solution with BACnet 08

Automatic door systems
ECdrive T2 sliding door system 10
Use case – More convenience for travellers with GEZE automatic doors 12

Door technology
GEZE ActiveStop door damper 14
TS 5000 SoftClose overhead door closer 16
FA GC 170 wireless extension kit 18
Use case – Fire protection solution with wireless hold-open systems 20
RSZ 7 smoke switch control unit 22
MSW Comfort manual sliding wall system 24

Window technology
MBZ 300 N8 control panel 26
GEZE IQ box KNX interface module 28
Use case – Smart and safe ventilation 30
System solution – Climate-active façade 32
Slimchain 230 V chain drive 34

Safety technology
IQ lock self-locking panic locks 36
FT300 electric strike 38

International solutions – all according to the specific needs 40

Service solutions
Building Information Modeling (BIM) 42

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Let’s talk about your challenge!

Realising buildings in harmony with people
and the environment is an amazing task.
We will be happy to help you
in handling it in the best possible manner.
Where we take the load off your shoulders,
so that you can focus on
what’s really important.
Because today, we’re already thinking
about the developments of tomorrow.
Because we will make sure
that your projects really get ahead.
And because your needs
are at the heart of our work.
In this way, we can develop specific solutions
for whatever challenges you face –
never losing sight
of the the bigger picture.

That is our way:

Connecting expertise – building solutions.

GEZE COCKPIT BUILDING AUTOMATION SYSTEM

The first smart door, window and safety system

As the first smart door, window and safety system our GEZE Cockpit is bridging the gaps in building automation. With smart software and open interfaces the unique networking of door and window technology provides completely new options for all planners and operators when it comes to automating buildings. For more efficiency, safety, and convenience. For dynamic safety and fire protection concepts, intelligent smoke and heat exhaust, and the targeted release of escape routes. For modular automation and for more opportunities.

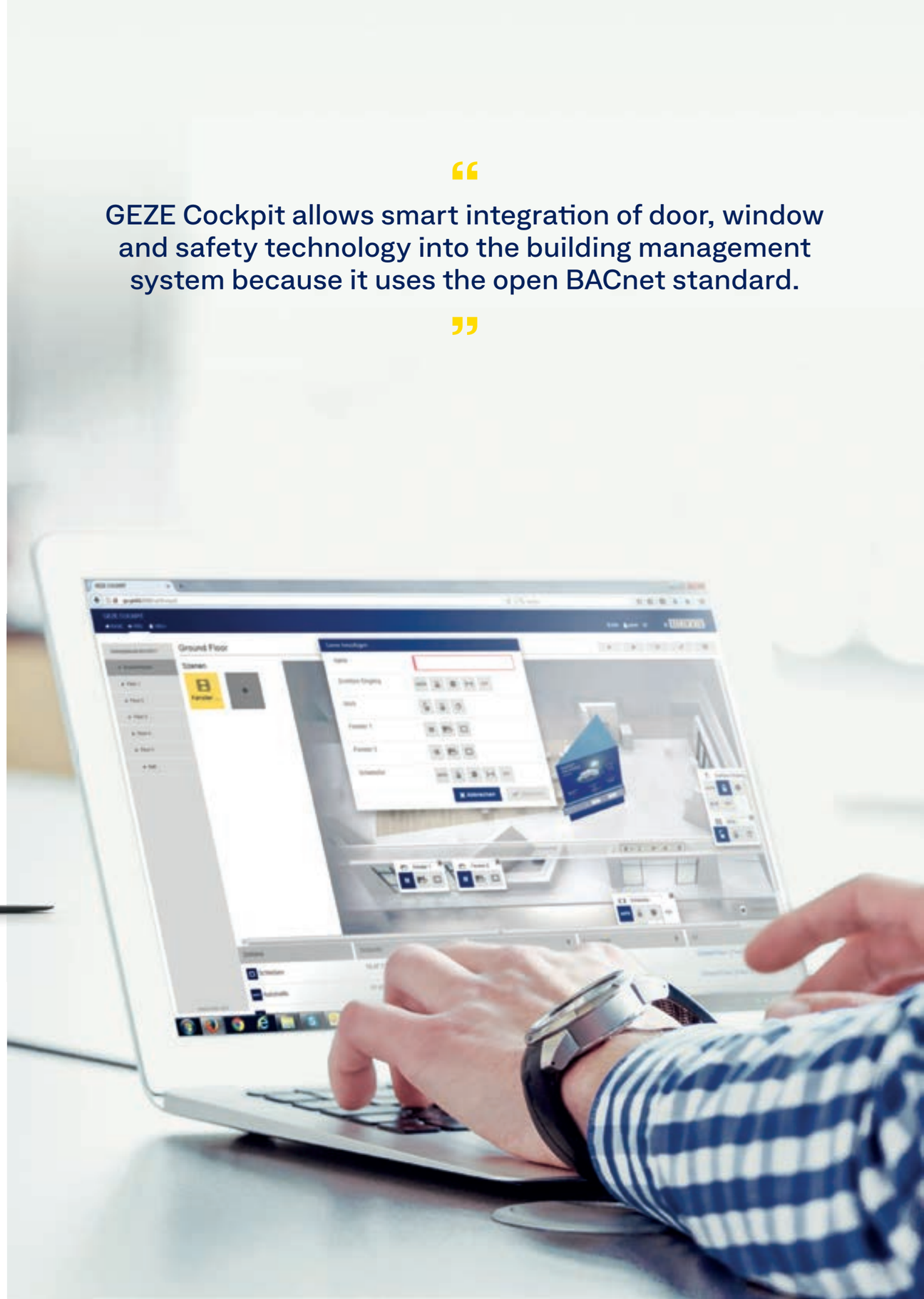
With the open BACnet standard, GEZE Cockpit can integrate door, window and safety technology into the building management system. It can be used as an independent stand-alone solution, or it can be integrated into a higher-ranking building management system. The hardware component consists of an embedded system, which allows the installation of three different software packages. Data is exchanged via the IO 420 interface module. Whether you use a PC, tablet, or smartphone: the applications for GEZE Cockpit are browser-based, so they can be operated on every IP-enabled device.

Different software packages – all according to demand — In the GEZE Cockpit BASIC application, GEZE Cockpit can be integrated into a higher-ranking building management system to operate and monitor installed GEZE products. Comprehensive configuration software and user data management are also available for use. The GEZE Cockpit VISU and VISU+ applications allow the solution to be used as an independent building automation system. The GEZE Cockpit VISU version e.g. includes an application that enables you to visualise products – this way, the specific mode can be detected and changed at any time and independently of the location. With GEZE Cockpit VISU+, alarms, monitoring and a notification service can be configured by email - meaning that all products can be monitored without the need for a visual inspection.

COMPACT

- Efficient and safe building automation system for GEZE products
- Safe data exchange via the BACnet communication standard
- User-friendly applications, browser-based
- Different software packages GEZE Cockpit BASIC, VISU and VISU+
- Can be integrated as a top hat rail housing for installation in switch cabinet

> GEZE Cockpit allows smart integration of door, window and safety technology into the building management system because it uses the open BACnet standard.



USE CASE

Intelligent networking solution with BACnet

PROJECT
Office building
Vector Informatik GmbH
Stuttgart, Germany

> Maximum safety, comfort and efficiency are guaranteed if you have the functionality of the product groups in view and are able to operate them anytime and from anywhere.

FOCUS
Maximum safety
Best possible user convenience
Efficient, economically-attractive building operation

DEMAND
Interdisciplinary functionality of doors and windows, heating and ventilation

Interaction between door technology and climate control

Central monitoring and operation

GEZE SOLUTION
Smart networking of 62 doors via the GEZE Cockpit building automation system with connection to IO 420 and integration into the building management system

Safe support and co-ordination for communication between product group experts across the building life cycle

ECDRIVE T2 SLIDING DOOR SYSTEM

New design – increased functionality

Automatic sliding doors ensure convenient passages in places where many people meet. The continued development of the reliable ECdrive sliding door solution offers new advantages, especially for the demands of doors that are very large and/or wide. With the optional use of a double roller carriage, the leaf weight increases to up to 140 kilogrammes in combination with the new thermally separated profile. This in turn increases the leaf's size by almost 20 % – for instance as real 'eyecatchers' in shop fronts. A reinforced track helps to improve running characteristics.

By contrast, the cover height of the drive is decreased from 120 millimetres to a slim and elegant 100 millimetres. Installation and alignment are quick and easy, thanks to pre-drilled tracks and slots in the tracks.

The new ECdrive T2 can be combined with the fine-framed, thermally separated profile, and a thermally separated fanlight. This ensures optimal insulation and is yet another design highlight, thanks to the fine-framed, sophisticated profile. The fanlight variants, which are available in one or two parts – including possible side façades – also support the desire for large, transparent door systems. For increased safety – for example, in 'night mode' – the profile can be equipped with a manual or motorised hook bolt lock. Like all GEZE sliding door systems, ECdrive T2 can be flexibly integrated into BACnet networking solutions with GEZE Cockpit via the IO 420 interface module.

COMPACT

- Slimmer cover height of 100 mm
- Reinforced track for improved running characteristics
- Can be combined with fine-framed, thermally separated profile, and a thermally separated fanlight
- New service interface for simple maintenance
- Increased leaf weight load bearing capacity up to 140 kg in combination with thermally separated profile
- Tested as per the AutSchR standards, DIN 18650-1/2 and DIN EN 16005

USE CASE

More convenience for travellers with GEZE automatic doors

PROJECT
Cruise terminal
Roma Cruise Terminal (RCT)
Civitavecchia, Italy

> Everyday, safe and comfortable check-in must be possible for thousands of cruise vacationers.

FOCUS
Reliable accessibility
High user convenience
Optimal safety

DEMAND
Efficient and safe handling of cruise ships
Safe escape routes
Central monitoring and operation

GEZE SOLUTION
Automatic door systems, including emergency exit safety

Corrosion-proof and waterproof door drives for marine traffic technology

Safe support and co-ordination for communication between experts involved across the building life cycle

GEZE ACTIVESTOP DOOR DAMPER

New door control

Rooms can be entered more comfortably than ever before. GEZE ActiveStop ensures controlled and damped opening, closing and holding open of room doors. This door damper can be integrated discreetly into the door leaf or retrofitted onto the leaf, by sticking it on, so that subsequently it can be removed easily. This protects the door as well as walls and furniture.

Whether with a gentle or energetic push – GEZE ActiveStop independently opens doors up to the hold-open position which can be set individually between 80 and 140 degrees. Doors are slowed down in time, and remain open securely in the desired position. Thanks to active damping, they close gently and quietly when they reach about 25 degrees. Doors run freely at between 25 and 60 degrees. They are stopped securely from 25 or from 60 degrees. GEZE ActiveStop also keeps doors closed safely and autonomously. No lock latches are needed.

The door damper's outstanding design has already won several awards. GEZE ActiveStop received its most recent award at the ICONIC AWARDS 2018: Innovative Interior – Best of Best.

COMPACT

- Controlled opening and closing of doors with leaf weights of up to max. 45 kg
- Individual back check between 60 and 140 degrees, for glass doors up to 110 degrees
- Door opening angle with variable adjustment from 80 to 140 degrees, for glass doors up to 110 degrees
- Safe damping in the direction of closing movement from 25 degrees
- Installation fitted on the frame: for flexible retrofitting on glass and wooden doors
- Integrated variant: unobtrusive integration into door leaf, installation depth only 28 mm

TS 5000 SOFTCLOSE OVERHEAD DOOR CLOSER

Gentle, powerful and accessible

Reliable door closing – even in unfavourable environments: the new GEZE TS 5000 SoftClose door closer convinces with its excellent flexibility. Depending on demand, a latching action can be set, or the door leaf can be slowed down to the last opening degree. Thanks to this optimised closing process, the door is still pulled safely into the lock with consistent power. This way, doors close safely and gently, even in difficult conditions such as wind and draught, in areas such as underground parking garage interlocking door systems or stairwells.

The TS 5000 SoftClose door closer is also the right choice when you require doors to be closed quietly and safely – whether in clinics, hotels or apartment buildings. By damping the door shortly before the closing position is reached, doors don't bang when they close. The end closing speed can be regulated easily and flexibly via a valve. The new variant also satisfies the specifications of the DIN 18040 standard for barrier-free building up to a leaf width of 1,100 millimetres.

Since the new door closer is compatible with all variants belonging to the GEZE TS 5000 series, existing solutions can easily be exchanged, without this requiring additional components. It can also be used with all types of guide rail.

COMPACT

- Reliable, gentle closing, even in unfavourable conditions (e.g. underground parking interlocking door systems)
- Closing speed in latching action area with variable adjustment
- Suitable for different system versions
- Can be used flexibly (e.g. leaf or transom installation, hinge or opposite hinge side, etc.)
- Simple exchange with all TS 5000 series variants
- Accessible in accordance with DIN 18040, for leaf widths up to 1,100 mm

ICONIC AWARDS 2019
INNOVATIVE INTERIOR
winner

FA GC 170 WIRELESS EXTENSION KIT

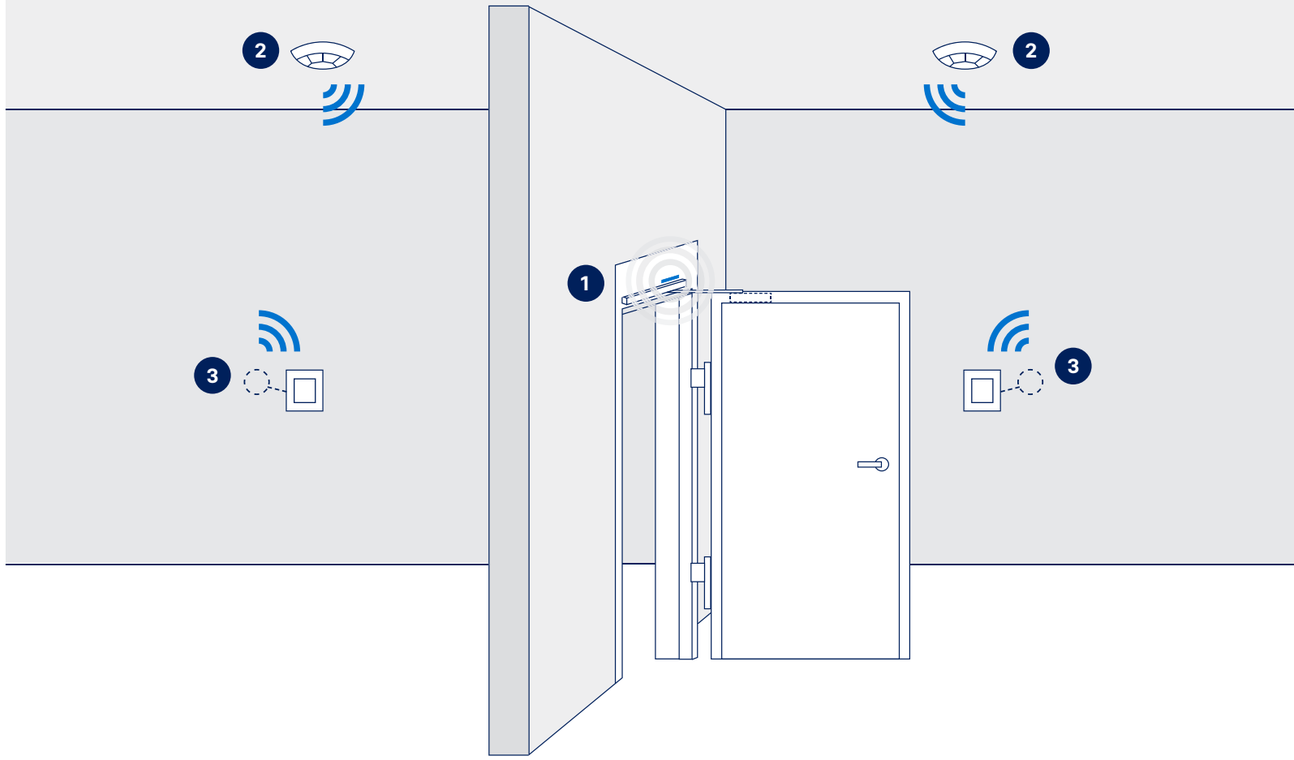
Clever components for hold-open systems

The new GEZE FA GC 170 wireless extension allows wireless connection of the ceiling-mounted detector and the manual trigger switch to the lintel-mounted detector for all GEZE hold-open systems. Separate cable-laying is no longer necessary. This facilitates planning, in particular in listed buildings. In addition, the new solution can be retrofitted easily. The new system has been tested in accordance with the European DIN EN 54-25 standard for fire alarm systems. The long battery life of five years ensures low maintenance costs.

Double award-winner: The expert jury of the German Design Award 2019 recognised the new wireless extension with a 'special mention' in the Building & Elements category. This title recognises projects with a design that uses highly successful aspects or solutions. At the ICONIC AWARDS: Innovative Architecture, FA GC 170 received the 'Selection' award in the Product category.

COMPACT

- Wireless connection of ceiling-mounted detector and manual trigger switch with the lintel-mounted detector
- Optimised for all GEZE hold-open systems
- Simple planning and uncomplicated retrofitting
- Quick and easy connection with the DIP switch
- Low servicing costs, thanks to a long battery life of 5 years



EXAMPLE OF A HOLD-OPEN SYSTEM WITH WIRELESS OR WIRED COMPONENTS

- **1a** Power supply for hold-open device/ trigger mechanism, e.g. R guide rail
- **1b** Door closer, e.g. TS 5000
- **1c** GC 171 wireless module
- **2** GC 172/GC 173 wireless ceiling-mounted detector
- **3** Manual trigger switch with GC 175 wireless input module

ICONIC AWARDS 2018 INNOVATIVE ARCHITECTURE selection

GERMAN DESIGN AWARD SPECIAL 2019

USE CASE

Fire protection solution with wireless hold-open systems

PROJECT
Historic building
Dortmund business association
Dortmund, Germany

> No walls had to be destroyed for the additionally needed ceiling-mounted smoke detectors thanks to the GEZE wireless hold-open systems.

FOCUS
Reliable fire protection
Barrier-free access convenience
Easy installation

DEMAND
Accessible fire protection doors
No changes to historical room aesthetics
Costs and building expenses savings

GEZE SOLUTION
FA GC 170 wireless extension with general construction technique permit for GEZE hold-open systems

No separate cables need to be laid for detector or manual trigger switch, no openings in walls

Tested as per the European standard for DIN EN 54-25 fire alarm systems

Low maintenance costs thanks to longer battery lifespan

RSZ 7 SMOKE SWITCH CONTROL UNIT

Completely flexible!

New solution for unfavourable lintel situations, which, e.g. leave too little space above the smoke chambers: the new RSZ 7 smoke switch control unit possesses a new telescope function. The smoke detector can be extended, thus allowing to bridge overhangs of about 30 millimetres.

The smoke switch control unit is connected to the 230 Volts power network via the integrated power supply, and it reliably supplies each connected GEZE hold-open device with a 24 Volts direct current (DC). The control unit is attached to the vertical wall above the active leaf, enabling early fire and smoke recognition.

In the event of an alarm, the voltage supply to the hold-open devices is interrupted and the doors close immediately. Two additional ceiling-mounted detectors or the new FA GC 170 wireless extension components can be connected if necessary. The integrated smoke switch possesses an automatic adaptation of the alarm threshold, which compensates minor smoke chamber contamination – this increases the lifespan of RSZ 7.

COMPACT

- Extendable smoke switch control unit for all GEZE hold-open devices
- Telescope function for bridging overhangs of up to 30 mm
- Automatic adaptation of the alarm threshold including contamination indicator
- Visual display of current RSZ 7 status
- Additional smoke switches can be connected

MSW COMFORT MANUAL SLIDING WALL SYSTEM

Clear design – convenient and safe

A new automatic locking concept for manual sliding wall systems (MSW) makes operation even safer and easier – for example, in high-end retail construction. The new solution MSW Comfort uses an activator unit to lock the glass elements in the floor and the elements to each other. This means that MSW systems can be automatically locked and unlocked, simply, comfortable and with little physical effort – all without manual operation of the manual locking device.

This in turn also reduces the time taken for opening and closing system fronts. Convenient operation is even possible for segmented system fronts with a directional change from element to element of up to 15 degrees. There is no obstruction to the clear design, since no locking elements are visible from the front.

Your planning partner – With our apps and tools, we will support you in all stages of a project. MSW systems can be comprehensively planned by entering only little data using the MSW configuration tool. Automatically generated layout and detailed drawings simplify system installation, thereby reducing time. The configured MSW systems can then be ordered directly and conveniently via our client portal.

COMPACT

- Safe locking and unlocking of shop fronts
- Automatic locking and unlocking in the floor, as well as of the elements to each other
- Fast, convenient locking and unlocking, with little physical effort
- Clear design, without visible operating elements
- Less time needed for opening and closing system fronts
- No manipulation of the locking layout possible from the outside

MBZ 300 N8 CONTROL PANEL

Compact professional for safe solutions

In the event of a fire, control panels open window drives safely and reliably – and provide fresh air in daily life, by means of controlled natural ventilation. The new N8 variant of the MBZ 300 modular bus control unit convinces with its particularly compact housing. This makes it the right choice for small and medium sized buildings and stairwells. Thanks to its modular structure, the configuration can be customised and extended.

Installation and commissioning are simple and fast, and no further configurations are needed for standard use. If necessary, the configuration software enables fully flexible, comprehensive, project specific adjustments, in addition to depicting complex smoke and heat extraction functions – also retroactively. For an optimum line feed within the building, the MBZ 300 N8 can be installed as a central control unit in the building, or used in a decentralised manner, in the form of several networked control panels.

COMPACT

- Compact 24 V control panel with 8 A output current
- Fast installation using a drive module with wired terminal blocks
- Free socket for an additional MBZ 300 module
- Project specific adjustments can be made using PC configuration software
- Easy commissioning of standard applications without setting further parameters

GEZE IQ BOX KNX INTERFACE MODULE

Direct dialogue between windows and components

A natural, energy-efficient supply of fresh air whenever needed – entirely on demand and controllable at all times: the new GEZE IQ box KNX interface module enables the direct integration of the window drives of the IQ windowdrive range into KNX building systems. This facilitates dialogue with other KNX-capable components, such as push buttons and sensors.

In contrast to simple switch contacts, the IQ box KNX uses the intelligence of the window drives and, after performing a 'command', reports the mode of a window back to the KNX building system or building management system. Continuous information on the window, such as the exact opening width, is also provided via the module.

COMPACT

- Position-specific activation of IQ windowdrive
- Safe integration in the KNX world
- Scalable system – depending on the demands
- More efficient window monitoring
- Reliable status reports for each automated window
- Easy to retrofit and expand, depending on demand

USE CASE

Smart and safe ventilation

PROJECT
Public building
Leonberg town hall
Leonberg, Germany

> Our project experts have accompanied the construction project since the planning phase and brought in their many years of comprehensive experience in barrier-free building construction.

FOCUS
Increased safety and accessibility
Sustainable energy concept

DEMAND
Automated window opening
Co-ordination and monitoring of window systems
Automated night-time back cooling
Barrier-free escape routes

GEZE SOLUTION
Concept for barrier-free use of the building

Integration of GEZE drives into the building management system via the IQ box KNX

Automatic swing doors which combine fire protection and safety along escape routes

SYSTEM SOLUTION

Climate-active façade

Window drives of the GEZE IQ windowdrive series, such as the Slimchain and Powerchain chain drives, can be connected to the KNX building bus via IQ box KNX. Further components – such as heating or air conditioning – can also be integrated using KNX actuators. KNX sensors provide data regarding room air quality and outside environmental conditions. This ensures an optimum, energy-efficient indoor climate.

SLIMCHAIN
SLIM ALL-ROUND TALENT

- Compact Slimchain chain drive for a discreet façade design
- Suitable for natural ventilation, smoke and heat extraction and natural SHEVs
- Different stroke variants of 300 mm, 500 mm and 800 mm
- Individually adjustable drive strokes and speeds
- Simple synchronisation of up to four drives, without external control device

POWERCHAIN
REAL POWER PACKAGE

- Powerchain chain drive for heavy façade windows and roof windows
- Suitable for natural ventilation, smoke and heat extraction and natural SHEVs
- High opening speeds and large opening widths in case of smoke and heat extraction
- Different stroke variants 600 mm, 800 mm and 1,200 mm
- Individually adjustable drive strokes and speeds
- Simple synchronisation of up to four drives, without external control device

KNX AIR QUALITY SENSORS
OPTIMUM AIR QUALITY

- Reliable detection of CO_2 concentrations, humidity and room temperature
- Precise activation of the window drives in connection with IQ box KNX
- Controlled ventilation and improved indoor climate
- New energy-saving potentials

SLIMCHAIN 230 V CHAIN DRIVE

Simple, natural ventilation

It is the slim all-rounder: the GEZE Slimchain chain drive will also be available as a 230 Volts variant. Thanks to the 230 Volts connection, with cable plug, the drive can be installed quickly and easily. It can be inserted discreetly into the façade with its slim, compact design. Nothing stands in the way of comfortable, natural ventilation - in schools, offices or sports halls, or even within the comfort of your own home.

The 230 V chain drive is available in the 200, 300, 500 and 800 millimetres stroke variant with settable intermediate lengths. It can therefore be adapted to different window sizes and opening demands. The drive stroke and opening speed can be set individually with intelligent electronic devices.

COMPACT

- Concealed 230 V cable inlet to drive
- Different stroke variants 300 mm, 500 mm and 800 mm
- Individually adjustable drive strokes and speeds
- Simple and fast installation with the Smart fix installation system
- Direct drive connection via a connection terminal, with cable plug

IQ LOCK SELF-LOCKING PANIC LOCKS

Green light for the new generation

Fast door opening in emergencies, monitored access and burglar resistance: self-locking panic locks satisfy a variety of building safety demands. The new generation of IQ lock self-locking panic locks also provides new functions. In the electrical IQ lock EL variant, the motor lock control is integrated into the housing – no additional installation is needed. In combination with the GEZE IQ lock Emergency Power buffer – mounted directly in the door leaf – and an automatic swing door drive, a complete fire door system can be realised.

Installation in the door also eliminates signal transfer between the control and motor lock via the drip loop – and therefore a potential source of errors. The motorised opening of the lock ensues in less than one second, enabling comfortable passage of the door. The double divided cross latches ensure that the lock can be unlocked safely, without jarring, even under preload.

In the first step, the IQ lock EL, IQ lock C and IQ lock M variants will be available with distances of 72 millimetres (for Euro profile cylinders) and 74 millimetres (for Swiss round cylinders) and the 65 millimetres backset.

COMPACT

- Self-locking panic locks for single-leaf solid doors
- Easy extension to include emergency power buffering – entirely as required
- Integrated motor lock control in housing
- Optimal signal transmission, thanks to short electrical paths
- Motor unlocking in under one second

FT300 ELECTRIC STRIKE

Flexible safety for fire protection doors

Electric strikes are important aids for highly-frequented doors. Special electric strikes are essential for fire protection doors. The new variant is approved, and therefore optimally suited, for use on fire protection doors. FT300 offers more comfort, since it opens doors even under a preload of up to 500 Newton when fully latched. The latch engagement depth for double leaf solid leaf doors is 9 millimetres. Simultaneously, the electric strike offers a maximum locking force of 10,000 Newton against being broken open, and can therefore also be used as a security electric strike.

Thanks to a new connection technology, installation is easy: the terminal block contains all the necessary terminals, thus enabling universal installation. Moreover, the new electric strike fits in the usual strike plates, and can also be easily adjusted in this instance.

COMPACT

- Safe opening under preload of up to 500 N with full latch engagement
- Latch engagement depth of 9 mm (for double leaf solid leaf doors)
- Suitable for single and double leaf solid leaf doors
- Maximum holding force of 10,000 N against the door being broken open
- Simple installation by adjusting the electric strike in the strike plate
- Tested fire protection permit as per DIN EN 14846:2008

GEZE WORLDWIDE

International solutions – all according to the specific needs

With their quality, comfort and design, our intelligent products impress our customers across the globe. With our product portfolio, which covers all aspects of door, window and safety technology, 28 subsidiaries abroad are working on the mutual task of creating liveable buildings. Our latest new subsidiary is located in Korea, and went into operation in December 2018.

Highest standards everywhere — Our mutual goal is to comprehensively support customers and partners throughout the entire building lifecycle – from planning, to installing the selected solutions, right up to commissioning, and after sales service. We produce project-related, customised solutions at our headquarters in Leonberg, as well as in Tianjin (China), Zrenjanin (Serbia), Barcelona (Spain) and Reiden (Switzerland).

AUTOMATIC SWING DOOR DRIVE UFO NT

- → Underfloor variant of the Powerturn swing door drive
- → Automatic drive is installed invisibly in the floor and in the wall
- → Suitable for doors weighing up to 125 kg and with a width of up to 1,250 mm

> "We offer variants adapted to the respective country – suitable for the needs of the respective market."

STYLISH SOLUTIONS GLASS FITTINGS

- → Complete set with clamping fittings for all-glass systems
- → Elegant cover caps made from polished or brushed stainless steel
- → Modular structure with base, functional accessories and cover caps

CCC-F CERTIFIED SMOKE AND HEAT EXTRACTION SYSTEM (RWA)

- → Smoke and heat extraction solution with special CCC-F certification
- → System from MBZ 300 emergency power control unit, the Slimchain and Powerchain chain drives and the E 250 NT spindle drive
- → Reliable smoke and heat extraction and controlled natural ventilation

ONE FOR ALL DOOR HARDWARE

- → 'All-in-one' solution for wooden and metal doors
- → Complete set with mortice locks, Euro profile cylinders, handles and folding hinges
- → High availability and fast delivery times

AUTOMATIC SLIDING DOOR DRIVE ECDRIVE 80

- → Automatic sliding door solution for light interior doors
- → Moves door leaves with a weight of up to 80 kg

BUILDING INFORMATION MODELING (BIM)

Complete door planning – now even easier

GEZE networks all parties involved in a project and supports customers and partners with know-how through the entire building life cycle – beginning with finding ideas and planning with the GEZE solution for building information modeling (BIM). This is constantly being developed, and complies with both national and international standards. The GEZE BIM objects are available for the CAD programme Revit in leaner, individually extendible variants in German, French, English and Spanish. The Revit objects can be adapted to satisfy country-specific demands, depending on what is needed. Completely new door libraries are available for all CAD variants of GEZE BIM objects: architects and planners benefit from pre-configured door solutions – for example, entry solutions in different basic variants: allowing simpler, clearer planning.

With GEZE BIM objects, all doors in a building can be planned without any complications. From swing doors to sliding doors, and right up to revolving doors; anything can be depicted by using five multifunctional basic door types. GEZE BIM objects are compatible with the most commonly used CAD programmes. Planners can generate their lists of doors directly from the building model.

COMPACT

- All door solutions can be generated by using five basic varieties
- New door libraries for all leading CAD programmes
- Individually adjustable, depending on the country or project
- Can be used flexibly in every phase of the project
- Complete 3D depiction possible
- Complete lists of elements at the push of a button
- Can be used offline and without plug-ins

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GEZE GmbH | Reinhold-Vöster-Straße 21–29 | D-71229 Leonberg
TEL +49 7152 203-0 | **WEB** www.geze.com | **MAIL** info.de@geze.com