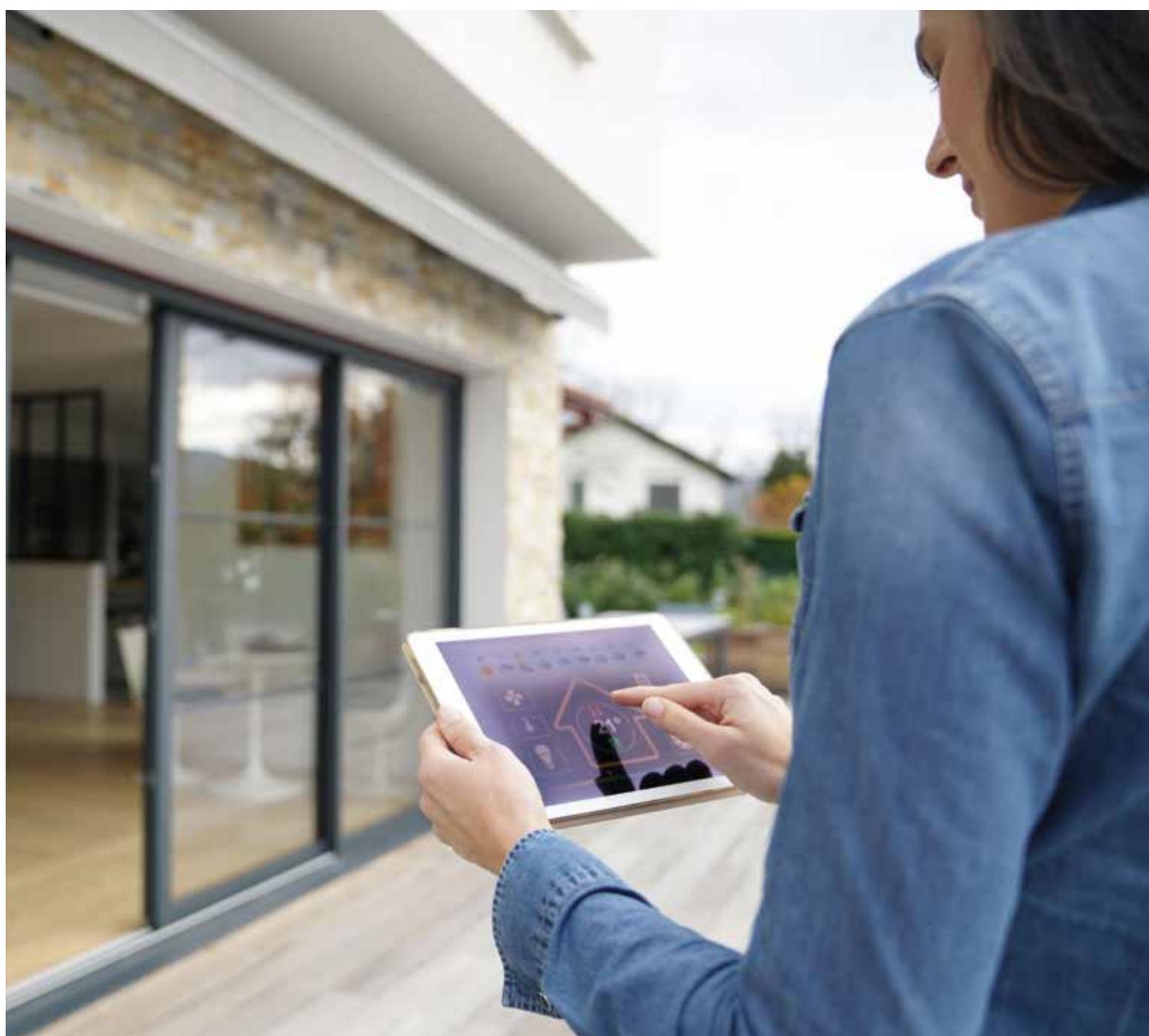




TECHNOLOGY IN MOTION

# Smart Home: The digital building envelope

WITH **SMART BUILDING COMPONENTS**  
FROM MACO & HAUTAU



# Smart Home ready? Windows and doors in the secure building

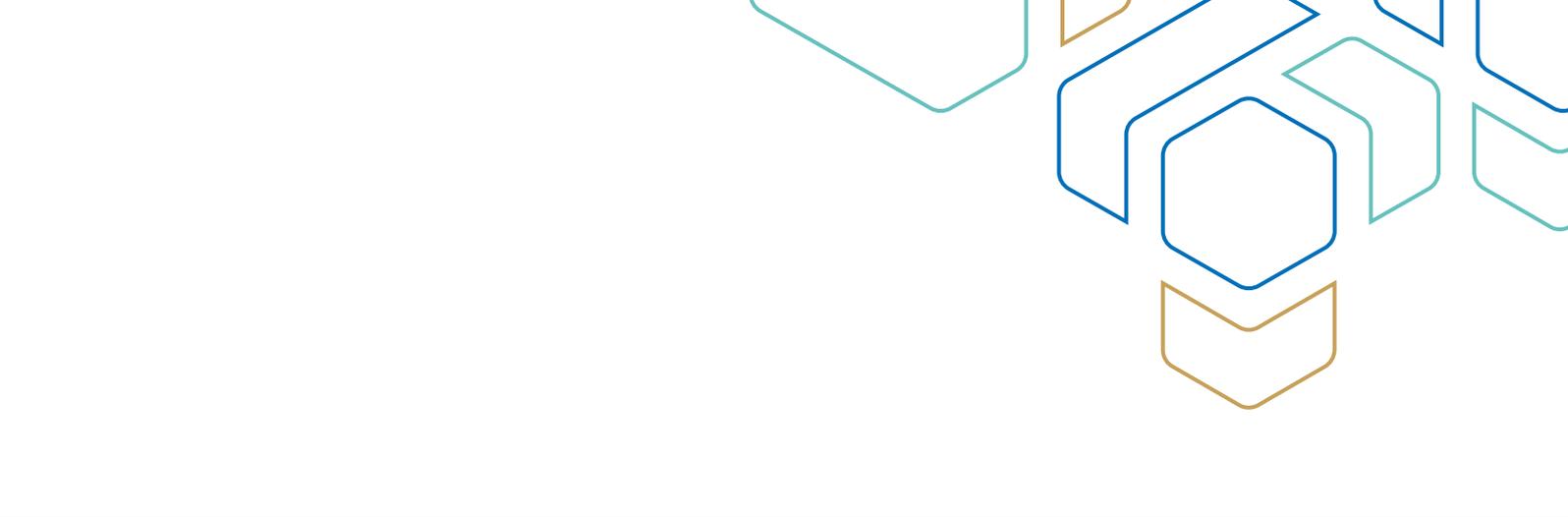
Do your customers not only want to control the lighting, heating and home theatre in their home at the touch of a button, but also want to integrate their windows, doors and sliding elements into their existing smart home system?

Then, make these components smart-home-ready and fill the gaps in the building envelope with our hardware solutions. After all, it is only when windows and doors are networked with other building components and are controllable via an App that a home becomes truly smart, comfortable and secure.

Join us in our world of smart building components. On the following pages we show you how you can produce intelligent windows and doors with the right hardware solutions. From A to Z, everything is covered for windows and doors - from automatic drive operation and control to status monitoring for open, tilted, closed or locked.

Many possibilities, simply achieved. Show your customers what's possible in a Smart Home and prepare them today for what will be standard tomorrow.





**Sliding door automation**



**Window automation**



**Smart Home integration**

**Smart Home integration**

Have you installed and tested all the sensors and drives? Then, everything is done from your side. Now, the electronics specialist or the owner himself takes over the integration into the Smart Home system.

# How smart should it be?

## This depends on the situation

Many roads lead to Rome. The decisive factor is which path you take! Do you produce building products for new construction or does your customer want to retrofit?

**The property analysis is the very start.**

### New construction...

In a new building, you have all the possibilities. Take advantage of the room for movement and show that a new home will be a long-term home when equipped with automatically opening windows, doors and sliding elements.



Automatic operation and control requires drives that need a power connection for their power transmission. Plan for wired hardware solutions such as windows, doors and sliding motors during the concept phase, so that walls do not need to be broken open later on.

Status monitoring in a new construction allows you to do both - wired and wireless solutions. Combine easily and integrate into commercially available Smart Home systems. For certified alarm systems, rely on wired solutions.

### ... or retrofitting?

If you want to retrofit a home, rely on wireless solutions, as long as no structural change is required. These take on the status monitoring of windows and doors.



Would you like to retrofit status monitoring? Then rely on wireless sensors. You can implement these retrospectively and independently in windows, doors and sliding elements, and connect them quickly to common Smart Home solutions.

## Strong together

With MACO and HAUTAU products, your elements are quickly smart-home-ready. We ensure compatibility with established manufacturers as listed below, to name just a few, as well as secure wireless standards.

MACO delivers everything ready to plug in, so that you as a fabricator have very little effort. The rest is done by the electrician or the property owner themselves.



# Monitoring?

## Wired solutions

With wired solutions, you lay the foundation for an all-round Smart Home that can grow with its demands. By installing these components, you create real added value - a flexibility that costs little when you buy, but saves a lot of money and effort when needed later on. In addition, many of our wired solutions are VdS-certified and can be coupled with alarm systems. Convincing for both you and your customers!

### MAGNETIC PIN MODULE FOR CLOSURE MONITORING

A simple magnetic pin module on the Z-TS lock prepares the lock for closure monitoring via a reed contact.



### INTEGRATED CLOSURE MONITORING

Closure monitoring is already integrated into the M-TS motorised lock and the innovative DOOR closure INSTINCT by MACO.

### DEADBOLT SWITCH CONTACT FOR CLOSURE MONITORING

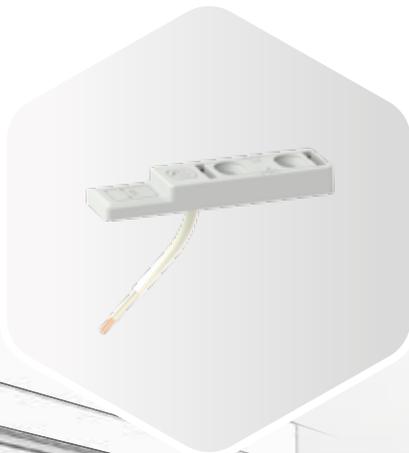
Easily integrated into the striker plate and monitors all cylinder-operated locks.



## So small, yet so smart

By inserting a simple reed contact, you provide opening or closure monitoring for your customers. Depending on the hardware configuration, this can be done on windows, lift&slide elements and door locks.

Whether it's a door lock, reed contact or deadbolt switch contact - with their integrated feedback contact, they communicate the opened or closed status via a cable to the gateway of the house control system, or to actuators such as the heating control, alarm siren or smartphone.



### REED CONTACT FOR OPEN MONITORING

Mounted in the rebate and with a magnet as counterpart, it monitors whether the window or the door is open or closed, independently of the hardware.



### REED CONTACT FOR CLOSURE MONITORING

Mounted in the rebate and coupled with the hardware, it monitors whether windows and sliding doors are open or locked.

### Open, closed or locked?

The **open monitoring** checks whether windows and doors are open or closed. This can be as little as when the sash sits against the frame, however this does not mean it is locked.

The **closure monitoring** checks whether windows and doors are open or actually locked. Here, the status of the locking element is checked.

# Wireless monitoring? With wireless sensors

Would you like a reliable status control in no time at all and without any structural change? With MACO's wireless sensors, you can have this completely cable-free on windows, doors and sliding elements. This gives you the ideal solution when it is necessary to integrate the components quickly into a Smart Home and to always have an overview.

## Always one step ahead



Whether a window is open, closed, locked or tilted - this all-rounder provides comprehensive burglary monitoring, 24 hours a day and without activation. In addition, the mTronic can be used in door and sliding elements for opening monitoring.



## Small - but powerful



The eTronic monitors open and locked windows and is installed on the hardware configuration without any changes.

Make windows smart-home-ready with the eTronic casing and add the sensor electronics only when the need arises..



 Possible mounting positions for **mTronic**

 Assembly position **eTronic**

## Secure all-around From one day to the next

- › Wireless sensors can be used universally (depending on the rebate gap and depth)
- › No cables necessary & easy installation with different installation options
- › Installed flush-mounted and impressive with their compact size
- › Can complement wired systems
- › Are easy to install and can be functionally checked with the MACO test device
- › Are compatible with many home control and common Smart Home systems
- › Rely on the secure and widely used EnOcean wireless standard



### Local building protection

The practical monitoring solution for local building protection. Simply pair the sensor with a light signal and/or siren to startle intruders. Particularly reassuring with tilted windows on the ground floor.

### Control on-the-go

When leaving the house, see at a glance which windows and doors are still open. Or check on the go whether everything is closed. This works when the home-owner integrates them into his Smart Home system.

# Automatic control and operation? With motorised door lock

Modern living means operation at the touch of a button in order to be able to open and close windows, doors or sliding elements automatically. Set the foundation stone for this with the motorised drive technology.

Nowhere else is motorisation progressing as fast than in the door area. The door key will soon become a relic, while opening the door becomes more and more diverse. Therefore, set new standards in comfort and security with automatic and motorised locks that meet these requirements - automatic locking or unlocking and comfortable opening with electronic access solutions.

## THE A-TS AUTOMATIC LOCK

Complemented with a motor you can already offer the perfect entry into the world of motorised doors. With this you open up a variety of access solutions, while potential-free interfaces enable their convenient integration. Plug & Play-enabled accessories such as a power supply, pestle contact or cable transition can be easily installed.



## Access solutions

### Smartphone, Fingerscan...

These are the new door openers - plug-in ready, you can easily integrate them into the motor and door. Alternatively, the door can also be controlled via a wall switch or smartphone as well as an having an integrated intercom.



### THE M-TS MOTORISED LOCK

This is the top class of motorised door locks and sets new standards in the industry. It is faster and quieter. How? The A-TS offers motorised day release and thanks to its flexible interfaces it is very easy to connect to common access control systems.

### Smart Home connection

For monitoring of your front door, you can place a deadbolt switch contact with a closure monitoring in the A-TS. This allows electricians or homeowners to easily and quickly integrate this into a VdS-certified alarm system or a Smart Home system.

The M-TS motor lock is already equipped with integrated closure monitoring as standard. A deadbolt switch contact is no longer needed.

# instinct<sup>o</sup>

#### COMING SOON:

Revolutionary locking technology for the entrance door 4.0. Smart Home ready as standard.



[maco.eu/instinct](https://maco.eu/instinct)

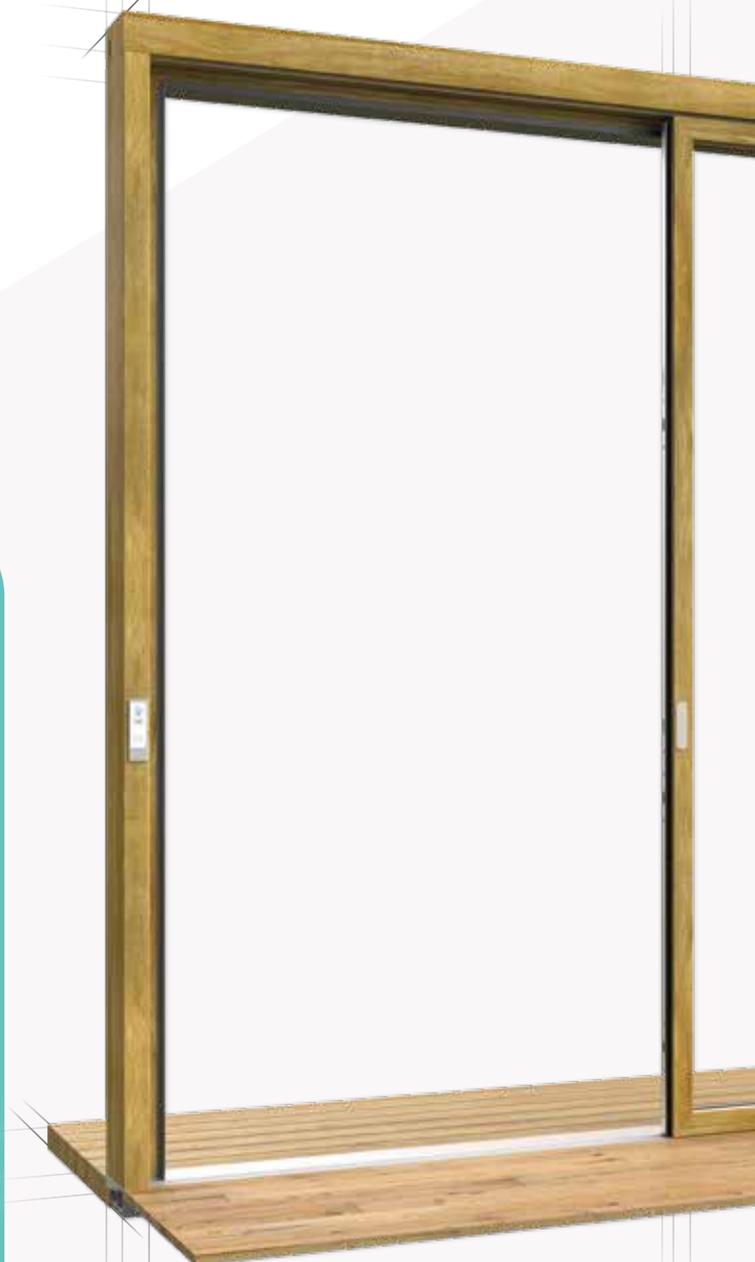
# Slide without force? With a motorised sliding door

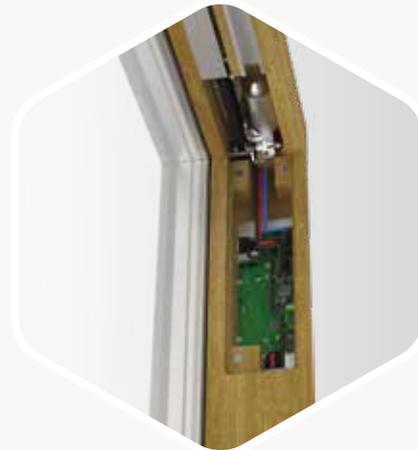
As glass surfaces get bigger, so does the desire for motorisation. Turn a sliding giant with a 10 m<sup>2</sup> glass surface into a lightweight. With the Comfort drive lift&slide motor you can move these heavy sashes at the touch of a button.



## COMFORT DRIVE

The Number 1 in terms of comfort and security. At the touch of a button, the motor opens, slides and locks the first RC-2 tested lift&slide hardware - completely automatically and barrier-free.





### COMFORT DRIVE

Opening large glass giants at the touch of a button - this is accessibility.



If you want to operate the sliding door from the outside, you can attach key buttons, finger scans or keypads.



### Smart Home connection

The motor can be coupled to any commercially available alarm or Smart Home system via a WLAN box and controlled via a smartphone app. This gives you control on the go. We make you smart-home-ready - the HAUTAU App for control is available free of charge in the App or Play Store.

# Automatic tilting and ventilation? With motorised windows

Do you want to automatically tilt and ventilate windows, even if they are in hard-to-reach places? With these drives, that is not an obstacle. Benefit from a wide selection as we have a solution for every requirement.



## THE ELECTRIC OPENER FOR WINDOWS AND FAÇADE ELEMENTS

The PRIMAT compact 195 skylight drive from HAUTAU.



## E-HARDWARE

The motorised drive in the window sash is connected to a wall switch and can be activated at the push of a button. This allows the window to be operated both by motor and manually by a handle – whatever the situation requires.



## Good to know

With commissioning devices, you test the functionality immediately after window installation, even if the electrician only wires it up later.



### DECENTRALISED WINDOW VENTILATION

Would you like to create fresh air with closed windows? Then HAUTAU VENTRA® in the reveal area is the ideal solution for a comfortable indoor climate – without the intervention of the residents. It removes damp, stale air from the room and provides preheated fresh air via the heat exchanger. Corresponds to energy class A.



Keep air quality constantly high and ventilate with sensor control. Combine the HAUTAU Multisensor with automatic window systems and control the ventilation as required with a central measurement of the room air. This is how you also prevent infectious diseases.

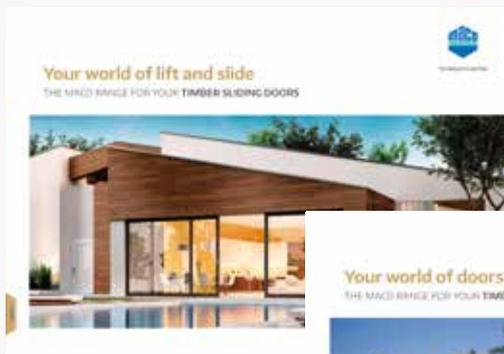
### Smart Home connection



Our smart building components all have open interfaces and can therefore be used as a stand-alone solution as well as in combination with other components and systems. This allows for operation and control via simple switches, via the central control unit of the house control system or via tablet or smartphone.

# Would you like security, comfort and control?

With us, you get perfectly and individually tailored security solutions as well as hardware components for easy integration into a variety of Smart home systems. Discover more on [www.maco.eu](http://www.maco.eu) or contact your MACO customer advisor.



**MACO in your area:**  
[www.maco.eu/contact](http://www.maco.eu/contact)



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