



## ekey finger scanners

Solutions for the electrical industry - ekey home | ekey multi



# Europe's No. 1 for fingerprint access solutions

More than one million satisfied customers are the best possible recommendation for our products! For many years, both private households and leading companies alike, along with organizations such as fire and rescue services, have been putting their trust in proven ekey finger scanners.

ekey was founded in 2002 and is now Europe's No. 1 for fingerprint access solutions. ekey puts authorization into the customer's hands! Keys, cards, codes, etc. can be lost, forgotten, or stolen. „Your finger is always on hand!“ ekey's wide range of products includes finger scanners for doors, gates, alarm systems, and time recording.

The international company currently has 90 employees at its 5 locations in Austria, Germany, Liechtenstein/Switzerland, Italy, and Slovenia, and exports its products to over 70 countries, which exports makes up 73% of its business. ekey's main sales markets include Spain and the USA, in addition to Austria, Germany, Switzerland, Slovenia, and Italy.

## QUALITY

All ekey products undergo a rigorous endurance test before they reach the market. The test involves intensive simulations of blazing heat, biting cold, and high humidity, and every finger scanner is subjected to these conditions, along with all of its components, countless times before reaching the customer.

Our quality formula comprises the highest standards of functionality, reliability, and security, which are refined by means of extensive testing.

Quality-tested products from ekey – you can count on us!

## CERTIFIED QUALITY

### MADE IN AUSTRIA:

- Extensive production, manufacturing, and functional testing (zero tolerance)
- Testing for environmental and temperature resistance
- Vibration- and shock-tested
- Tested for penetration of water and mechanical parts
- Quality management system in accordance with EN ISO 9001:2015
- CE-compliant



# Good reasons for ekey finger scanners

## Unique comfort with highest security

More than one million satisfied customers in over 70 countries around the world prove that ekey products are quickly becoming widespread among end users and companies. The many benefits of the finger scanner speak for themselves.



### UNIQUE COMFORT

You can't lock yourself out: your finger is always on hand!



### HIGHEST SECURITY

- No lost or stolen keys!
- Maximum protection against forgery thanks to liveness detection with RF sensor technology!
- Access rights (e.g., card or key) cannot be transferred!
- 1,000 times more secure than a 4-digit code!



### USER-FRIENDLY

Easy installation and administration!



### INTELLIGENT SOFTWARE

The ekey software is learning all the time – it can detect the growth of children's fingers as well as minor injuries and changes to users' habits.



### KNOW WHO IS COMING HOME

By using the ekey fingerprint access control system, building control systems can now detect which person triggers an action.



### 5-YEAR QUALITY GUARANTEE

for all ekey products!



#### ekey MEDIA CENTER

You can find all the information on our products on our website: [www.ekey.net/en/pro-mediacenter](http://www.ekey.net/en/pro-mediacenter)

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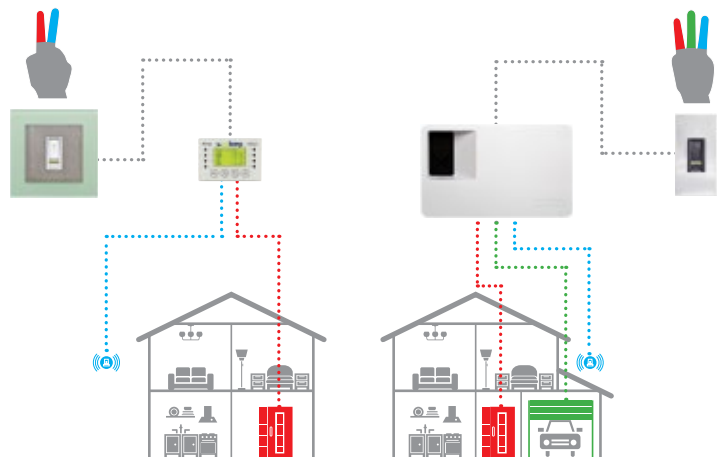
**Compatibility 81**

## ekey home

### Single-point access solutions

Control up to 3 functions with just one finger scanner\*.

- Can store up to 99 fingerprints
- Can control from 1 to 3 functions (e.g., door, gate, and alarm system)
- Easy to operate with central user administration directly via the control panel
- Or by using the *ekey home app* (*ekey finger scanner integra*, *ekey finger scanner arte*)
- Optional: access by card (RFID)  
-> can also store up to 99 cards

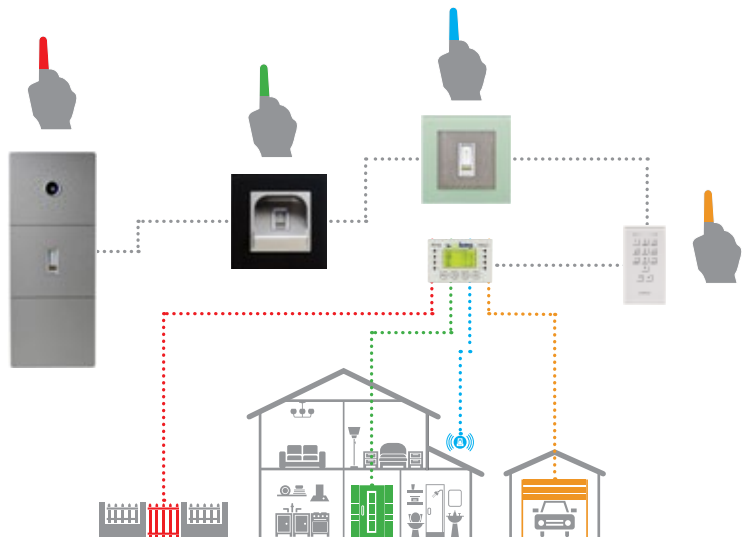


## ekey multi

### Multi-point access solutions

4 finger scanners\* are managed by a single control panel.

- Can store up to 99 fingerprints
- Supports up to 4 finger scanners
- Can control up to 4 functions per FS (e.g., door, gate, and alarm system)
- Individually programmable time slots
- Access log for every finger scanner
- Easy to operate with central user administration directly via the control panel
- User permissions can be assigned on a personalized basis (based on location and time)
- Vacation or permanent program
- Optional: access by card (RFID)  
-> can also store up to 99 cards



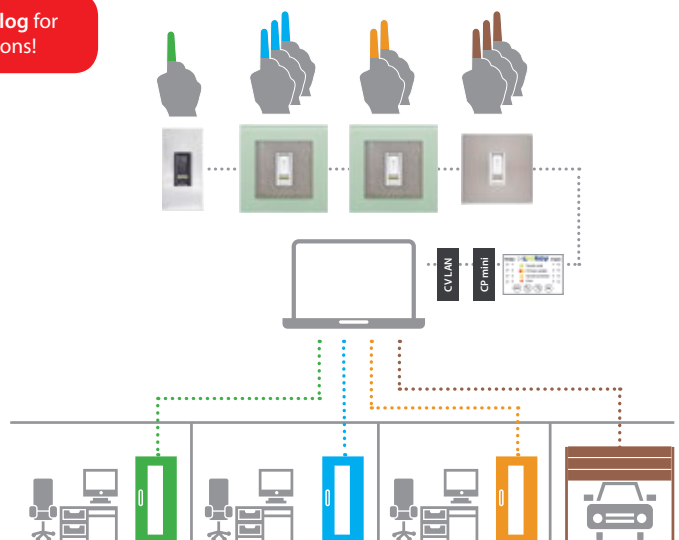
## ekey net

### Network access solutions

The networkable access solution for companies, organizations, and discerning households.

- Can store up to 2,000 fingerprints per finger scanner\*
- Supports up to 80 finger scanners
- Can control up to 4 functions per FS
- Programmable time slots
- Access log for every finger scanner
- Supports cross-site administration
- Central administration via PC
- Calendar function
- Interfaces for establishing external connections
- Optional: access by card (RFID)  
-> can also store up to 2,000 cards

See the „ekey net“ catalog for network access solutions!



\*Alternatively: code pad (keypad) -> can store up to 99 or 2,000 codes



# Planning steps for a successful project



1

## Select the system that suits the size of the project and meets customer requirements:

- a) Single-point access solution ekey home
- b) Multi-point access solution ekey multi



2

## Select a suitable finger scanner model and function (Bluetooth/RFID) or a code pad:

- a) Finger scanner wall-mounted (WM)
- b) Finger scanner outlet-mounted E (OM E) or outlet-mounted I (OM I)
- c) Finger scanner integra (IN)
- d) Code pad keypad integra (KP IN)

Select suitable accessories, if required: weather shield, wall mounting set, mounting frame, etc.



3

## Select a suitable control panel based on the following criteria:

- a) Wall-mounted (WM) or DIN-rail mounted (DRM, mini) inside the control cabinet
- b) Consider the number of functions required: 1, 2, or 3 functions with ekey home and 4 functions with ekey multi

**Attention:** 1 - 3 functions with different fingers possible on only 1 finger scanner, e.g., index finger on right hand = front door, ring finger on left hand = garage door, ring finger on right hand = alarm system (see the application example in the „Single family house“ project on page 7).



4

## Select a suitable power supply:

- a) Simple wall power supply (PS WPS)
- b) Convenient DIN-rail mounted power supply inside the control cabinet (PS DRM)
- c) Outlet-mounted power supply (PS OM)
- d) Uninterruptible power supply (UPS)

**Attention:** The scope of delivery for door stations often includes a power supply, which can be used for finger scanners and code pads too. Check the voltage and current needed to control the consumers (door strike, motorized lock).



5

## Select a suitable interface (converter), if required:

- a) For connection to home automation systems (ekey converter CV LAN and CV KNX)
- b) For connection to alarm systems or other access control systems (ekey converter CV WIEG)



## For door strikes and motorized locks, please note:

- a) Although door strikes are relatively inexpensive, they do not lock the door (you may not be protected in the event of a break-in).
- b) A motorized lock engages automatically (via mechanical or motorized means) and opens electronically (via motorized means).  
Advise your customers to purchase a motorized lock or an electric strike when buying a door.
- c) Use our ekey lock retrofitting solution for existing doors (no wiring in the door).



## ekey home

### Single-point access solutions

#### The right access solution for my private space.

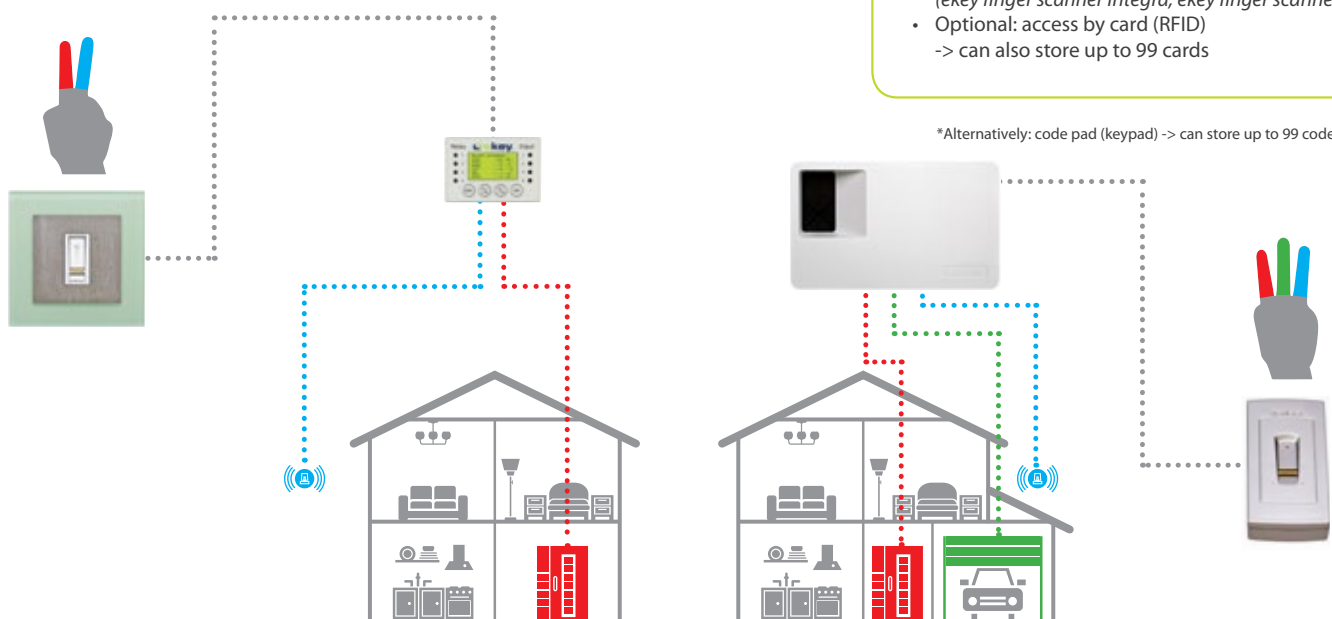
ekey home is the innovative finger scanner set\* for your front door or office door. The key features of the system are its simple installation and intuitive user administration. Finger scanners are available in a variety of models to suit different applications.

#### Short facts:

Control up to 3 functions with just one finger scanner\*.

- Can store up to 99 fingerprints
- Can control from 1 to 3 functions (e.g., door, gate, and alarm system)
- Easy to operate with central user administration directly via the control panel
- Or by using the *ekey home app* (*ekey finger scanner integra*, *ekey finger scanner arte*)
- Optional: access by card (RFID)  
-> can also store up to 99 cards

\*Alternatively: code pad (keypad) -> can store up to 99 codes



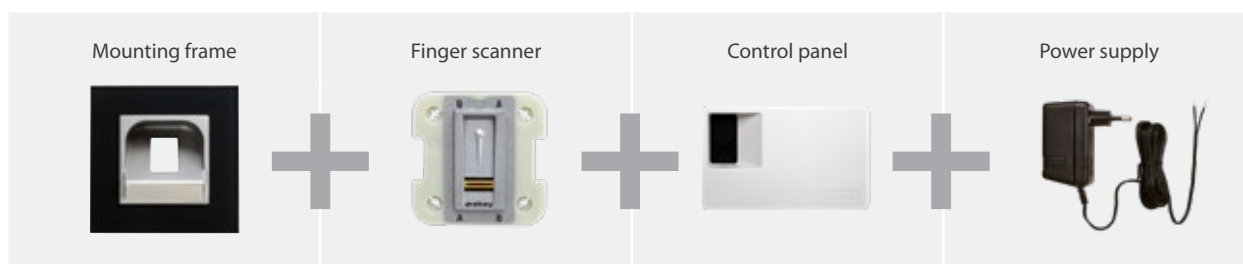
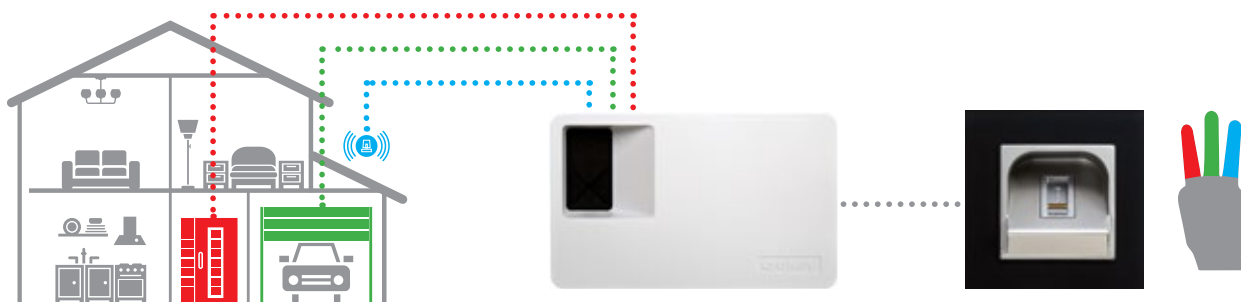


## Example: Single-family house

### Customer requirements:

Keyless access for the whole family. The customer wants to be able to operate the front door, garage door, and alarm system from the finger scanner at the front door with three different fingers.

The index finger will open the front door with relay 1. The middle finger will open the garage door with relay 2 and the ring finger will activate or deactivate the alarm system with relay 3.



## ekey operating concepts

It is very important to us that ekey products are always easy and intuitive to use. With this in mind, we have developed a range of operating concepts to suit all sorts of different requirements and applications.



### ekey home app

The innovative and convenient solution for ekey finger scanner administration. All functions of the ekey finger scanner access control system can be set in an instant via your smartphone or tablet. You can also use the app to unlock your front door. Available for Apple iOS and Google Android.



### ekey classic

The proven, easy-to-use system. All settings and access rights can be administered conveniently via the control panel.



### ekey administrator finger

The economic entry-level solution. Access rights can be stored directly on the finger scanner with defined administrator fingers.





## ekey finger scanner wall-mounted

For wall mounting and easy retrofitting



## Finger scanner



Part no.	Description
101405	ekey home FS WM 2.0, steel-gray
101667	ekey home FS WM 2.0 RFID, steel-gray, incl. 2 ekey RFID cards MIFARE DESFire EV1 <ul style="list-style-type: none"> <li>• FAR: 1:10,000,000/FRR: 1:100</li> <li>• Dimensions W x H x D: 45 x 81.6 x 60.3 mm</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 8-24 VDC</li> <li>• IP code: IP 44</li> <li>• Recommended mounting height: 135 cm</li> <li>• Display: 3 multicolor LEDs</li> <li>• Temperature range: -25 °C to 70 °C</li> <li>• Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device</li> </ul>
101690	ekey RFID card MIFARE DESFire EV1 2k logo, ekey design, ISO 14443 A
101692	ekey RFID card MIFARE DESFire EV1 2k WHI, white, ISO 14443 A
101691	ekey RFID fob MIFARE DESFire EV1 2k BL, black, ISO 14443 A



## Accessories



Part no.	Description
101406	ekey weather shield FS WM 2.0 ST, brushed stainless steel <ul style="list-style-type: none"> <li>• Dimensions W x H x D: 110 x 170 x 95 mm</li> <li>• Recommended mounting height: 135 cm</li> <li>• Scope of delivery: Weather shield, 4 chipboard screws 4x35, 4 screw anchors S5, 3 countersunk head screws M3x16, 3 Torx countersunk head screws M3x6 GU</li> </ul>
101418	ekey cover FS WM 2.0 ST, brushed stainless steel <ul style="list-style-type: none"> <li>• Dimensions W x H x D: 89 x 87 x 103 mm</li> <li>• Recommended mounting height: 100 cm</li> <li>• Scope of delivery: Cover, 4 chipboard screws 4x35, 4 screw anchors S5, 3 countersunk head screws M3x16, 3 Torx countersunk head screws M3x6 GU</li> </ul>



## Control panel

### DIN-rail mounted control panel



Part no.	Description
101162	ekey home CP DRM 1, 1 relay
101312	ekey home CP DRM 2, 2 relays <ul style="list-style-type: none"> <li>• Dimensions W x H x D: 70 x 86 x 54 mm (4 HP)</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 10-24 VDC</li> <li>• Temperature range: -20 °C to 70 °C</li> <li>• IP code: IP 20</li> <li>• Relays:               <ul style="list-style-type: none"> <li>1 potential-free relay (CP DRM 1)</li> <li>2 potential-free relays (CP DRM 2)</li> </ul> </li> <li>• Max. relay voltage, max. relay current: 42 VAC/DC; 2 A</li> <li>• Operation: 4 buttons</li> <li>• RS-485 termination: switchable</li> <li>• Inputs (request-to-exit button):               <ul style="list-style-type: none"> <li>1 potential-free input (CP DRM 1)</li> <li>2 potential-free inputs (CP DRM 2)</li> </ul> </li> <li>• Display: LCD 106 x 56 pixels, 7 lines/21 characters + 2 rows/4 status LEDs</li> <li>• Enroll users, delete individual users, set relay switching times (0-99 s), change security code, adjust LED brightness, reset, test mode, convenient backlit text display, configurable inputs</li> <li>• KNX-compatible</li> </ul>



## Wall-mounted control panel



Part no.	Description
100478	ekey home CP WM 1, 1 relay
100479	ekey home CP WM 3, 3 relays
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 180 x 110 x 41 mm</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 8-12 VDC</li> <li>• Temperature range: -20 °C to 70 °C</li> <li>• Relays:               <ul style="list-style-type: none"> <li>1 potential-free relay (CP WM 1)</li> <li>3 potential-free relays (CP WM 3)</li> </ul> </li> <li>• IP code: IP 20</li> </ul>
	<ul style="list-style-type: none"> <li>• Max. relay voltage, max. relay current: 42 VAC/DC; 2 A</li> <li>• Display: 2-digit seven-segment display, LED</li> <li>• Operation: 4 buttons</li> <li>• RS-485 termination: fixed</li> <li>• Enroll users, delete individual users, set relay switching times (0-99 s), change security code, reset</li> </ul>



## Power supply



Part no.	Description
101700	ekey PS WPS 230 VAC/12 VDC/800 mA, wall power supply
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 52 x 78.5 x 45 mm</li> <li>• Supply voltage: 230 VAC</li> <li>• Output voltage, output current: 12 VDC/800 mA</li> <li>• Cable length: 3.5 m</li> </ul>
100204	ekey PS OM 230 VAC/12 VDC/2 A, power supply outlet-mounted
	<ul style="list-style-type: none"> <li>• Dimensions ØxH: 54x31 mm</li> <li>• Supply voltage: 230 VAC</li> <li>• Output voltage, output current: 12 VDC/2 A</li> <li>• Temperature range: -5 °C to 50 °C</li> </ul>
100205	ekey PS DRM 230 VAC/12 VDC/2 A, power supply for DIN-rail mounting
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 52.5 x 93 x 68.5 mm (3 HP)</li> <li>• Supply voltage: 230 VAC</li> <li>• Output voltage, output current: 12 VDC/2 A</li> <li>• Temperature range: -10 °C to 45 °C</li> </ul>
100891	ekey PS DRM 230 VAC/24 VDC/2 A, power supply for DIN-rail mounting*
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 70 x 93 x 66.5 mm (4 HP)</li> <li>• Supply voltage: 230 VAC</li> <li>• Output voltage, output current: 24 VDC/2 A</li> <li>• Temperature range: -5 °C to 50 °C</li> </ul>

**!** \*Important: Not compatible with ekey home CP WM 1 (100478) and ekey home CP WM 3 (100479).





## Uninterruptible power supply

Recommended  
by us

The uninterruptible power supply (UPS) comprises a switched-mode power supply and a battery. In the event of a power failure, it can be relied upon to supply power to the finger scanner, the control panel, and the motorized lock for several hours.



Part no.	Description
101559	ekey UPS DRM 230 VAC/12 VDC/4 Ah, DIN-rail mounted
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: UPS: 108 x 94 x 95 mm (6 HP) Battery: 157 x 93 x 66.5 mm (9 HP)</li> <li>Supply voltage: 100-240 VAC</li> <li>2 parts: UPS (switched-mode power supply) and battery</li> <li>Output voltage, output current: 12 VDC/5 A</li> </ul>
	<ul style="list-style-type: none"> <li>Temperature range: -10 °C to 40 °C</li> <li>Function display: LED</li> <li>Advantage: Replaces the power supply device; ensures a reliable supply of current to the system for several hours. Suitable for use in conjunction with a motorized lock.</li> </ul>
101593	ekey UPS DRM 230 VAC/24 VDC/4 Ah, DIN-rail mounted*
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: UPS: 108 x 94 x 95 mm (6 HP) Battery: 157 x 93 x 66.5 mm (9 HP)</li> <li>Supply voltage: 100-240 VAC</li> <li>3 parts: UPS (switched-mode power supply) and 2 batteries</li> <li>Output voltage, output current: 24 VDC/3 A</li> </ul>
	<ul style="list-style-type: none"> <li>Temperature range: -10 °C to 40 °C</li> <li>Function display: LED</li> <li>Advantage: Replaces the power supply device; ensures a reliable supply of current to the system for several hours. Suitable for use in conjunction with a motorized lock.</li> </ul>

**!** \*Important: Not compatible with ekey home CP WM 1 (100478) and ekey home CP WM 3 (100479).



## Complete set



Part no.	Description
101409	ekey home set FS WM DRM 1, with DIN-rail mounted control panel, 1 relay
	<p>The complete set includes:</p> <ul style="list-style-type: none"> <li>ekey home FS WM 2.0</li> <li>ekey home CP DRM 1</li> <li>ekey PS DRM 230 VAC/12 VDC/2 A</li> </ul>



Part no.	Description
101407	ekey home set WM 2.0 WM 1, with wall-mounted control panel, 1 relay
101408	ekey home set WM 2.0 WM 3, with wall-mounted control panel, 3 relays
	<p>The complete set includes:</p> <ul style="list-style-type: none"> <li>ekey home FS WM 2.0</li> <li>ekey home CP WM, number of relays according to control panel</li> <li>ekey PS WPS 230 VAC/12 VDC/800 mA</li> </ul>



## Interface

### Interface for connecting the equipment to home automation systems



Part no.	Description
100460	ekey home CV LAN RS-485
	<ul style="list-style-type: none"> <li>RS-485/LAN interface for connection to third-party systems (e.g., KNX) with UDP protocol</li> <li>Scope of delivery: LAN converter, software</li> </ul>

### „ekey home“ protocol

1	0046	4	80004426110003	1	2
Packet type	User ID	Finger ID	Finger scanner serial number	Action	Relay output



Part no.	Description
101719	ekey home CV KNX RS-485
	<ul style="list-style-type: none"> <li>The ekey KNX converter is used to trigger functions in home automation systems based on the KNX home automation bus.</li> <li>Makeup: DIN-rail mounting</li> <li>Dimensions W x H x D: 18 x 98 x 61 mm (1 HP)</li> <li>Supply voltage: 12-24 VDC</li> <li>Mounting type: DIN rail</li> <li>RS-485 cable length: 10 m</li> <li>Number of RS-485 interfaces: 1</li> <li>RS-485 protocol: ekey home</li> <li>12 events (10 freely configurable, 1 „Unknown“, 1 „Security“) in addition to relay contacts on the control panel</li> <li>Own ETS application (ETS 5)</li> <li>Functions: switching, sending values, selecting scenes</li> <li>Assigning an event to a finger</li> </ul>

### Interface for connecting the equipment to alarm systems or other access control systems



Part no.	Description
101582	ekey home CV WIEG RS-485
	<ul style="list-style-type: none"> <li>The ekey Wiegand converter converts the RS-485 protocol used by ekey into a 26-bit Wiegand protocol. The product can be configured with the ekey multi CV USB RS-485 (100433).</li> <li>Scope of delivery: Wiegand converter, software</li> </ul>



**ekey MEDIA CENTER**

You can find all the information  
on our products on our website:  
[www.ekey.net/en/pro-mediacenter](http://www.ekey.net/en/pro-mediacenter)





## ekey finger scanner outlet-mounted

For integration into door stations of well-known manufacturers



## Finger scanner OM I

### For integration into door stations



Part no.	Description
101310	ekey home FS OM I
101671	ekey home FS OM I RFID, incl. 2 ekey RFID cards MIFARE DESFire EV1 <ul style="list-style-type: none"> <li>• FAR: 1:10,000,000/FRR: 1:100</li> <li>• Dimensions W x H x D: 50.4 x 50.4 x 30.1 mm</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 8-24 VDC</li> <li>• Temperature range: -25 °C to 70 °C</li> <li>• Recommended mounting height: 155 cm</li> </ul> <ul style="list-style-type: none"> <li>• Display: 3 multicolor LEDs</li> <li>• Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device, compatible with many build-in modules for door stations, letterboxes, wall mounting sets</li> </ul>
101690	ekey RFID card MIFARE DESFire EV1 2k logo, ekey design, ISO 14443 A
101692	ekey RFID card MIFARE DESFire EV1 2k WHI, white, ISO 14443 A
101691	ekey RFID fob MIFARE DESFire EV1 2k BL, black, ISO 14443 A



### Accessories

Part no.	Description
	<b>Build-in modules for Gira door stations</b>
101380	ekey Modul Gira TX44 AL, aluminum colored
101381	ekey Modul Gira TX44 AN, anthracite
101382	ekey Modul Gira TX44 PW, pure white
	<b>Build-in modules for Siedle door stations</b>
101376	ekey Modul Siedle Vario DG, micaceous dark gray
101378	ekey Modul Siedle Vario W, white
101379	ekey Modul Siedle Vario SM, silver metallic
101858	ekey Modul Siedle Vario AG, anthracite gray
	<b>Build-in modules for Elvox door stations</b>
101552	ekey Modul Elvox 8000 series GR, gray
	<b>Build-in modules for Bticino door stations</b>
101533	ekey Modul bticino Sfera AME, Allmetal
101534	ekey Modul bticino Sfera AWH, Allwhite
101535	ekey Modul bticino Sfera AST, Allstreet
101536	ekey Modul bticino Sfera ROB, Robur
	<b>Build-in modules for Comelit door stations</b>
101473	ekey Modul Comelit ikall BL, black, incl. ekey home FS OM I
101629	ekey Modul Comelit metal, metallic, incl. ekey home FS OM I

**!** Important: Availability of build-in modules varies from country to country!

**!** Attention: RFID function is not possible behind stainless steel or aluminum!

Well-known manufacturers build ekey finger scanners into their door stations and letterboxes:



**!** Upgrading a door station? Build-in module (parts shown in red) is available from ekey or the door station manufacturer.



## Finger scanner OM E

### For integration into Siedle Vario flush mounted door stations



Part no.	Description
101148	ekey home FS OM E
101673	ekey home FS OM E RFID, incl. 2 ekey RFID cards MIFARE DESFire EV1
	<ul style="list-style-type: none"> <li>• FAR: 1:10,000,000/FRR: 1:100</li> <li>• Dimensions W x H x D: 50.4 x 50.4 x 30.1 mm</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 8-24 VDC</li> <li>• Temperature range: -25 °C to 70 °C</li> <li>• Recommended mounting height: 155 cm</li> </ul>
	<ul style="list-style-type: none"> <li>• Display: 3 multicolor LEDs</li> <li>• Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device, compatible with many switch ranges with 50 x 50 mm internal dimension</li> <li>• Incl. bezel, mounting bracket, spacers, sealing flange</li> </ul>
101690	ekey RFID card MIFARE DESFire EV1 2k logo, ekey design, ISO 14443 A
101692	ekey RFID card MIFARE DESFire EV1 2k WHI, white, ISO 14443 A
101691	ekey RFID fob MIFARE DESFire EV1 2k BL, black, ISO 14443 A



### Accessories



Part no.	Description
	<b>Build-in modules for Siedle Vario flush mounted door station*</b>
101892	ekey ModulS Siedle Vario DG, micaceous dark gray
101893	ekey ModulS Siedle Vario W, white
101894	ekey ModulS Siedle Vario SM, silver metallic
101895	ekey ModulS Siedle Vario AG, anthracite gray
101897	ekey ModulS Siedle Vario DG LED, micaceous dark gray with alarm LEDs
101898	ekey ModulS Siedle Vario W LED, white with alarm LEDs
101899	ekey ModulS Siedle Vario SM LED, silver metallic with alarm LEDs
101900	ekey ModulS Siedle Vario AG LED, anthracite gray with alarm LEDs

**!** **Attention:** This accessory is only available in combination with ekey FS OM E (101148 and 101673)!

**!** **\*Important:** Not compatible with the Siedle Vario surface mounted door station.



## Control panel

### DIN-rail mounted control panel



Part no.	Description
101162	ekey home CP DRM 1, 1 relay
101312	ekey home CP DRM 2, 2 relays
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 70 x 86 x 54 mm (4 HP)</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 10-24 VDC</li> <li>• Temperature range: -20 °C to 70 °C</li> <li>• IP code: IP 20</li> <li>• Relays:               <ul style="list-style-type: none"> <li>1 potential-free relay (CP DRM 1)</li> <li>2 potential-free relays (CP DRM 2)</li> </ul> </li> <li>• Max. relay voltage, max. relay current: 42 VAC/DC; 2 A</li> <li>• Operation: 4 buttons</li> <li>• RS-485 termination: switchable</li> </ul>
	<ul style="list-style-type: none"> <li>• Inputs (request-to-exit button):               <ul style="list-style-type: none"> <li>1 potential-free input (CP DRM 1)</li> <li>2 potential-free inputs (CP DRM 2)</li> </ul> </li> <li>• Display: LCD 106 x 56 pixels, 7 lines/21 characters + 2 rows/4 status LEDs</li> <li>• Enroll users, delete individual users, set relay switching times (0-99 s), change security code, adjust LED brightness, reset, test mode, convenient backlit text display, configurable inputs</li> <li>• KNX-compatible</li> </ul>

### Wall-mounted control panel



Part no.	Description
100478	ekey home CP WM 1, 1 relay
100479	ekey home CP WM 3, 3 relays
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 180 x 110 x 41 mm</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 8-12 VDC</li> <li>• Temperature range: -20 °C to 70 °C</li> <li>• Relays:               <ul style="list-style-type: none"> <li>1 potential-free relay (CP WM 1)</li> <li>3 potential-free relays (CP WM 3)</li> </ul> </li> <li>• IP code: IP 20</li> </ul>
	<ul style="list-style-type: none"> <li>• Max. relay voltage, max. relay current: 42 VAC/DC; 2 A</li> <li>• Display: 2-digit seven-segment display, LED</li> <li>• Operation: 4 buttons</li> <li>• RS-485 termination: fixed</li> <li>• Enroll users, delete individual users, set relay switching times (0-99 s), change security code, reset</li> </ul>





## Power supply



Part no.	Description
101700	ekey PS WPS 230 VAC/12 VDC/800 mA, wall power supply
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 52 x 78.5 x 45 mm</li> <li>• Supply voltage: 230 VAC</li> <li>• Output voltage, output current: 12 VDC/800 mA</li> <li>• Cable length: 3.5 m</li> </ul>
100204	ekey PS OM 230 VAC/12 VDC/2 A, power supply outlet-mounted
	<ul style="list-style-type: none"> <li>• Dimensions Ø x H: 54 x 31 mm</li> <li>• Supply voltage: 230 VAC</li> <li>• Output voltage, output current: 12 VDC/2 A</li> <li>• Temperature range: -5 °C to 50 °C</li> </ul>
100205	ekey PS DRM 230 VAC/12 VDC/2 A, power supply for DIN-rail mounting
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 52.5 x 93 x 68.5 mm (3 HP)</li> <li>• Supply voltage: 230 VAC</li> <li>• Output voltage, output current: 12 VDC/2 A</li> <li>• Temperature range: -10 °C to 45 °C</li> </ul>
100891	ekey PS DRM 230 VAC/24 VDC/2 A, power supply for DIN-rail mounting*
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 70 x 93 x 66.5 mm (4 HP)</li> <li>• Supply voltage: 230 VAC</li> <li>• Output voltage, output current: 24 VDC/2 A</li> <li>• Temperature range: -5 °C to 50 °C</li> </ul>

**!** \*Important: Not compatible with ekey home CP WM 1 (100478) and ekey home CP WM 3 (100479).



## Uninterruptible power supply

Recommended  
by us

The uninterruptible power supply (UPS) comprises a switched-mode power supply and a battery. In the event of a power failure, it can be relied upon to supply power to the finger scanner, the control panel, and the motorized lock for several hours.



Part no.	Description
101559	ekey UPS DRM 230 VAC/12 VDC/4 Ah, DIN-rail mounted
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: UPS: 108 x 94 x 95 mm (6 HP) Battery: 157 x 93 x 66.5 mm (9 HP)</li> <li>• Supply voltage: 100-240 VAC</li> <li>• 2 parts: UPS (switched-mode power supply) and battery</li> <li>• Output voltage, output current: 12 VDC/5 A</li> <li>• Temperature range: -10 °C to 40 °C</li> <li>• Function display: LED</li> <li>• Advantage: Replaces the power supply device; ensures a reliable supply of current to the system for several hours. Suitable for use in conjunction with a motorized lock.</li> </ul>
101593	ekey UPS DRM 230 VAC/24 VDC/4 Ah, DIN-rail mounted*
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: UPS: 108 x 94 x 95 mm (6 HP) Battery: 157 x 93 x 66.5 mm (9 HP)</li> <li>• Supply voltage: 100-240 VAC</li> <li>• 3 parts: UPS (switched-mode power supply) and 2 batteries</li> <li>• Output voltage, output current: 24 VDC/3 A</li> <li>• Temperature range: -10 °C to 40 °C</li> <li>• Function display: LED</li> <li>• Advantage: Replaces the power supply device; ensures a reliable supply of current to the system for several hours. Suitable for use in conjunction with a motorized lock.</li> </ul>

**!** \*Important: Not compatible with ekey home CP WM 1 (100478) and ekey home CP WM 3 (100479).



## Complete set



Part no.	Description
101426	ekey home set FS OM I DRM 1, with DIN-rail mounted control panel, 1 relay
101660	ekey home set FS OM I DRM 2, with DIN-rail mounted control panel, 2 relays
The complete set includes: <ul style="list-style-type: none"> <li>• ekey home FS OM I</li> <li>• ekey home CP DRM, number of relays according to control panel</li> </ul>	

**! Attention:** The scope of delivery for door stations often includes a power supply, which can be used for finger scanners and code pads too. Check the voltage and current needed to control the consumers (door strike, motorized lock).



## Interface

### Interface for connecting the equipment to home automation systems



Part no.	Description
100460	ekey home CV LAN RS-485
<ul style="list-style-type: none"> <li>• RS-485/LAN interface for connection to third-party systems (e.g., KNX) with UDP protocol</li> <li>• Scope of delivery: LAN converter, software</li> </ul>	

### „ekey home“ protocol

1	0046	4	80004426110003	1	2
Packet type	User ID	Finger ID	Finger scanner serial number	Action	Relay output



Part no.	Description
101719	ekey home CV KNX RS-485
<ul style="list-style-type: none"> <li>• The ekey KNX converter is used to trigger functions in home automation systems based on the KNX home automation bus.</li> <li>• Makeup: DIN-rail mounting</li> <li>• Dimensions W x H x D: 18 x 98 x 61 mm (1 HP)</li> <li>• Supply voltage: 12-24 VDC</li> <li>• Mounting type: DIN rail</li> <li>• RS-485 cable length: 10 m</li> <li>• Number of RS-485 interfaces: 1</li> <li>• RS-485 protocol: ekey home</li> <li>• 12 events (10 freely configurable, 1 „Unknown“, 1 „Security“) in addition to relay contacts on the control panel</li> <li>• Own ETS application (ETS 5)</li> <li>• Functions: switching, sending values, selecting scenes</li> <li>• Assigning an event to a finger</li> </ul>	

## Interface for connecting the equipment to alarm systems or other access control systems



<i>Part no.</i>	<i>Description</i>
101582	<b>ekey home CV WIEG RS-485</b> <ul style="list-style-type: none"><li>The ekey Wiegand converter converts the RS-485 protocol used by ekey into a 26-bit Wiegand protocol. The product can be configured with the ekey multi CV USB RS-485 (100433).</li><li>Scope of delivery: Wiegand converter, software</li></ul>









## ekey finger scanner outlet-mounted E

For integration into switch frames of well-known manufacturers



## Finger scanner

### For integration into switch frames



Part no.	Description
101148	ekey home FS OM E
101673	ekey home FS OM E RFID, incl. 2 ekey RFID cards MIFARE DESFire EV1 <ul style="list-style-type: none"> <li>• FAR: 1:10,000,000/FRR: 1:100</li> <li>• Dimensions W x H x D: 50.4 x 50.4 x 30.1 mm</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 8-24 VDC</li> <li>• Temperature range: -25 °C to 70 °C</li> <li>• Recommended mounting height: 155 cm</li> </ul>
	<ul style="list-style-type: none"> <li>• Display: 3 multicolor LEDs</li> <li>• Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device, compatible with many switch ranges with 50 x 50 mm internal dimension</li> <li>• Incl. bezel, mounting bracket, spacers, sealing flange</li> </ul>
101690	ekey RFID card MIFARE DESFire EV1 2k logo, ekey design, ISO 14443 A
101692	ekey RFID card MIFARE DESFire EV1 2k WHI, white, ISO 14443 A
101691	ekey RFID fob MIFARE DESFire EV1 2k BL, black, ISO 14443 A



### Accessory - bezel

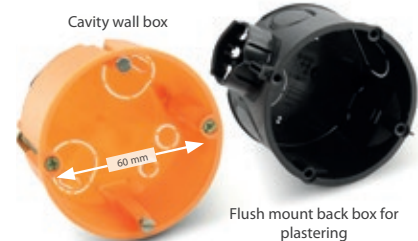


Part no.	Description
101166	ekey bezel FS OM PW 50x50, plastic pure white
101167	ekey bezel FS OM AL 50x50, plastic aluminum colored
101168	ekey bezel FS OM AN 50x50, plastic anthracite



! Parts shown in red must be purchased from the switch manufacturer!

! The ekey FS OM E has been designed and built for flush mount back boxes in accordance with DIN 49073.



## Accessory - frame

Part no.	Description
101372	ekey frame FS OM ST, brushed stainless steel*
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: 85 x 85 x 7.2 mm</li> <li>Cover provides the device with IP 44 protection for use outdoors on exterior rendering with max. 1.5 mm masonry graining around the electrical outlet.</li> </ul>
101702	ekey frame FS OM GL WHI, glass white
101703	ekey frame FS OM GL BL, glass black
101704	ekey frame FS OM GL MI, glass mint
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: 100 x 100 x 7.5 mm</li> <li>Cover provides the device with IP 44 protection for use outdoors on exterior rendering with max. 1.5 mm masonry graining around the electrical outlet.</li> </ul>
101705	ekey frame FS OM503 GL WHI, glass white
101706	ekey frame FS OM503 GL BL, glass black
101707	ekey frame FS OM503 GL MI, glass mint
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: 125 x 100 x 7.5 mm</li> <li>Cover provides the device with IP 44 protection for use outdoors on exterior rendering with max. 1.5 mm masonry graining around the electrical outlet type 503.</li> </ul>

**!** \*Attention: RFID function is not possible with ekey frame FS OM ST (101372)!

## Accessories - mounting frame

Part no.	Description
101779	ekey mounting frame FS OM GL WHI, glass white
101780	ekey mounting frame FS OM GL BL, glass black
101781	ekey mounting frame FS OM GL MI, glass mint
101785	ekey mounting frame FS OM GL MI LED, glass mint with alarm LEDs
101786	ekey mounting frame FS OM GL BL LED, glass black with alarm LEDs
101787	ekey mounting frame FS OM GL WHI LED, glass white with alarm LEDs
	<ul style="list-style-type: none"> <li>Dimensions W x H x D:               <ul style="list-style-type: none"> <li>Mounting frame: 105 x 105 x 54 mm</li> <li>Flush mount back box: 72 x 72 x 57 mm</li> <li>Material: glass, plastic</li> </ul> </li> <li>Recommended mounting height: 100 cm</li> <li>Scope of delivery: Mounting frame and flush mount back box. A standard flush mount back box is not suitable.</li> </ul>
101838	ekey cavity wall box WHI, for mounting frame FS OM
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: 83 x 83 x 65 mm</li> <li>Material: Plastic</li> </ul>
101896	ekey integrationkit FS OM E
101901	ekey integrationkit FS OM E LED, with alarm LEDs
	<p>The ekey integrationkit FS OM E is an accessory for the ekey finger scanner FS OM E and can be built into a wide variety of products (letterboxes, door stations, etc.). It is only ever mounted by the user, opening up a number of new possible applications.</p> <ul style="list-style-type: none"> <li>Suitable for RFID</li> <li>Recommended mounting height: 100 cm</li> <li>Scope of delivery: mounting bracket for FS OM E, adhesive tape as a mounting aid*</li> </ul>

**!** \*Notice: The adhesive tape is a mounting aid and has not been tested by ekey for all applications. The installer must always check the appropriate way to fix the ekey integrationkit FS OM E for each particular application.



## Control panel

### DIN-rail mounted control panel



Part no.	Description
101162	ekey home CP DRM 1, 1 relay
101312	ekey home CP DRM 2, 2 relays
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 70 x 86 x 54 mm (4 HP)</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 10-24 VDC</li> <li>• Temperature range: -20 °C to 70 °C</li> <li>• IP code: IP 20</li> <li>• Relays:               <ul style="list-style-type: none"> <li>1 potential-free relay (CP DRM 1)</li> <li>2 potential-free relays (CP DRM 2)</li> </ul> </li> <li>• Max. relay voltage, max. relay current: 42 VAC/DC; 2 A</li> <li>• Operation: 4 buttons</li> <li>• RS-485 termination: switchable</li> </ul>
	<ul style="list-style-type: none"> <li>• Inputs (request-to-exit button):               <ul style="list-style-type: none"> <li>1 potential-free input (CP DRM 1)</li> <li>2 potential-free inputs (CP DRM 2)</li> </ul> </li> <li>• Display: LCD 106 x 56 pixels, 7 lines/21 characters + 2 rows/4 status LEDs</li> <li>• Enroll users, delete individual users, set relay switching times (0-99 s), change security code, adjust LED brightness, reset, test mode, convenient backlit text display, configurable inputs</li> <li>• KNX-compatible</li> </ul>

### Wall-mounted control panel



Part no.	Description
100478	ekey home CP WM 1, 1 relay
100479	ekey home CP WM 3, 3 relays
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 180 x 110 x 41 mm</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 8-12 VDC</li> <li>• Temperature range: -20 °C to 70 °C</li> <li>• Relays:               <ul style="list-style-type: none"> <li>1 potential-free relay (CP WM 1)</li> <li>3 potential-free relays (CP WM 3)</li> </ul> </li> <li>• IP code: IP 20</li> </ul>
	<ul style="list-style-type: none"> <li>• Max. relay voltage, max. relay current: 42 VAC/DC; 2 A</li> <li>• Display: 2-digit seven-segment display, LED</li> <li>• Operation: 4 buttons</li> <li>• RS-485 termination: fixed</li> <li>• Enroll users, delete individual users, set relay switching times (0-99 s), change security code, reset</li> </ul>





## Power supply



Part no.	Description
101700	ekey PS WPS 230 VAC/12 VDC/800 mA, wall power supply
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: 52 x 78.5 x 45 mm</li> <li>Supply voltage: 230 VAC</li> <li>Output voltage, output current: 12 VDC/800 mA</li> <li>Cable length: 3.5 m</li> </ul>
100204	ekey PS OM 230 VAC/12 VDC/2 A, power supply outlet-mounted
	<ul style="list-style-type: none"> <li>Dimensions Ø x H: 54 x 31 mm</li> <li>Supply voltage: 230 VAC</li> <li>Output voltage, output current: 12 VDC/2 A</li> <li>Temperature range: -5 °C to 50 °C</li> </ul>
100205	ekey PS DRM 230 VAC/12 VDC/2 A, power supply for DIN-rail mounting
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: 52.5 x 93 x 68.5 mm (3 HP)</li> <li>Supply voltage: 230 VAC</li> <li>Output voltage, output current: 12 VDC/2 A</li> <li>Temperature range: -10 °C to 45 °C</li> </ul>
100891	ekey PS DRM 230 VAC/24 VDC/2 A, power supply for DIN-rail mounting*
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: 70 x 93 x 66.5 mm (4 HP)</li> <li>Supply voltage: 230 VAC</li> <li>Output voltage, output current: 24 VDC/2 A</li> <li>Temperature range: -5 °C to 50 °C</li> </ul>

**!** \*Important: Not compatible with ekey home CP WM 1 (100478) and ekey home CP WM 3 (100479).



## Uninterruptible power supply

Recommended  
by us

The uninterruptible power supply (UPS) comprises a switched-mode power supply and a battery. In the event of a power failure, it can be relied upon to supply power to the finger scanner, the control panel, and the motorized lock for several hours.



Part no.	Description
101559	ekey UPS DRM 230 VAC/12 VDC/4 Ah, DIN-rail mounted
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: UPS: 108 x 94 x 95 mm (6 HP) Battery: 157 x 93 x 66.5 mm (9 HP)</li> <li>Supply voltage: 100-240 VAC</li> <li>2 parts: UPS (switched-mode power supply) and battery</li> <li>Output voltage, output current: 12 VDC/5 A</li> <li>Temperature range: -10 °C to 40 °C</li> <li>Function display: LED</li> <li>Advantage: Replaces the power supply device; ensures a reliable supply of current to the system for several hours. Suitable for use in conjunction with a motorized lock.</li> </ul>
101593	ekey UPS DRM 230 VAC/24 VDC/4 Ah, DIN-rail mounted*
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: UPS: 108 x 94 x 95 mm (6 HP) Battery: 157 x 93 x 66.5 mm (9 HP)</li> <li>Supply voltage: 100-240 VAC</li> <li>3 parts: UPS (switched-mode power supply) and 2 batteries</li> <li>Output voltage, output current: 24 VDC/3 A</li> <li>Temperature range: -10 °C to 40 °C</li> <li>Function display: LED</li> <li>Advantage: Replaces the power supply device; ensures a reliable supply of current to the system for several hours. Suitable for use in conjunction with a motorized lock.</li> </ul>

**!** \*Important: Not compatible with ekey home CP WM 1 (100478) and ekey home CP WM 3 (100479).



## Complete set



Part no.	Description
101165	ekey home set OM E DRM 1, with DIN-rail mounted control panel, 1 relay
The complete set includes: <ul style="list-style-type: none"> <li>• ekey home FS OM E</li> <li>• ekey bezel FS OM PW</li> <li>• ekey home CP DRM 1</li> <li>• ekey PS DRM 230 VAC/12 VDC/2 A</li> </ul>	



## Interface

### Interface for connecting the equipment to home automation systems



Part no.	Description
100460	ekey home CV LAN RS-485
<ul style="list-style-type: none"> <li>• RS-485/LAN interface for connection to third-party systems (e.g., KNX) with UDP protocol</li> <li>• Scope of delivery: LAN converter, software</li> </ul>	

### „ekey home“ protocol

1	0046	4	80004426110003	1	2
Packet type	User ID	Finger ID	Finger scanner serial number	Action	Relay output



Part no.	Description
101719	ekey home CV KNX RS-485
<ul style="list-style-type: none"> <li>• The ekey KNX converter is used to trigger functions in home automation systems based on the KNX home automation bus.</li> <li>• Makeup: DIN-rail mounting</li> <li>• Dimensions W x H x D: 18 x 98 x 61 mm (1 HP)</li> <li>• Supply voltage: 12-24 VDC</li> <li>• Mounting type: DIN rail</li> <li>• RS-485 cable length: 10 m</li> <li>• Number of RS-485 interfaces: 1</li> <li>• RS-485 protocol: ekey home</li> <li>• 12 events (10 freely configurable, 1 „Unknown“, 1 „Security“) in addition to relay contacts on the control panel</li> <li>• Own ETS application (ETS 5)</li> <li>• Functions: switching, sending values, selecting scenes</li> <li>• Assigning an event to a finger</li> </ul>	

### Interface for connecting the equipment to alarm systems or other access control systems



Part no.	Description
101582	ekey home CV WIEG RS-485
<ul style="list-style-type: none"> <li>• The ekey Wiegand converter converts the RS-485 protocol used by ekey into a 26-bit Wiegand protocol. The product can be configured with the ekey multi CV USB RS-485 (100433).</li> <li>• Scope of delivery: Wiegand converter, software</li> </ul>	



## ekey finger scanner **integra**

For wall mounting, cavity wall mounting, and flush-mounting installation

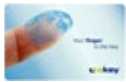




## Finger scanner



Part no.	Description
101794	ekey home FS IN 2.0
101795	ekey home FS IN 2.0 Bluetooth
101797	ekey home FS IN 2.0 RFID, incl. 2 ekey RFID cards MIFARE DESFire EV1
101796	ekey home FS IN 2.0 Bluetooth RFID, incl. 2 ekey RFID cards MIFARE DESFire EV1
	<ul style="list-style-type: none"> <li>• FAR: 1:10,000,000/FRR: 1:100</li> <li>• Dimensions W x H x D: Housing: 43.6 x 89 x 17.3 mm with design element: 45.5 x 91.5 x 17.3 mm</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 10-24 VDC</li> <li>• IP code: IP 54</li> <li>• Temperature range: -25 °C to 70 °C</li> <li>• Display: 3 multicolor LEDs</li> <li>• Recommended mounting height: 155 cm</li> <li>• Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device</li> <li>• Incl. 8 m connection cable</li> <li>• Design element not contained within scope of delivery</li> </ul>
101690	ekey RFID card MIFARE DESFire EV1 2k logo, ekey design, ISO 14443 A
101692	ekey RFID card MIFARE DESFire EV1 2k WHI, white, ISO 14443 A
101691	ekey RFID fob MIFARE DESFire EV1 2k BL, black, ISO 14443 A



## Accessory - design element



Part no.	Description
	Design element FS IN
101254	ekey design element FS IN ST, stainless steel
101305	ekey design element FS IN BL, black
101304	ekey design element FS IN WHI, white
101303	ekey design element FS IN GO, gold
	Design element FS IN RFID
101688	ekey design element FS IN RFID ST, stainless steel
101904	ekey design element FS IN RFID BL, black
101933	ekey design element FS IN RFID WHI, white

### SPECIAL COLORS ON REQUEST!

You can find more information on our website:  
[www.ekey.net/en/pro-special\\_colors\\_integra](http://www.ekey.net/en/pro-special_colors_integra)



## Accessory - mounting frame



Part no.	Description
101716	ekey mounting frame FS IN GL AN, glass anthracite
101717	ekey mounting frame FS IN GL WHI, glass white
101801	ekey mounting frame FS IN GL AN LED, glass anthracite with alarm LEDs
101802	ekey mounting frame FS IN GL WHI LED, glass white with alarm LEDs
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 53.5 x 127 x 24 mm</li> <li>• Material: Stainless steel, glass</li> <li>• Recommended mounting height: 155 cm</li> </ul>



## Accessory - mounting frame with bell module



Part no.	Description
101803	ekey mounting frame FS IN BeM GL WHI, glass white
101804	ekey mounting frame FS IN BeM GL AN, glass anthracite
101807	ekey mounting frame FS IN BeM GL WHI LED, glass white with alarm LEDs
101808	ekey mounting frame FS IN BeM GL AN LED, glass anthracite with alarm LEDs
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 53.5 x 171 x 24 mm</li> <li>• Material: Stainless steel, glass</li> <li>• Recommended mounting height: 155 cm</li> <li>• 2 buttons to trigger a bell electronically</li> </ul>

## Accessory - wall mounting set



Part no.	Description
101302	ekey wall mounting set FS IN ST, stainless steel
101301	ekey wall mounting set FS IN ST LED, stainless steel with alarm LEDs
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D:</li> <li>• Front plate: 96 x 142 x 2 mm</li> <li>• Flush-mounting housing: 60 x 122 x 36 mm</li> </ul>
101147	ekey weather shield FS IN ST, stainless steel
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D:</li> <li>• Front plate: 126 x 142 x 65 mm</li> <li>• Flush-mounting housing: 60 x 122 x 36 mm</li> </ul>
101300	ekey flush mount back box FS IN, for flush-mounting installation, 0.5 mm sheet
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 42 x 87 x 25 mm</li> </ul>

**!** Notice: Only available in conjunction with ekey design elements.



## Control panel

### DIN-rail mounted control panel



Part no.	Description
101162	ekey home CP DRM 1, 1 relay
101312	ekey home CP DRM 2, 2 relays
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 70 x 86 x 54 mm (4 HP)</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 10-24 VDC</li> <li>• Temperature range: -20 °C to 70 °C</li> <li>• IP code: IP 20</li> <li>• Relays: <ul style="list-style-type: none"> <li>1 potential-free relay (CP DRM 1)</li> <li>2 potential-free relays (CP DRM 2)</li> </ul> </li> <li>• Max. relay voltage, max. relay current: 42 VAC/DC; 2 A</li> <li>• Operation: 4 buttons</li> <li>• RS-485 termination: switchable</li> <li>• Inputs (request-to-exit button): <ul style="list-style-type: none"> <li>1 potential-free input (CP DRM 1)</li> <li>2 potential-free inputs (CP DRM 2)</li> </ul> </li> <li>• Display: LCD 106 x 56 pixels, 7 lines/21 characters + 2 rows/4 status LEDs</li> <li>• Enroll users, delete individual users, set relay switching times (0-99 s), change security code, adjust LED brightness, reset, test mode, convenient backlit text display, configurable inputs</li> <li>• KNX-compatible</li> </ul>

## Wall-mounted control panel



Part no.	Description
100478	ekey home CP WM 1, 1 relay
100479	ekey home CP WM 3, 3 relays
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 180 x 110 x 41 mm</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 8-12 VDC</li> <li>• Temperature range: -20 °C to 70 °C</li> <li>• Relays:               <ul style="list-style-type: none"> <li>1 potential-free relay (CP WM 1)</li> <li>3 potential-free relays (CP WM 3)</li> </ul> </li> <li>• IP code: IP 20</li> </ul>
	<ul style="list-style-type: none"> <li>• Max. relay voltage, max. relay current: 42 VAC/DC; 2 A</li> <li>• Display: 2-digit seven-segment display, LED</li> <li>• Operation: 4 buttons</li> <li>• RS-485 termination: fixed</li> <li>• Enroll users, delete individual users, set relay switching times (0-99 s), change security code, reset</li> </ul>

## Control panel mini



Part no.	Description
101626	ekey home CP mini 1, 1 relay
101770	ekey home CP mini 2, 2 relays
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 25 x 60 x 42 mm (1 HP)</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 8-24 VDC</li> <li>• Temperature range: -20 °C to 70 °C</li> <li>• IP code: IP 20</li> <li>• Normally open contact (NO/C)</li> </ul>
	<ul style="list-style-type: none"> <li>• Max. relay voltage, max. relay current: 42 VAC/DC; 2 A</li> <li>• Relays:               <ul style="list-style-type: none"> <li>1 potential-free relay (CP mini 1)</li> <li>2 potential-free relays (CP mini 2)</li> </ul> </li> <li>• Reset button on the control panel</li> </ul>



## Power supply



Part no.	Description
101700	ekey PS WPS 230 VAC/12 VDC/800 mA, wall power supply
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 52 x 78.5 x 45 mm</li> <li>• Supply voltage: 230 VAC</li> </ul>
	<ul style="list-style-type: none"> <li>• Output voltage, output current: 12 VDC/800 mA</li> <li>• Cable length: 3.5 m</li> </ul>
100204	ekey PS OM 230 VAC/12 VDC/2 A, power supply outlet-mounted
	<ul style="list-style-type: none"> <li>• Dimensions Ø x H: 54 x 31 mm</li> <li>• Supply voltage: 230 VAC</li> </ul>
	<ul style="list-style-type: none"> <li>• Output voltage, output current: 12 VDC/2 A</li> <li>• Temperature range: -5 °C to 50 °C</li> </ul>
100205	ekey PS DRM 230 VAC/12 VDC/2 A, power supply for DIN-rail mounting
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 52.5 x 93 x 68.5 mm (3 HP)</li> <li>• Supply voltage: 230 VAC</li> </ul>
	<ul style="list-style-type: none"> <li>• Output voltage, output current: 12 VDC/2 A</li> <li>• Temperature range: -10 °C to 45 °C</li> </ul>
100891	ekey PS DRM 230 VAC/24 VDC/2 A, power supply for DIN-rail mounting*
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 70 x 93 x 66.5 mm (4 HP)</li> <li>• Supply voltage: 230 VAC</li> </ul>
	<ul style="list-style-type: none"> <li>• Output voltage, output current: 24 VDC/2 A</li> <li>• Temperature range: -5 °C to 50 °C</li> </ul>

**!** \*Important: Not compatible with ekey home CP WM 1 (100478) and ekey home CP WM 3 (100479).



## Uninterruptible power supply

Recommended  
by us

The uninterruptible power supply (UPS) comprises a switched-mode power supply and a battery. In the event of a power failure, it can be relied upon to supply power to the finger scanner, the control panel, and the motorized lock for several hours.



Part no.	Description
101559	ekey UPS DRM 230 VAC/12 VDC/4 Ah, DIN-rail mounted
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: UPS: 108 x 94 x 95 mm (6 HP) Battery: 157 x 93 x 66.5 mm (9 HP)</li> <li>Supply voltage: 100-240 VAC</li> <li>2 parts: UPS (switched-mode power supply) and battery</li> <li>Output voltage, output current: 12 VDC/5 A</li> </ul>
	<ul style="list-style-type: none"> <li>Temperature range: -10 °C to 40 °C</li> <li>Function display: LED</li> <li>Advantage: Replaces the power supply device; ensures a reliable supply of current to the system for several hours. Suitable for use in conjunction with a motorized lock.</li> </ul>
101593	ekey UPS DRM 230 VAC/24 VDC/4 Ah, DIN-rail mounted*
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: UPS: 108 x 94 x 95 mm (6 HP) Battery: 157 x 93 x 66.5 mm (9 HP)</li> <li>Supply voltage: 100-240 VAC</li> <li>3 parts: UPS (switched-mode power supply) and 2 batteries</li> <li>Output voltage, output current: 24 VDC/3 A</li> </ul>
	<ul style="list-style-type: none"> <li>Temperature range: -10 °C to 40 °C</li> <li>Function display: LED</li> <li>Advantage: Replaces the power supply device; ensures a reliable supply of current to the system for several hours. Suitable for use in conjunction with a motorized lock.</li> </ul>

**!** \*Important: Not compatible with ekey home CP WM 1 (100478) and ekey home CP WM 3 (100479).



## Complete set



Part no.	Description
101313	ekey home set IN 2.0 DRM 1, with DIN-rail mounted control panel, 1 relay
	<p>The complete set includes:</p> <ul style="list-style-type: none"> <li>ekey home FS IN 2.0</li> <li>ekey design element FS IN ST</li> <li>ekey home CP DRM 1</li> <li>ekey PS DRM 230 VAC/12 VDC/2 A</li> </ul>



Part no.	Description
101583	ekey home set IN 2.0 BT mini 1, with control panel mini, 1 relay
	<p>The complete set includes:</p> <ul style="list-style-type: none"> <li>ekey home FS IN 2.0 BT</li> <li>ekey design element FS IN ST</li> <li>ekey home CP mini 1</li> <li>ekey PS DRM 230 VAC/12 VDC/2 A</li> </ul>



Part no.	Description
101287	ekey home set IN 2.0 WM 1, with wall-mounted control panel, 1 relay
	<p>The complete set includes:</p> <ul style="list-style-type: none"> <li>• ekey home FS IN 2.0</li> <li>• ekey design element FS IN ST</li> <li>• ekey home CP WM 1</li> <li>• ekey PS WPS 230 VAC/12 VDC/800 mA</li> </ul>

**All-in-One complete sets**  
**Open your door with a finger, card, or app!**



Part no.	Description
101863	ekey home set IN 2.0 BT RFID mini 1 GL AN, with control panel mini, 1 relay
	<p>The complete set includes:</p> <ul style="list-style-type: none"> <li>• ekey home FS IN 2.0 BT RFID</li> <li>• ekey mounting frame FS IN GL AN</li> <li>• ekey home CP mini 1</li> <li>• ekey PS WPS 230 VAC/12 VDC/800 mA</li> </ul>



Part no.	Description
101864	ekey home set IN 2.0 BT RFID mini 1 GL WHI, with control panel mini, 1 relay
	<p>The complete set includes:</p> <ul style="list-style-type: none"> <li>• ekey home FS IN 2.0 BT RFID</li> <li>• ekey mounting frame FS IN GL WHI</li> <li>• ekey home CP mini 1</li> <li>• ekey PS WPS 230 VAC/12 VDC/800 mA</li> </ul>



Part no.	Description
101865	ekey home set IN 2.0 BT RFID mini 1 BeM GL AN, with control panel mini, 1 relay
	<p>The complete set includes:</p> <ul style="list-style-type: none"> <li>• ekey home FS IN 2.0 BT RFID</li> <li>• ekey mounting frame FS IN BeM GL AN</li> <li>• ekey home CP mini 1</li> <li>• ekey PS WPS 230 VAC/12 VDC/800 mA</li> </ul>



Part no.	Description
101866	ekey home set IN 2.0 BT RFID mini 1 BeM GL WHI, with control panel mini, 1 relay
	<p>The complete set includes:</p> <ul style="list-style-type: none"> <li>• ekey home FS IN 2.0 BT RFID</li> <li>• ekey mounting frame FS IN BeM GL WHI</li> <li>• ekey home CP mini 1</li> <li>• ekey PS WPS 230 VAC/12 VDC/800 mA</li> </ul>





## Interface

### Interface for connecting the equipment to home automation systems



Part no.	Description
100460	ekey home CV LAN RS-485
	<ul style="list-style-type: none"> <li>RS-485/LAN interface for connection to third-party systems (e.g., KNX) with UDP protocol</li> <li>Scope of delivery: LAN converter, software</li> </ul>

### „ekey home“ protocol

1	0046	4	80004426110003	1	2
Packet type	User ID	Finger ID	Finger scanner serial number	Action	Relay output



Part no.	Description
101719	ekey home CV KNX RS-485
	<ul style="list-style-type: none"> <li>The ekey KNX converter is used to trigger functions in home automation systems based on the KNX home automation bus.</li> <li>Makeup: DIN-rail mounting</li> <li>Dimensions W x H x D: 18 x 98 x 61 mm (1 HP)</li> <li>Supply voltage: 12-24 VDC</li> <li>Mounting type: DIN rail</li> <li>RS-485 cable length: 10 m</li> <li>Number of RS-485 interfaces: 1</li> <li>RS-485 protocol: ekey home</li> <li>12 events (10 freely configurable, 1 „Unknown“, 1 „Security“) in addition to relay contacts on the control panel</li> <li>Own ETS application (ETS 5)</li> <li>Functions: switching, sending values, selecting scenes</li> <li>Assigning an event to a finger</li> </ul>

### Interface for connecting the equipment to alarm systems or other access control systems



Part no.	Description
101582	ekey home CV WIEG RS-485
	<ul style="list-style-type: none"> <li>The ekey Wiegand converter converts the RS-485 protocol used by ekey into a 26-bit Wiegand protocol. The product can be configured with the ekey multi CV USB RS-485 (100433).</li> <li>Scope of delivery: Wiegand converter, software</li> </ul>

# ekey home app



**GET CONNECTED!**



## Simple, secure, convenient.

### ACCESS

- Open doors via app (smartphone/tablet device)
- Assign access authorization with a user code
- Provide temporary access (while on vacation, for example)

### USER ADMINISTRATION

- Easy to create, manage, and delete users
- Enable or disable users at the touch of a button
- Assign authorizations for defined access
- Store fingers via the app
- Easy administration of up to 99 fingerprints
- Administration of up to 99 RFID cards\*

### SECURITY

- Administrator and user level
- 4 to 6-digit app security code
- Enhanced security thanks to 6-digit coupling code
- Administrator is able to change and administer security codes
- Deactivate the finger scanner's Bluetooth function

### USEFUL TOOLS

- Adjustable LED brightness on the finger scanner
- Relay switching times can be set individually
- Reset the system to default settings

The *ekey home app* is only compatible with the *ekey home – single-point access solutions* system!

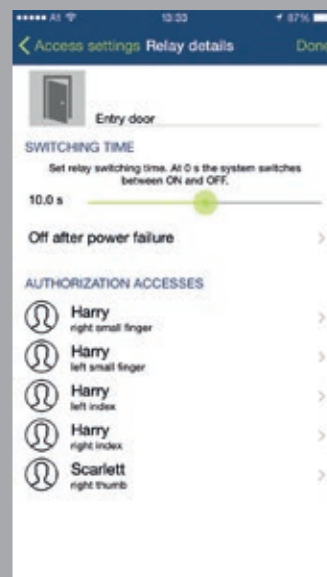
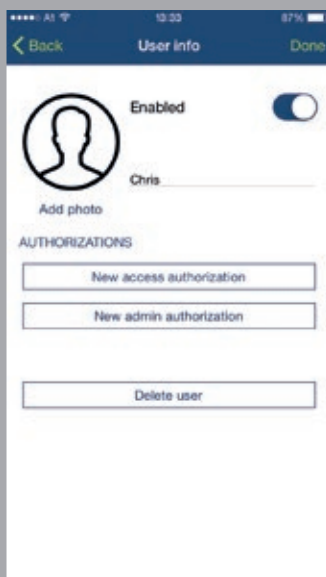
\*Only in the case of *ekey finger scanner integra BT RFID*

FREE for ANDROID and iOS >>>

Available languages:  
DE | EN | IT | FR | ES | CS | PL | RU



## ekey home app – fool-proof menu navigation:





## Code pad ekey keypad integra

The alternative to the finger scanner





## Code pad



Part no.	Description
101809	<b>ekey home KP IN 2.0</b>
	<ul style="list-style-type: none"> <li>Keypad: capacitive touchpad</li> <li>Dimensions W x H x D: 51.7 x 97.1 x 21.4 mm</li> <li>Power consumption: approx. 1 W</li> <li>Supply voltage: 8-24 VDC</li> <li>IP code: IP 54</li> <li>Temperature range: -25 °C to 70 °C</li> <li>Display: 3 multicolor LEDs</li> </ul>
	<ul style="list-style-type: none"> <li>Up to 99 different 4- to 8-digit codes can be programmed simultaneously, tamper-proof, data is retained in the event of a power failure, optical and acoustic signals, modern backlighting (configurable)</li> <li>Incl. 8 m connection cable</li> <li>Design element not contained within scope of delivery</li> </ul>

### Accessory - design element



Part no.	Description
101677	ekey design element KP IN GL STG, glass stainless steel gray
101678	ekey design element KP IN GL WHI, glass white
101679	ekey design element KP IN GL AN, glass anthracite

### Accessory - mounting frame



Part no.	Description
101714	ekey mounting frame KP IN GL AN, glass anthracite
101715	ekey mounting frame KP IN GL WHI, glass white
101799	ekey mounting frame KP IN GL AN LED, glass anthracite with alarm LEDs
101800	ekey mounting frame KP IN GL WHI LED, glass white with alarm LEDs
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: 53.5 x 127 x 24 mm</li> <li>Material: Stainless steel, glass</li> </ul>

### Accessory - mounting frame with bell module



Part no.	Description
101782	ekey mounting frame KP IN BeM GL AN, glass anthracite
101783	ekey mounting frame KP IN BeM GL WHI, glass white
101805	ekey mounting frame KP IN BeM GL WHI LED, glass white with alarm LEDs
101806	ekey mounting frame KP IN BeM GL AN LED, glass anthracite with alarm LEDs
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: 53.5 x 171 x 24 mm</li> <li>Material: stainless steel, glass</li> <li>2 buttons to trigger a bell electronically</li> </ul>



## Accessory - wall mounting set



Part no.	Description	
101302	ekey wall mounting set FS IN ST, stainless steel	
101301	ekey wall mounting set FS IN ST LED, stainless steel with alarm LEDs	
	<ul style="list-style-type: none"> <li>Dimensions W x H x D:</li> </ul>	<ul style="list-style-type: none"> <li>Front plate: 96 x 142 x 2 mm</li> <li>Flush-mounting housing: 60 x 122 x 36 mm</li> </ul>
101147	ekey weather shield FS IN ST, stainless steel	
	<ul style="list-style-type: none"> <li>Dimensions W x H x D:</li> </ul>	<ul style="list-style-type: none"> <li>Front plate: 126 x 142 x 65 mm</li> <li>Flush-mounting housing: 60 x 122 x 36 mm</li> </ul>
101300	ekey flush mount back box FS IN, for flush-mounting installation, 0.5 mm sheet	
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: 42 x 87 x 25 mm</li> </ul>	

**!** Notice: Only available in conjunction with ekey design elements.



## Control panel

### DIN-rail mounted control panel



Part no.	Description	
101162	ekey home CP DRM 1, 1 relay	
101312	ekey home CP DRM 2, 2 relays	
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: 70 x 86 x 54 mm (4 HP)</li> <li>Power consumption: approx. 1 W</li> <li>Supply voltage: 10-24 VDC</li> <li>Temperature range: -20 °C to 70 °C</li> <li>IP code: IP 20</li> <li>Relays: <ul style="list-style-type: none"> <li>1 potential-free relay (CP DRM 1)</li> <li>2 potential-free relays (CP DRM 2)</li> </ul> </li> <li>Max. relay voltage, max. relay current: 42 VAC/DC; 2 A</li> <li>Operation: 4 buttons</li> <li>RS-485 termination: switchable</li> </ul>	<ul style="list-style-type: none"> <li>Inputs (request-to-exit button): <ul style="list-style-type: none"> <li>1 potential-free input (CP DRM 1)</li> <li>2 potential-free inputs (CP DRM 2)</li> </ul> </li> <li>Display: LCD 106 x 56 pixels, 7 lines/21 characters + 2 rows/4 status LEDs</li> <li>Enroll users, delete individual users, set relay switching times (0-99 s), change security code, adjust LED brightness, reset, test mode, convenient backlit text display, configurable inputs</li> <li>KNX-compatible</li> </ul>

### Wall-mounted control panel



Part no.	Description	
100478	ekey home CP WM 1, 1 relay	
100479	ekey home CP WM 3, 3 relays	
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: 180 x 110 x 41 mm</li> <li>Power consumption: approx. 1 W</li> <li>Supply voltage: 8-12 VDC</li> <li>Temperature range: -20 °C to 70 °C</li> <li>Relays: <ul style="list-style-type: none"> <li>1 potential-free relay (CP WM 1)</li> <li>3 potential-free relays (CP WM 3)</li> </ul> </li> <li>IP code: IP 20</li> </ul>	<ul style="list-style-type: none"> <li>Max. relay voltage, max. relay current: 42 VAC/DC; 2 A</li> <li>Display: 2-digit seven-segment display, LED</li> <li>Operation: 4 buttons</li> <li>RS-485 termination: fixed</li> <li>Enroll users, delete individual users, set relay switching times (0-99 s), change security code, reset</li> </ul>

## Control panel mini



Part no.	Description
101626	ekey home CP mini 1, 1 relay
101770	ekey home CP mini 2, 2 relays
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 25 x 60 x 42 mm (1 HP)</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 8-24 VDC</li> <li>• Temperature range: -20 °C to 70 °C</li> <li>• IP code: IP 20</li> <li>• Normally open contact (NO/C)</li> </ul>
	<ul style="list-style-type: none"> <li>• Max. relay voltage, max. relay current: 42 VAC/DC; 2 A</li> <li>• Relays:               <ul style="list-style-type: none"> <li>1 potential-free relay (CP mini 1)</li> <li>2 potential-free relays (CP mini 2)</li> </ul> </li> <li>• Reset button on the control panel</li> </ul>



## Power supply



Part no.	Description
101700	ekey PS WPS 230 VAC/12 VDC/800 mA, wall power supply
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 52 x 78.5 x 45 mm</li> <li>• Supply voltage: 230 VAC</li> <li>• Output voltage, output current: 12 VDC/800 mA</li> <li>• Cable length: 3.5 m</li> </ul>
100204	ekey PS OM 230 VAC/12 VDC/2 A, power supply outlet-mounted
	<ul style="list-style-type: none"> <li>• Dimensions Ø x H: 54 x 31 mm</li> <li>• Supply voltage: 230 VAC</li> <li>• Output voltage, output current: 12 VDC/2 A</li> <li>• Temperature range: -5 °C to 50 °C</li> </ul>
100205	ekey PS DRM 230 VAC/12 VDC/2 A, power supply for DIN-rail mounting
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 52.5 x 93 x 68.5 mm (3 HP)</li> <li>• Supply voltage: 230 VAC</li> <li>• Output voltage, output current: 12 VDC/2 A</li> <li>• Temperature range: -10 °C to 45 °C</li> </ul>
100891	ekey PS DRM 230 VAC/24 VDC/2 A, power supply for DIN-rail mounting*
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 70 x 93 x 66.5 mm (4 HP)</li> <li>• Supply voltage: 230 VAC</li> <li>• Output voltage, output current: 24 VDC/2 A</li> <li>• Temperature range: -5 °C to 50 °C</li> </ul>



**!** \*Important: Not compatible with ekey home CP WM 1 (100478) and ekey home CP WM 3 (100479).



## Uninterruptible power supply

Recommended  
by us

The uninterruptible power supply (UPS) comprises a switched-mode power supply and a battery. In the event of a power failure, it can be relied upon to supply power to the finger scanner, the control panel, and the motorized lock for several hours.

Part no.	Description
101559	ekey UPS DRM 230 VAC/12 VDC/4 Ah, DIN-rail mounted
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: UPS: 108 x 94 x 95 mm (6 HP) Battery: 157 x 93 x 66.5 mm (9 HP)</li> <li>Supply voltage: 100-240 VAC</li> <li>2 parts: UPS (switched-mode power supply) and battery</li> <li>Output voltage, output current: 12 VDC/5 A</li> </ul>
	<ul style="list-style-type: none"> <li>Temperature range: -10 °C to 40 °C</li> <li>Function display: LED</li> <li>Advantage: Replaces the power supply device; ensures a reliable supply of current to the system for several hours. Suitable for use in conjunction with a motorized lock.</li> </ul>
101593	ekey UPS DRM 230 VAC/24 VDC/4 Ah, DIN-rail mounted*
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: UPS: 108 x 94 x 95 mm (6 HP) Battery: 157 x 93 x 66.5 mm (9 HP)</li> <li>Supply voltage: 100-240 VAC</li> <li>3 parts: UPS (switched-mode power supply) and 2 batteries</li> <li>Output voltage, output current: 24 VDC/3 A</li> </ul>
	<ul style="list-style-type: none"> <li>Temperature range: -10 °C to 40 °C</li> <li>Function display: LED</li> <li>Advantage: Replaces the power supply device; ensures a reliable supply of current to the system for several hours. Suitable for use in conjunction with a motorized lock.</li> </ul>

**!** \*Important: Not compatible with ekey home CP WM 1 (100478) and ekey home CP WM 3 (100479).



Part no.	Description
101584	ekey home set KP IN 2.0 mini 1, with control panel mini, 1 relay
	<p>The complete set includes:</p> <ul style="list-style-type: none"> <li>ekey home KP IN 2.0</li> <li>ekey design element KP IN GL AN</li> <li>ekey home CP mini 1</li> <li>ekey PS DRM 230 VAC/12 VDC/2 A</li> </ul>



**ekey MEDIA CENTER**

You can find all the information  
on our products on our website:  
[www.ekey.net/en/pro-mediacenter](http://www.ekey.net/en/pro-mediacenter)





## ekey multi Multi-point access solutions

### The ideal access solution for private homes and companies.

ekey multi is a revolutionary access control system which can be used for the administration of up to 4 finger scanners\* on a small network. What makes ekey multi really special is that it is programmed directly on an allocated control panel with no need for a PC.

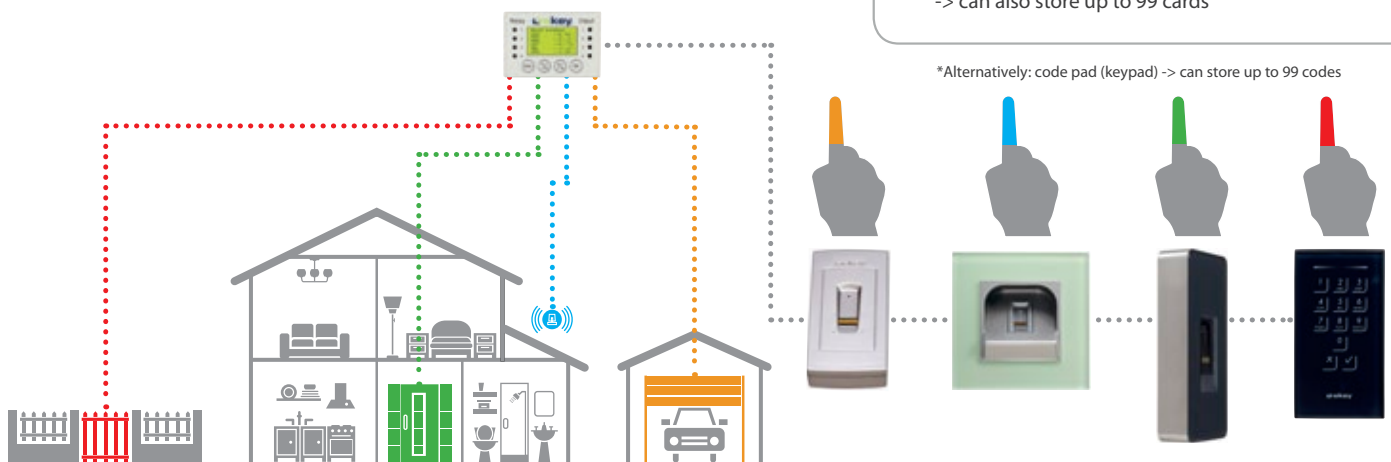
Individual access rights (including time slots) are easy to assign to specific users (e.g., family members and guests, or employees and cleaning staff) via the control panel. Each user is able to trigger several actions.

### Short facts:

4 finger scanners\* are managed by a single control panel.

- Can store up to 99 fingerprints
- Supports up to 4 finger scanners
- Can control up to 4 functions per FS (e.g., door, gate, and alarm system)
- Individually programmable time slots
- Access log for every finger scanner
- Easy to operate with central user administration directly via the control panel
- User permissions can be assigned on a personalized basis (based on location and time)
- Vacation or permanent program
- Optional: access by card (RFID)  
-> can also store up to 99 cards

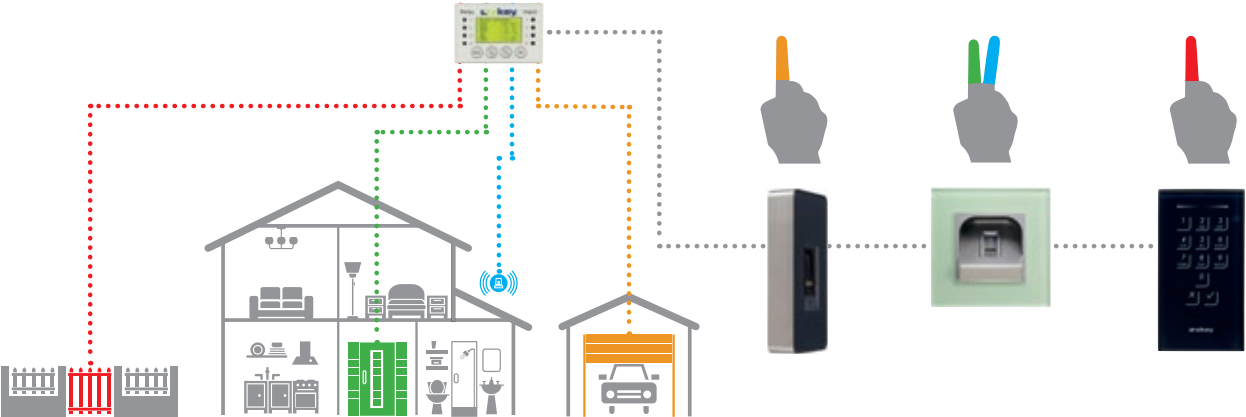
\*Alternatively: code pad (keypad) -> can store up to 99 codes



 **Example: Single-family house**

**Customer requirements:**

The customer wants to use ekey multi and finger scanners or a code pad to control three entrance points and the alarm system. There should be only one way to activate or deactivate the alarm system: from the finger scanner at the front door with a separate finger. Martha and Frank must be able to access all areas. Lucas is not allowed to open the garage door.



	Frank	Martha	Lucas	
Front door				
Alarm system				
Garage door				
Garden gate				





## Planning steps

### How to plan the right way:



1

Select a suitable finger scanner model and function (RFID) or a code pad:

- a) Finger scanner wall-mounted (WM)
- b) Finger scanner outlet-mounted E (OM E) or outlet-mounted I (OM I)
- c) Finger scanner integra (IN)
- d) Code pad keypad integra (KP IN)

Select suitable accessories, if required: weather shield, wall mounting set, mounting frame, etc.



2

Select the control panel ekey multi!



3

Select a suitable power supply:

- a) Convenient DIN-rail mounted power supply inside the control cabinet (PS DRM)
- b) Outlet-mounted power supply (PS OM)
- c) Uninterruptible power supply (UPS)

**Attention:** The scope of delivery for door stations often includes a power supply, which can be used for finger scanners and code pads too. Check the voltage and current needed to control the consumers (door strike, motorized lock).



4

Select a suitable interface (converter), if required:

- a) For connection to home automation systems (ekey converter CV LAN and CV KNX)
- b) For connection to alarm systems or other access control systems (ekey converter CV WIEG)



For door strikes and motorized locks, please note:

- a) Although door strikes are relatively inexpensive, they do not lock the door (you may not be protected in the event of a break-in).
- b) A motorized lock engages automatically (via mechanical or motorized means) and opens electronically (via motorized means). Advise your customers to purchase a motorized lock or an electric strike when buying a door.
- c) Use our ekey lock retrofitting solution for existing doors (no wiring in the door).





## Step 1: Select 1-4 suitable finger scanners/ code pads.



### Finger scanner wall-mounted



Part no.	Description
101405	ekey home FS WM 2.0, steel-gray
101667	ekey home FS WM 2.0 RFID, steel-gray, incl. 2 ekey RFID cards MIFARE DESFire EV1 <ul style="list-style-type: none"> <li>• FAR: 1:10,000,000/FRR: 1:100</li> <li>• Dimensions W x H x D: 45 x 81.6 x 60.3 mm</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 8-24 VDC</li> <li>• IP code: IP 44</li> <li>• Recommended mounting height: 135 cm</li> <li>• Display: 3 multicolor LEDs</li> <li>• Temperature range: -25 °C to 70 °C</li> <li>• Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device</li> </ul>
101690	ekey RFID card MIFARE DESFire EV1 2k logo, ekey design, ISO 14443 A
101692	ekey RFID card MIFARE DESFire EV1 2k WHI, white, ISO 14443 A
101691	ekey RFID fob MIFARE DESFire EV1 2k BL, black, ISO 14443 A





## Accessories



Part no.	Description
101406	ekey weather shield FS WM 2.0 ST, brushed stainless steel
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 110 x 170 x 95 mm</li> <li>• Recommended mounting height: 135 cm</li> </ul>
	<ul style="list-style-type: none"> <li>• Scope of delivery: Weather shield, 4 chipboard screws 4x35, 4 screw anchors S5, 3 countersunk head screws M3x16, 3 Torx countersunk head screws M3x6 GU</li> </ul>
101418	ekey cover FS WM 2.0 ST, brushed stainless steel
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 89 x 87 x 103 mm</li> <li>• Recommended mounting height: 100 cm</li> </ul>
	<ul style="list-style-type: none"> <li>• Scope of delivery: Cover, 4 chipboard screws 4x35, 4 screw anchors S5, 3 countersunk head screws M3x16, 3 Torx countersunk head screws M3x6 GU</li> </ul>



## Finger scanner outlet-mounted

### Outlet-mounted I for integration into door stations



Part no.	Description
101310	ekey home FS OM I
101671	ekey home FS OM I RFID, incl. 2 ekey RFID cards MIFARE DESFire EV1
	<ul style="list-style-type: none"> <li>• FAR: 1:10,000,000/FRR: 1:100</li> <li>• Dimensions W x H x D: 50.4 x 50.4 x 30.1 mm</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 8-24 VDC</li> <li>• Temperature range: -25 °C to 70 °C</li> <li>• Recommended mounting height: 155 cm</li> </ul>
	<ul style="list-style-type: none"> <li>• Display: 3 multicolor LEDs</li> <li>• Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device, compatible with many build-in modules for door stations, letterboxes, wall mounting sets</li> </ul>
101690	ekey RFID card MIFARE DESFire EV1 2k logo, ekey design, ISO 14443 A
101692	ekey RFID card MIFARE DESFire EV1 2k WHI, white, ISO 14443 A
101691	ekey RFID fob MIFARE DESFire EV1 2k BL, black, ISO 14443 A



## Accessories



Part no.	Description
	<b>Build-in modules for Gira door stations</b>
101380	ekey Modul Gira TX44 AL, aluminum colored
101381	ekey Modul Gira TX44 AN, anthracite
101382	ekey Modul Gira TX44 PW, pure white
	<b>Build-in modules for Siedle door stations</b>
101376	ekey Modul Siedle Vario DG, micaceous dark gray
101378	ekey Modul Siedle Vario W, white
101379	ekey Modul Siedle Vario SM, silver metallic
101858	ekey Modul Siedle Vario AG, anthracite gray
	<b>Build-in modules for Elvox door stations</b>
101552	ekey Modul Elvox 8000 series GR, gray



**!** Important: Availability of build-in modules varies from country to country!

**!** Attention: RFID function is not possible behind stainless steel or aluminum!

## Accessories

Part no.	Description
<b>Build-in modules for Bticino door stations</b>	
101533	ekey Modul bticino Sfera AME, Allmetal
101534	ekey Modul bticino Sfera AWH, Allwhite
101535	ekey Modul bticino Sfera AST, Allstreet
101536	ekey Modul bticino Sfera ROB, Robur
<b>Build-in modules for Comelit door stations</b>	
101473	ekey Modul Comelit ikall BL, black, incl. ekey home FS OM I
101629	ekey Modul Comelit metal, metallic, incl. ekey home FS OM I

! **Important:** Availability of build-in modules varies from country to country!

! **Attention:** RFID function is not possible behind stainless steel or aluminum!

Well-known manufacturers build ekey finger scanners into their door stations and letterboxes:



! **Upgrading a door station? Build-in module (parts shown in red) is available from ekey or the door station manufacturer.**

## Outlet-mounted E for integration into Siedle Vario flush mounted door stations

Part no.	Description
101148	ekey home FS OM E
101673	ekey home FS OM E RFID, incl. 2 ekey RFID cards MIFARE DESFire EV1
	<ul style="list-style-type: none"> <li>• FAR: 1:10,000,000/FRR: 1:100</li> <li>• Dimensions W x H x D: 50.4 x 50.4 x 30.1 mm</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 8-24 VDC</li> <li>• Temperature range: -25 °C to 70 °C</li> <li>• Display: 3 multicolor LEDs</li> <li>• Recommended mounting height: 155 cm</li> </ul>
	<ul style="list-style-type: none"> <li>• Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device, compatible with many switch ranges with 50 x 50 mm internal dimension</li> <li>• Incl. bezel, mounting bracket, spacers, sealing flange</li> </ul>
101690	ekey RFID card MIFARE DESFire EV1 2k logo, ekey design, ISO 14443 A
101692	ekey RFID card MIFARE DESFire EV1 2k WHI, white, ISO 14443 A
101691	ekey RFID fob MIFARE DESFire EV1 2k BL, black, ISO 14443 A

## Accessories



Part no.	Description
	<b>Build-in modules for Siedle Vario flush mounted door station*</b>
101892	ekey ModulS Siedle Vario DG, micaceous dark gray
101893	ekey ModulS Siedle Vario W, white
101894	ekey ModulS Siedle Vario SM, silver metallic
101895	ekey ModulS Siedle Vario AG, anthracite gray
101897	ekey ModulS Siedle Vario DG LED, micaceous dark gray with alarm LEDs
101898	ekey ModulS Siedle Vario W LED, white with alarm LEDs
101899	ekey ModulS Siedle Vario SM LED, silver metallic with alarm LEDs
101900	ekey ModulS Siedle Vario AG LED, anthracite gray with alarm LEDs

! **Attention:** This accessory is only available in combination with ekey FS OM E (101148 and 101673)!

! **\*Important:** Not compatible with the Siedle Vario surface mounted door station.



## Finger scanner outlet-mounted E

### For integration into switch frames

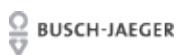


Part no.	Description
101148	ekey home FS OM E
101673	ekey home FS OM E RFID, incl. 2 ekey RFID cards MIFARE DESFire EV1
	<ul style="list-style-type: none"> <li>• FAR: 1:10,000,000/FRR: 1:100</li> <li>• Dimensions W x H x D: 50.4 x 50.4 x 30.1 mm</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 8-24 VDC</li> <li>• Temperature range: -25 °C to 70 °C</li> <li>• Display: 3 multicolor LEDs</li> <li>• Recommended mounting height: 155 cm</li> </ul>
	<ul style="list-style-type: none"> <li>• Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device, compatible with many switch ranges with 50 x 50 mm internal dimension</li> <li>• Incl. bezel, mounting bracket, spacers, sealing flange</li> </ul>
101690	ekey RFID card MIFARE DESFire EV1 2k logo, ekey design, ISO 14443 A
101692	ekey RFID card MIFARE DESFire EV1 2k WHI, white, ISO 14443 A
101691	ekey RFID fob MIFARE DESFire EV1 2k BL, black, ISO 14443 A



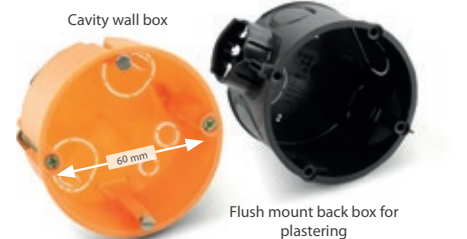
### Accessory - bezel

Part no.	Description
101166	ekey bezel FS OM PW 50x50, plastic pure white
101167	ekey bezel FS OM AL 50x50, plastic aluminum colored
101168	ekey bezel FS OM AN 50x50, plastic anthracite



! Parts shown in red must be purchased from the switch manufacturer!

! The ekey FS OM E has been designed and built for flush mount back boxes in accordance with DIN 49073.



## Accessory - frame

Part no.	Description
101372	ekey frame FS OM ST, brushed stainless steel*
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: 85 x 85 x 7.2 mm</li> <li>Cover provides the device with IP 44 protection for use outdoors on exterior rendering with max. 1.5 mm masonry graining around the electrical outlet.</li> </ul>
101702	ekey frame FS OM GL WHI, glass white
101703	ekey frame FS OM GL BL, glass black
101704	ekey frame FS OM GL MI, glass mint
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: 100 x 100 x 7.5 mm</li> <li>Cover provides the device with IP 44 protection for use outdoors on exterior rendering with max. 1.5 mm masonry graining around the electrical outlet.</li> </ul>
101705	ekey frame FS OM503 GL WHI, glass white
101706	ekey frame FS OM503 GL BL, glass black
101707	ekey frame FS OM503 GL MI, glass mint
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: 125 x 100 x 7.5 mm</li> <li>Cover provides the device with IP 44 protection for use outdoors on exterior rendering with max. 1.5 mm masonry graining around the electrical outlet type 503.</li> </ul>

**!** \*Attention: RFID function is not possible with ekey frame FS OM ST (101372)!

## Accessories - mounting frame

Part no.	Description
101779	ekey mounting frame FS OM GL WHI, glass white
101780	ekey mounting frame FS OM GL BL, glass black
101781	ekey mounting frame FS OM GL MI, glass mint
101785	ekey mounting frame FS OM GL MI LED, glass mint with alarm LEDs
101786	ekey mounting frame FS OM GL BL LED, glass black with alarm LEDs
101787	ekey mounting frame FS OM GL WHI LED, glass white with alarm LEDs
	<ul style="list-style-type: none"> <li>Dimensions W x H x D:               <ul style="list-style-type: none"> <li>Mounting frame: 105 x 105 x 54 mm</li> <li>Flush mount back box: 72 x 72 x 57 mm</li> <li>Material: glass, plastic</li> </ul> </li> <li>Recommended mounting height: 100 cm</li> <li>Scope of delivery: Mounting frame and flush mount back box. A standard flush mount back box is not suitable.</li> </ul>
101838	ekey cavity wall box WHI, for mounting frame FS OM
	<ul style="list-style-type: none"> <li>Dimensions W x H x D: 83 x 83 x 65 mm</li> <li>Material: Plastic</li> </ul>
101896	ekey integrationkit FS OM E
101901	ekey integrationkit FS OM E LED, with alarm LEDs
	<p>The ekey integrationkit FS OM E is an accessory for the ekey finger scanner FS OM E and can be built into a wide variety of products (letterboxes, door stations, etc.). It is only ever mounted by the user, opening up a number of new possible applications.</p> <ul style="list-style-type: none"> <li>Suitable for RFID</li> <li>Recommended mounting height: 100 cm</li> <li>Scope of delivery: mounting bracket for FS OM E, adhesive tape as a mounting aid*</li> </ul>

**!** \*Notice: The adhesive tape is a mounting aid and has not been tested by ekey for all applications. The installer must always check the appropriate way to fix the ekey integrationkit FS OM E for each particular application.





## Finger scanner integra



Part no.	Description
101794	ekey home FS IN 2.0
101797	ekey home FS IN 2.0 RFID, incl. 2 ekey RFID cards MIFARE DESFire EV1
	<ul style="list-style-type: none"> <li>• FAR: 1:10,000,000/FRR: 1:100</li> <li>• Dimensions W x H x D: Housing: 43.6 x 89 x 17.3 mm with design element: 45.5 x 91.5 x 17.3 mm</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 10-24 VDC</li> <li>• IP code: IP 54</li> <li>• Temperature range: -25 °C to 70 °C</li> <li>• Display: 3 multicolor LEDs</li> <li>• Recommended mounting height: 155 cm</li> <li>• Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device</li> <li>• Incl. 8 m connection cable</li> <li>• Design element not contained within scope of delivery</li> </ul>
101690	ekey RFID card MIFARE DESFire EV1 2k logo, ekey design, ISO 14443 A
101692	ekey RFID card MIFARE DESFire EV1 2k WHI, white, ISO 14443 A
101691	ekey RFID fob MIFARE DESFire EV1 2k BL, black, ISO 14443 A



### Accessory - design element



Part no.	Description
	Design element FS IN
101254	ekey design element FS IN ST, stainless steel
101305	ekey design element FS IN BL, black
101304	ekey design element FS IN WHI, white
101303	ekey design element FS IN GO, gold
	Design element FS IN RFID
101688	ekey design element FS IN RFID ST, stainless steel
101904	ekey design element FS IN RFID BL, black
101933	ekey design element FS IN RFID WHI, white

#### SPECIAL COLORS ON REQUEST!

You can find more information on our website:  
[www.ekey.net/en/pro-special\\_colors\\_integra](http://www.ekey.net/en/pro-special_colors_integra)



### Accessory - mounting frame



Part no.	Description
101716	ekey mounting frame FS IN GL AN, glass anthracite
101717	ekey mounting frame FS IN GL WHI, glass white
101801	ekey mounting frame FS IN GL AN LED, glass anthracite with alarm LEDs
101802	ekey mounting frame FS IN GL WHI LED, glass white with alarm LEDs
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 53.5 x 127 x 24 mm</li> <li>• Material: Stainless steel, glass</li> <li>• Recommended mounting height: 155 cm</li> </ul>

## Accessory - mounting frame with bell module



Part no.	Description
101803	ekey mounting frame FS IN BeM GL WHI, glass white
101804	ekey mounting frame FS IN BeM GL AN, glass anthracite
101807	ekey mounting frame FS IN BeM GL WHI LED, glass white with alarm LEDs
101808	ekey mounting frame FS IN BeM GL AN LED, glass anthracite with alarm LEDs
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 53.5 x 171 x 24 mm</li> <li>• Material: Stainless steel, glass</li> <li>• Recommended mounting height: 155 cm</li> <li>• 2 buttons to trigger a bell electronically</li> </ul>

## Accessory - wall mounting set



Part no.	Description
101302	ekey wall mounting set FS IN ST, stainless steel
101301	ekey wall mounting set FS IN ST LED, stainless steel with alarm LEDs
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D:</li> <li>• Front plate: 96 x 142 x 2 mm</li> <li>• Flush-mounting housing: 60 x 122 x 36 mm</li> </ul>
101147	ekey weather shield FS IN ST, stainless steel
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D:</li> <li>• Front plate: 126 x 142 x 65 mm</li> <li>• Flush-mounting housing: 60 x 122 x 36 mm</li> </ul>
101300	ekey flush mount back box FS IN, for flush-mounting installation, 0.5 mm sheet
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 42 x 87 x 25 mm</li> </ul>

**!** Notice: Only available in conjunction with ekey design elements.



## Code pad keypad integra



Part no.	Description
101809	ekey home KP IN 2.0
	<ul style="list-style-type: none"> <li>• Keypad: capacitive touchpad</li> <li>• Dimensions W x H x D: 51.7 x 97.1 x 21.4 mm</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 8-24 VDC</li> <li>• IP code: IP 54</li> <li>• Temperature range: -25 °C to 70 °C</li> <li>• Display: 3 multicolor LEDs</li> <li>• Up to 99 different 4- to 8-digit codes can be programmed simultaneously, tamper-proof, data is retained in the event of a power failure, optical and acoustic signals, modern backlighting (configurable)</li> <li>• Incl. 8 m connection cable</li> <li>• Design element not contained within scope of delivery</li> </ul>

## Accessory - design element



Part no.	Description
101677	ekey design element KP IN GL STG, glass stainless steel gray
101678	ekey design element KP IN GL WHI, glass white
101679	ekey design element KP IN GL AN, glass anthracite

## Accessory - mounting frame



Part no.	Description
101714	ekey mounting frame KP IN GL AN, glass anthracite
101715	ekey mounting frame KP IN GL WHI, glass white
101799	ekey mounting frame KP IN GL AN LED, glass anthracite with alarm LEDs
101800	ekey mounting frame KP IN GL WHI LED, glass white with alarm LEDs
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 53.5 x 127 x 24 mm</li> <li>• Material: Stainless steel, glass</li> </ul>

## Accessory - mounting frame with bell module



Part no.	Description
101782	ekey mounting frame KP IN BeM GL AN, glass anthracite
101783	ekey mounting frame KP IN BeM GL WHI, glass white
101805	ekey mounting frame KP IN BeM GL WHI LED, glass white with alarm LEDs
101806	ekey mounting frame KP IN BeM GL AN LED, glass anthracite with alarm LEDs
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 53.5 x 171 x 24 mm</li> <li>• Material: stainless steel, glass</li> <li>• 2 buttons to trigger a bell electronically</li> </ul>

## Accessory - wall mounting set



Part no.	Description
101302	ekey wall mounting set FS IN ST, stainless steel
101301	ekey wall mounting set FS IN ST LED, stainless steel with alarm LEDs
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D:</li> <li>• Front plate: 96 x 142 x 2 mm</li> <li>• Flush-mounting housing: 60 x 122 x 36 mm</li> </ul>
101147	ekey weather shield FS IN ST, stainless steel
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D:</li> <li>• Front plate: 126 x 142 x 65 mm</li> <li>• Flush-mounting housing: 60 x 122 x 36 mm</li> </ul>
101300	ekey flush mount back box FS IN, for flush-mounting installation, 0.5 mm sheet
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 42 x 87 x 25 mm</li> </ul>

**!** Notice: Only available in conjunction with ekey design elements.







Control panel



## Step 2: Select the ekey multi control panel!



### Control panel



Part no.	Description
101163	ekey multi CP DRM 4, 4 relays
	<ul style="list-style-type: none"> <li>• Dimensions W x H x D: 70 x 86 x 54 mm (4 HP)</li> <li>• Power consumption: approx. 1 W</li> <li>• Supply voltage: 10-24 VDC</li> <li>• Temperature range: -20 °C to 70 °C</li> <li>• IP code: IP 20</li> <li>• Relays: 4 potential-free relays</li> <li>• Max. relay voltage, max. relay current: 42 VAC/DC; 2 A</li> <li>• Operation: 4 buttons</li> <li>• RS-485 termination: switchable</li> <li>• 8 languages can be set</li> <li>• Inputs (request-to-exit button): 4 potential-free inputs</li> </ul>
	<ul style="list-style-type: none"> <li>• Display: LCD 106 x 56 pixels, 7 lines/21 characters + 2 rows/4 status LEDs</li> <li>• Runtime buffer for built-in clock: 96 h</li> <li>• Connect up to 4 scanners/keypads, enroll users, delete individual users, set relay switching times (0-99 s), change security code, reset, adjust LED brightness, test mode, 3 time zones, access logging, master key plan, names input, vacation and permanent program, configurable inputs</li> <li>• KNX-compatible</li> </ul>

### Accessory



Part no.	Description
100433	ekey multi CV USB RS-485
	<ul style="list-style-type: none"> <li>• ekey multi data backup on PC (finger templates, control panel configuration, log files, etc.)</li> <li>• Configuration of the ekey Wiegand converter (101582)</li> </ul>
	<ul style="list-style-type: none"> <li>• Scope of delivery: USB converter, software, USB cable</li> </ul>

# Step 3: Select a suitable power supply!



## Power supply



Part no.	Description
100204	ekey PS OM 230 VAC/12 VDC/2 A, power supply outlet-mounted <ul style="list-style-type: none"> <li>• Dimensions Ø x H: 54 x 31 mm</li> <li>• Supply voltage: 230 VAC</li> <li>• Output voltage, output current: 12 VDC/2 A</li> <li>• Temperature range: -5 °C to 50 °C</li> </ul>
100205	ekey PS DRM 230 VAC/12 VDC/2 A, power supply for DIN-rail mounting <ul style="list-style-type: none"> <li>• Dimensions W x H x D: 52.5 x 93 x 68.5 mm (3 HP)</li> <li>• Supply voltage: 230 VAC</li> <li>• Output voltage, output current: 12 VDC/2 A</li> <li>• Temperature range: -10 °C to 45 °C</li> </ul>
100891	ekey PS DRM 230 VAC/24 VDC/2 A, power supply for DIN-rail mounting <ul style="list-style-type: none"> <li>• Dimensions W x H x D: 70 x 93 x 66.5 mm (4 HP)</li> <li>• Supply voltage: 230 VAC</li> <li>• Output voltage, output current: 24 VDC/2 A</li> <li>• Temperature range: -5 °C to 50 °C</li> </ul>



## Uninterruptible power supply

Recommended  
by us

The uninterruptible power supply (UPS) comprises a switched-mode power supply and a battery. In the event of a power failure, it can be relied upon to supply power to the finger scanner, the control panel, and the motorized lock for several hours.

Part no.	Description
101559	ekey UPS DRM 230 VAC/12 VDC/4 Ah, DIN-rail mounted <ul style="list-style-type: none"> <li>• Dimensions W x H x D: UPS: 108 x 94 x 95 mm (6 HP) Battery: 157 x 93 x 66.5 mm (9 HP)</li> <li>• Supply voltage: 100-240 VAC</li> <li>• 2 parts: UPS (switched-mode power supply) and battery</li> <li>• Output voltage, output current: 12 VDC/5 A</li> <li>• Temperature range: -10 °C to 40 °C</li> <li>• Function display: LED</li> <li>• Advantage: Replaces the power supply device; ensures a reliable supply of current to the system for several hours. Suitable for use in conjunction with a motorized lock.</li> </ul>
101593	ekey UPS DRM 230 VAC/24 VDC/4 Ah, DIN-rail mounted* <ul style="list-style-type: none"> <li>• Dimensions W x H x D: UPS: 108 x 94 x 95 mm (6 HP) Battery: 157 x 93 x 66.5 mm (9 HP)</li> <li>• Supply voltage: 100-240 VAC</li> <li>• 3 parts: UPS (switched-mode power supply) and 2 batteries</li> <li>• Output voltage, output current: 24 VDC/3 A</li> <li>• Temperature range: -10 °C to 40 °C</li> <li>• Function display: LED</li> <li>• Advantage: Replaces the power supply device; ensures a reliable supply of current to the system for several hours. Suitable for use in conjunction with a motorized lock.</li> </ul>

**! Attention:** The scope of delivery for door stations often includes a power supply, which can be used for finger scanners and code pads too. Check the voltage and current needed to control the consumers (door strike, motorized lock). The scope of delivery for motorized locks usually includes a power supply.

## Step 4: Select a suitable interface, if required!



### Connection to home automation systems



Part no.	Description
100460	<b>ekey home CV LAN RS-485</b>
	<ul style="list-style-type: none"> <li>RS-485/LAN interface for connection to third-party systems (e.g., KNX) with UDP protocol</li> <li>Scope of delivery: LAN converter, software</li> </ul>

#### „ekey multi“ protocol

1	0012	GEORG	1	8	1	80131004120001	GAR	1	-
Packet type	User ID	User name	User status	Finger ID	Key	Finger scanner serial number	Finger scanner name	Action	Input ID



Part no.	Description
101719	<b>ekey home CV KNX RS-485</b>
	<ul style="list-style-type: none"> <li>The ekey KNX converter is used to trigger functions in home automation systems based on the KNX home automation bus.</li> <li>Makeup: DIN-rail mounting</li> <li>Dimensions W x H x D: 18 x 98 x 61 mm (1 HP)</li> <li>Supply voltage: 12-24 VDC</li> <li>Mounting type: DIN rail</li> <li>RS-485 cable length: 10 m</li> <li>Number of RS-485 interfaces: 1</li> <li>RS-485 protocol: ekey home</li> <li>12 events (10 freely configurable, 1 „Unknown“, 1 „Security“) in addition to relay contacts on the control panel</li> <li>Own ETS application (ETS 5)</li> <li>Functions: switching, sending values, selecting scenes</li> <li>Assigning an event to a finger</li> </ul>



### Connection to alarm systems or other access control systems



Part no.	Description
101582	<b>ekey home CV WIEG RS-485</b>
	<ul style="list-style-type: none"> <li>The ekey Wiegand converter converts the RS-485 protocol used by ekey into a 26-bit Wiegand protocol. The product can be configured with the ekey multi CV USB RS-485 (100433).</li> <li>Scope of delivery: Wiegand converter, software</li> </ul>





## ekey lock radio cylinder

Retrofitting solution for all ekey systems

### No more keys ...

The ekey lock radio cylinder makes it easy to retrofit existing doors with finger scanners. Say goodbye to heavy bunches of keys and lost keys. Finger scanners are the safe and secure alternative to keys, which can be easily lost, forgotten, or stolen.

### Benefits of ekey lock:

- For internal, external, and glass doors
- No cables inside the door
- Easy mounting
- Suitable for single-point and multi-point locks
- Take it with you when you move house
- Existing fittings are retained

### Short facts:

- Radio range indoors up to 10 m
- Encrypted communication (frequency: 868 MHz)
- Standby time approx. 6 years
- Ergonomically optimized mechanical knob
- „Made in Germany“ durable cylinder mechanism
- Long battery life (approx. 75,000 cycles)
- Batteries are easy to replace
- Compatible with all ekey finger scanners and the ekey code pad





## What you need to get your system into operation:






### Optional:

- ekey lock wireless transponder for emergency opening



## Basic set

	Part no.	Description
	101968	ekey lock radio modules 4.0
		Scope of delivery: <ul style="list-style-type: none"> <li>• Module knob (MOK)</li> <li>• Radio emitting module (REM)</li> <li>• Short antenna (SANT)</li> </ul>
		Cylinders available in external/internal lengths ranging from 30/30 to 70/70 in 5 mm increments (see price list) Scope of delivery: Mechanical knob (MEK) with permanently assembled cylinder

**!** Important: Use the measuring gage to determine the correct cylinder length. For cylinder lengths, see price list.

## Accessory



Part no.	Description
101969	ekey lock wireless transponder 4.0
	Replacement key; backup for opening if there is no second entrance (battery type CR2032)

## Electric strike



Part no.	Description
150021	ekey lock electric strike
	Scope of delivery: Electric strike 10-24VAC/DC, flat shield 25 x 250 x 3 mm

### Determine cylinder length

Cut out the measuring gauge from page 79 and slide it into the opening where the lock cylinder should be.



# Retrofit solutions

from ekey finger scanner wall-mounted 1.0 to outlet-mounted E or wall-mounted 2.0

## Retrofit solution to finger scanner outlet-mounted E



Part no.	Description
On request	ekey wall mounting set FS WM 1.0
	<ul style="list-style-type: none"> <li>With this upgrade kit, these accessories can be used after the lifetime of an ekey FS WM 1.0 has ended. The wall mounting set is reconstructed in a way that allows room for an ekey FS OM E. Cutting and milling work is not necessary for the reconstruction. Everything can be screwed and glued.</li> </ul>
	Scope of delivery: <ul style="list-style-type: none"> <li>Front panel made of stainless steel</li> <li>Mounting bracket</li> <li>Screws for FS OM E</li> </ul>

**! Attention:** RFID function is not possible with ekey wall mounting set WM 1.0 (101765)!

**! Attention:** Reconstruction work is done in the ekey factory!

## Retrofit solution to finger scanner wall-mounted 2.0



Part no.	Description
101753	ekey mounting plate FS WM 2.0 ST
	<ul style="list-style-type: none"> <li>The ekey mounting plate made of stainless steel for the ekey finger scanner wall-mounted 2.0 is used as a mounting aid for the ekey finger scanner wall-mounted 2.0 on top of electronic flush mount back boxes. It is also used as a mounting aid during upgrades of the ekey finger scanner wall-mounted 1.0 to version 2.0.</li> </ul>
	Scope of delivery: <ul style="list-style-type: none"> <li>Mounting plate made of stainless steel</li> <li>Screw anchors</li> <li>Stainless-steel screws</li> </ul>





# Know who is coming home!

Integrating ekey finger scanners into building control systems







## ekey makes your home more intelligent.

There is already a wide selection of different manufacturers making building control systems which are designed to make 21st century life as comfortable and safe as possible for you. However, by using the ekey fingerprint access control system, these systems can now detect which person triggers an action. As a result, they can control and organize the building based on a particular person.

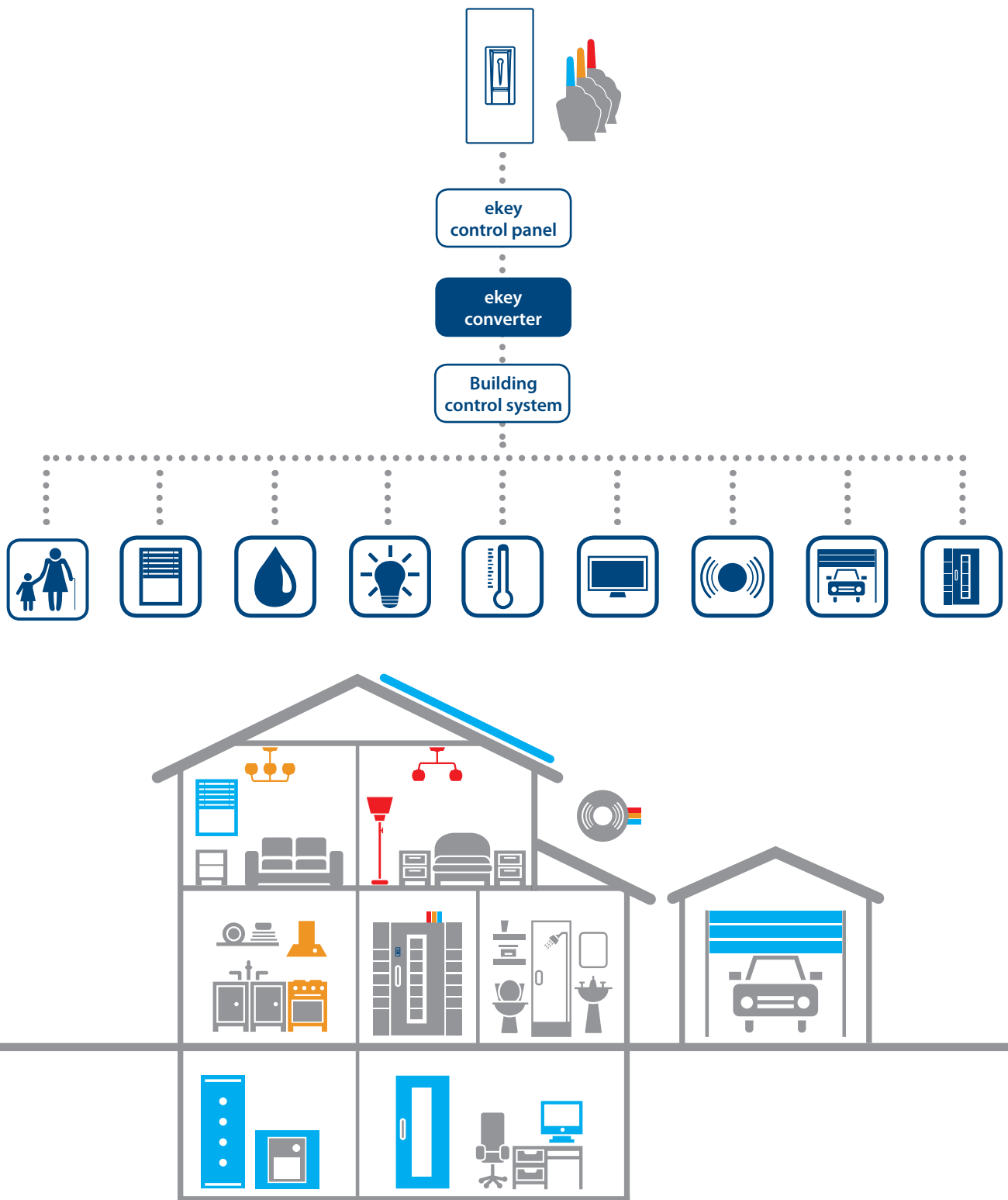
### By integrating ekey fingerprint access control solutions into your building control system, you get lots of new options:

- With ekey, the house knows **who** is present and who is not in the house.
- Depending on who is entering the house, it is possible to do much more with your fingerprint than simply opening the door – you can also **save a lot of energy** as the lighting, heating, and blinds are controlled intelligently.
- These options can be **configured on a user-specific basis** – so the TV and the stove remain off when it's just the children at home, for example.
- It is even possible to implement **time-dependent authorizations**: This means, for example, that the cleaner only has access to the house at certain times.

### When it comes to the user-defined options, the only limit is the user's imagination.

- For public buildings and companies, there is the option to record who has entered the building, as well as the time and location at which they entered. This also makes it possible to use the system for time-recording purposes.
- What's more, information about whether an authorized finger has been swiped over the reader is available. If a person is not authorized, this information could be used to switch on the garden lighting and store a photo from the door camera in an archive, for example.
- Using a logic in the building control system, it is possible to trigger a different command with each finger saved.

Automate your house intelligently, starting with an ekey fingerprint access control solution.



Control4



GIRA



HomeMatic  
SAVANT



## The advantages of ekey finger scanners in conjunction with building control systems are at your fingertips.



### UNIQUE IDENTIFICATION

creates the ideal conditions for a home automation system that works as efficiently as possible so that **your house knows who is home!**



### HIGHLY INNOVATIVE TECHNOLOGY

- State-of-the-art access solutions are a fundamental feature of advanced building concepts
- Increase the value of the property



### PERSON-SPECIFIC CONFIGURATIONS, for example

- Children: Disable the stove, enable the camera in the house
- Light setting control, heating/air conditioning control, shading



### ACCESS CONTROL

- Thanks to the access log, you know who triggered an action, and when and where they did so!
- This also makes it possible to use the system for time-recording purposes!
- Information about whether an authorized finger has been swiped over the reader!
- Time-dependent authorizations, e.g., cleaner (Friday between 8 a.m. and 12 p.m.)



### DIFFERENT ACTIONS can be triggered with different fingers, for example

- Enabling/disabling the alarm system
- Checking in and out (in the building control system)
- Opening doors, gates, etc.
- Switching various controls



### SAVING ENERGY

- For example, by controlling all sections of the building
- By using predefined settings for lighting, blinds, heating, air conditioning, and ventilation
- Holiday function



### ACCESSIBILITY

for young and old alike is often a key consideration for customers.  
For example, enabling the voice control using fingerprint identification

## ekey interfaces for connecting the equipment to third-party systems:



### ekey home CV LAN RS-485

Part no. 100460

The ekey LAN converter for connecting the equipment to third-party systems with a UDP protocol.



### ekey home CV WIEG RS-485

Part no. 101582

The ekey Wiegand converter converts the RS-485 protocol used by ekey into a 26-bit Wiegand protocol.



### ekey home CV KNX RS-485

Part no. 101719

The certified ekey KNX converter converts access information directly into KNX events.

As well as various converters (KNX, UDP, Wiegand), ekey also offers the option of coupling finger scanners with third-party systems directly using a software development kit and managing them using this.

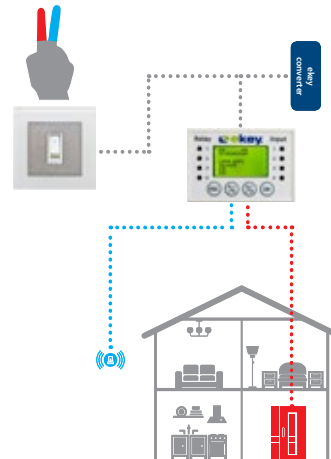
## ekey provides the right solution for every requirement!

ekey gives you the option of integrating third-party systems, such as building control or alarm systems, into ekey access control systems using ekey KNX, Wiegand, or LAN (UDP) converters.

### ekey home Single-point access solutions

Control up to 3 functions with just one finger scanner\*.

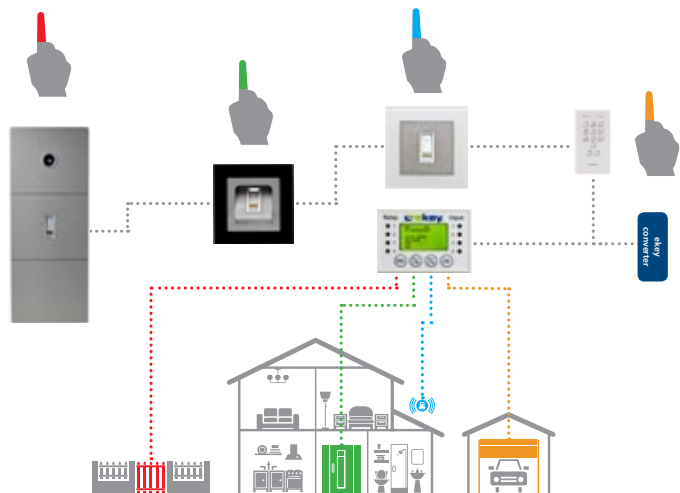
- Can store up to 99 fingerprints
- Can control from 1 to 3 functions (e.g., door, gate, and alarm system)
- Easy to operate with central user administration directly via the control panel
- Or by using the *ekey home app* (*ekey finger scanner integra*, *ekey finger scanner arte*)
- Optional: access by card (RFID)  
-> can also store up to 99 cards



### ekey multi Multi-point access solutions

4 finger scanners\* are managed by a single control panel.

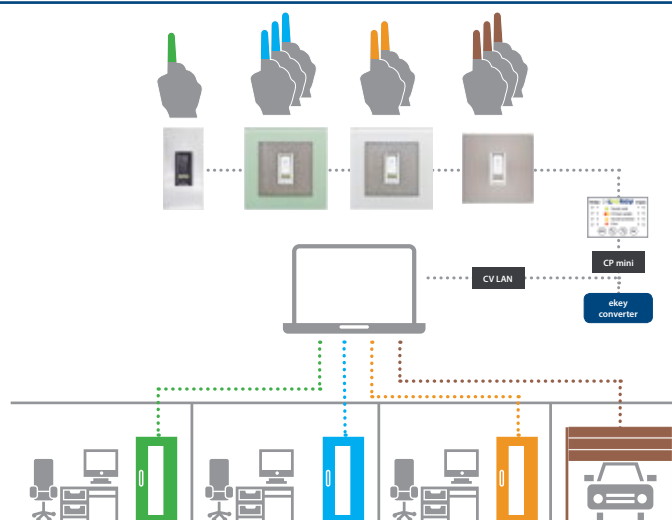
- Can store up to 99 fingerprints
- Supports up to 4 finger scanners
- Can control up to 4 functions per FS (e.g., door, gate, and alarm system)
- Individually programmable time slots
- Access log for every finger scanner
- Easy to operate with central user administration directly via the control panel
- User permissions can be assigned on a personalized basis (based on location and time)
- Vacation or permanent program
- Optional: access by card (RFID)  
-> can also store up to 99 cards



### ekey net Network access solutions

The networkable access solution for companies, organizations, and discerning households.

- Can store up to 2,000 fingerprints per finger scanner\*
- Supports up to 80 finger scanners
- Can control up to 4 functions per FS
- Programmable time slots
- Access log for every finger scanner
- Supports cross-site administration
- Central administration via PC
- Calendar function
- Interfaces for establishing external connections
- Optional: access by card (RFID)  
-> can also store up to 2,000 cards



\*Alternatively: code pad (keypad) -> can store up to 99 or 2,000 codes



ekey

Home  
automation

**BECKHOFF**

New Automation Technology

#### Areas of application

- Private home
- Business enterprise
- Machine control
- Plant engineering
- Elevator control
- Shipbuilding
- And much more



# ekey finger scanners + Beckhoff

Integration into Beckhoff automation systems

## Complete integration offers you considerable advantages:

- Maximum security
- Own access control system via Beckhoff
- Authorization systems for plants, buildings, and machines
- Use of existing Beckhoff infrastructure and switch actuators
- Personalized scene selection
- Convenient visualization and administration via touch displays

## How it works:

1. You need the COMPONENTS from ekey and Beckhoff.
2. The finger scanner is controlled via a free Application Note from the TwinCAT Information System and the "Serial Communication" TwinCAT Supplement.



You can find further information at:  
<http://goo.gl/a0J9g3>





## ekey finger scanners for Beckhoff



Part no.	Description	
<b>For wall mounting and easy retrofitting.</b>		
101556	<b>ekey FS WM 2.0 Beckhoff, steel-gray</b>	
	RS-485, 255 users, for Beckhoff	FS WM 2.0
101683	<b>ekey FS WM 2.0 RFID Beckhoff, steel-gray</b>	
	RS-485, 255 users, for Beckhoff	FS WM 2.0 with RFID card reader
101699	<b>ekey FS WM 2.0 RFID + REL Beckhoff*, steel-gray</b>	
	RS-485, 255 users, for Beckhoff	FS WM 2.0 with RFID card reader and integrated switching relay
<b>For mounting in doors or walls.</b>		
101557	<b>ekey FS IN 2.0 E Beckhoff, stainless steel</b>	
	RS-485, 255 users, for Beckhoff	FS IN 2.0 with 24 cm connection cable
101698	<b>ekey FS IN 2.0 E RFID Beckhoff*, stainless steel</b>	
	RS-485, 255 users, for Beckhoff	FS IN 2.0 with 24 cm connection cable and RFID card reader
<b>For integration into door stations.</b>		
101554	<b>ekey FS OM I Beckhoff</b>	
	RS-485, 255 users, for Beckhoff	FS OM I for integration without design element
101682	<b>ekey FS OM I RFID Beckhoff*</b>	
	RS-485, 255 users, for Beckhoff	FS OM I for integration without design element with RFID card reader
<b>For integration into switch frames.</b>		
101555	<b>ekey FS OM E Beckhoff, pure white</b>	
	RS-485, 255 users, for Beckhoff	FS OM E for switch frames
101681	<b>ekey FS OM E RFID Beckhoff*, pure white</b>	
	RS-485, 255 users, for Beckhoff	FS OM E with RFID card reader, for switch frames
101598	<b>ekey FS OM E REL Beckhoff, pure white</b>	
	RS-485, 255 users, for Beckhoff	FS OM E with integrated switching relay, for switch frames

\*ekey RFID card (100875) or ekey RFID fob (100662) on request!



## Beckhoff components



Beckhoff Automation  
GmbH & Co. KG

Part no.	Description	
KL6041	<b>KL6041 serial interface for K-bus</b>	
	RS-485	Up to 8 finger scanners per terminal
EL6021	<b>EL6021 serial interface for E-bus</b>	
	RS-485, 115.2 kBAud	Up to 8 finger scanners per terminal

# Tips and tricks

## Congratulations on purchasing your ekey product!

Your finger is now also your key! Our tips and tricks will help you to make the best possible use of your ekey finger scanners.



### Installation position and mounting height

**Installation position:** Finding the right position for the finger scanner will make the finger swipe technique much easier to master and will improve finger recognition. The finger scanner works just as well whether you are right-handed or left-handed!

It is important to have enough moving space when standing in front of the finger scanner. Straining to reach the scanner will produce poor results.

**Mounting height:** The scanner can only be used ergonomically if it is mounted at the right height.



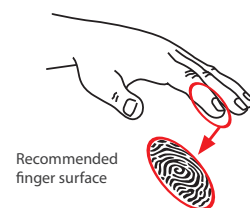
Type	Recommended mounting height
WM (wall-mounted)	135 cm
OM (outlet-mounted)	100/155 cm
IN (integra)	155 cm
AR (arte)	155 cm



### Sensor and finger surface

The sensor is the narrow strip across the bottom part of the finger swipe area. You must swipe the front phalanx fully over the sensor in order to achieve optimal results. The sensor must not be subjected to any mechanical stress other than operation with a finger.

Do not scratch the sensor with your fingernail. Never clean the sensor with the rough side of a sponge or with any aggressive cleaning agents. Damaged sensors must be replaced.



### Finger scan

From experience, the best fingers to use are as follows: **1. Middle finger, 2. Index finger, 3. Ring finger.** The thumb and the little finger should not be used. Each person will have fingers that are more or less suitable for scanning. It is a good idea to use the hand you write with (right-handed/left-handed), as you will have more feeling in this hand. You should choose a clean finger without any cuts or grazes. If your finger has very few lines due to abrasion or for genetic reasons, it will not be detected by the sensor. Clearly visible lines will make it easier to recognize.

Children should use their index finger or whichever finger they instinctively choose to use. Use the fingers that are most comfortable for you and those that are recognized the quickest.



### Mounting the control panel

The control panel switches the relay and must, therefore, only be mounted in the protected internal area (tamper-proof). It should, however, be easily accessible for programming purposes.

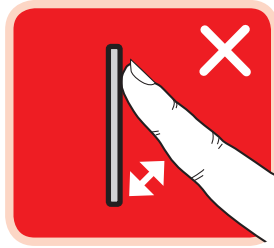
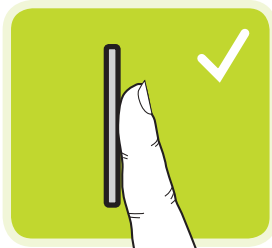
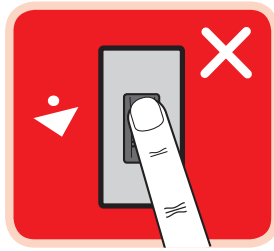


## Finger swipe area

A good finger swipe technique is crucial for optimal detection. The best method is to stretch out ALL of your fingers and place the finger to be scanned on the finger swipe area so that only the first phalanx is in contact with it. The joint of the first phalanx should be directly over the sensor.

Place the other fingers to the left and right of the scanner. Do not roll your finger onto the fingertip while swiping. Apply moderate pressure and swipe your finger evenly over the sensor at a medium speed: not too fast and not too slow. The incorrect amount of pressure will produce poor results.

The amount of pressure required will vary according to your skin type. Soft skin will require less pressure; dry skin will require more. Test a few different methods to see how you can achieve the best possible scan results for you. To begin with, the finger swipe technique takes a bit of practice. You will soon learn the best way to operate the scanner.



## Storing a finger

To enable convenient operation with either hand, and as a backup in case of injury, you should store one finger from each hand.

For fingers that are not so easy to scan – for example, those of small children, elderly people, or manual workers – the same finger should be stored in several storage spaces.

It is generally better to enroll one finger several times rather than several fingers once. This increases the likelihood of detection and means that the system works better at the thresholds of operation (dry fingers, skin cream, or sweat after sport) or when operated under unfavorable conditions.

### Intelligent software:

The ekey software is learning all the time – it can detect the growth of children's fingers as well as minor injuries and changes to users' habits.

### Children's fingers:

Children's fingers generally work from around school age. The specified mounting height must be observed in order to ensure correct operation.

## Support

Storing fingers and using the scanner is usually a straightforward process. However, if this information does not help you, please contact us:

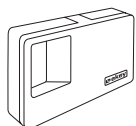
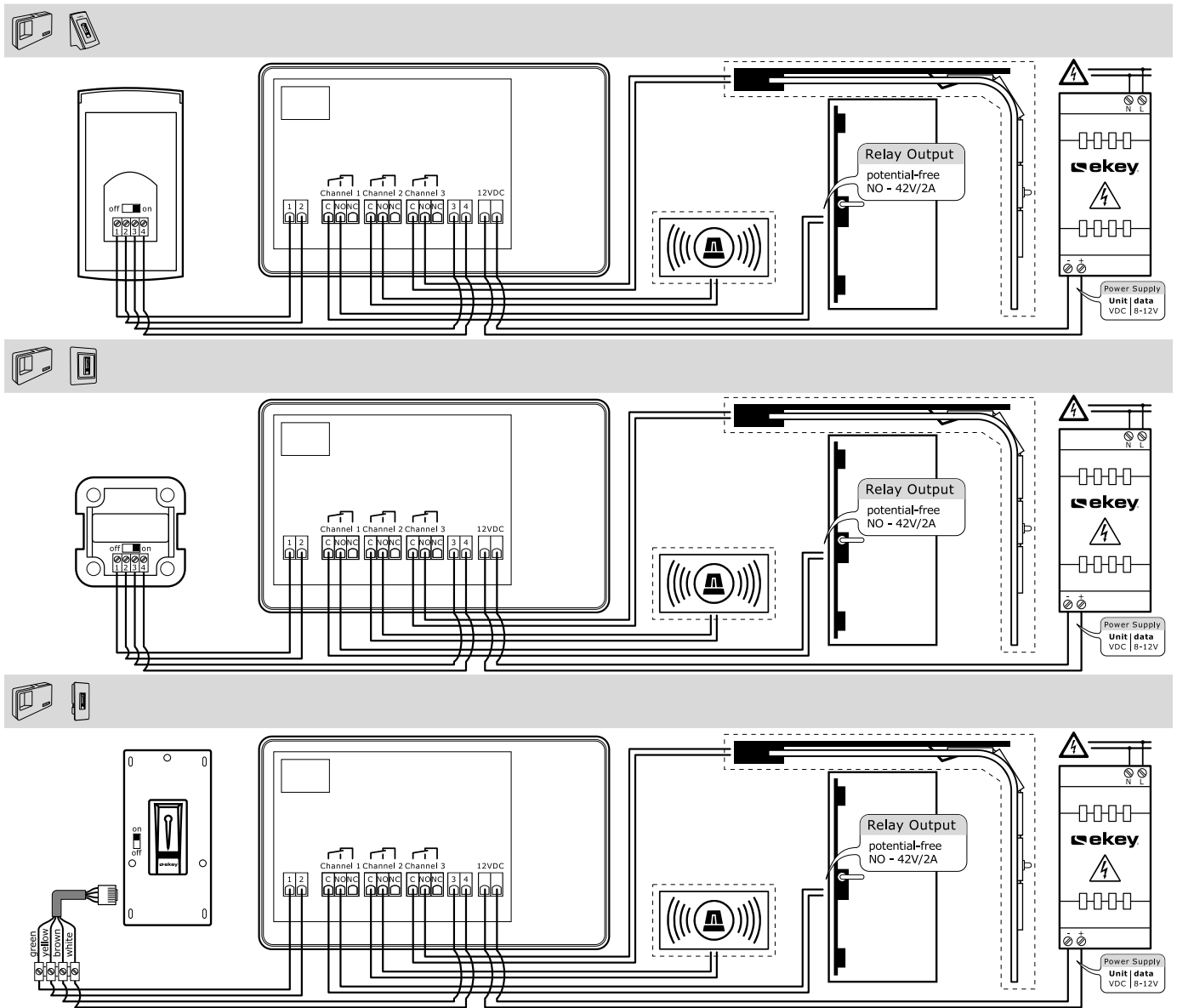
International:

+43 732 890 500 - 0





# Wiring diagram ekey home Control panel wall-mounted (CP WM)



Optional -



Cable recommendation: J-Y(ST)Y with 0.6 or 0.8 mm<sup>2</sup> respectively CAT6

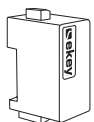
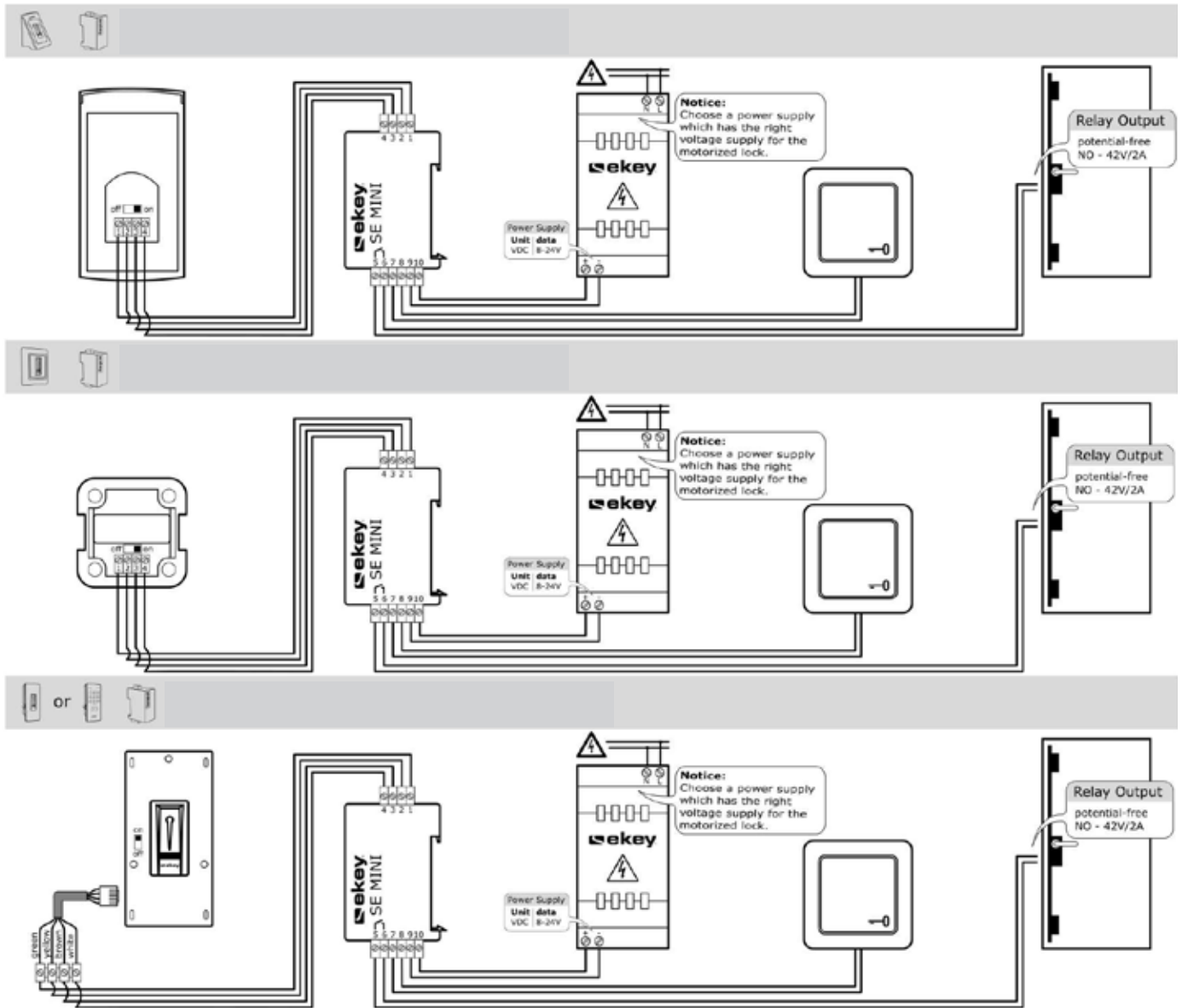


Pin	Description
1	RS-485 (Clamp 1)
2	RS-485 (Clamp 2)
CH1	Relay 1 C (common)
	Relay 2 NO (normally open)
	Relay 1 NC (normally closed)

Pin	Description
CH2	Relay 2 (common)
	Relay 2 NO (normally open)
	Relay 2 NC (normally closed)
CH3	Relay 3 C (common)
	Relay 3 NO (normally open)

Pin	Description
	Relay 3 NC (normally closed)
3	Power supply FS
4	Power supply FS
12VDC	+ VCC (8-12 VDC)
12VDC	- VCC

# Wiring diagram ekey home Control panel mini 1 (CP mini 1)



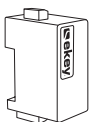
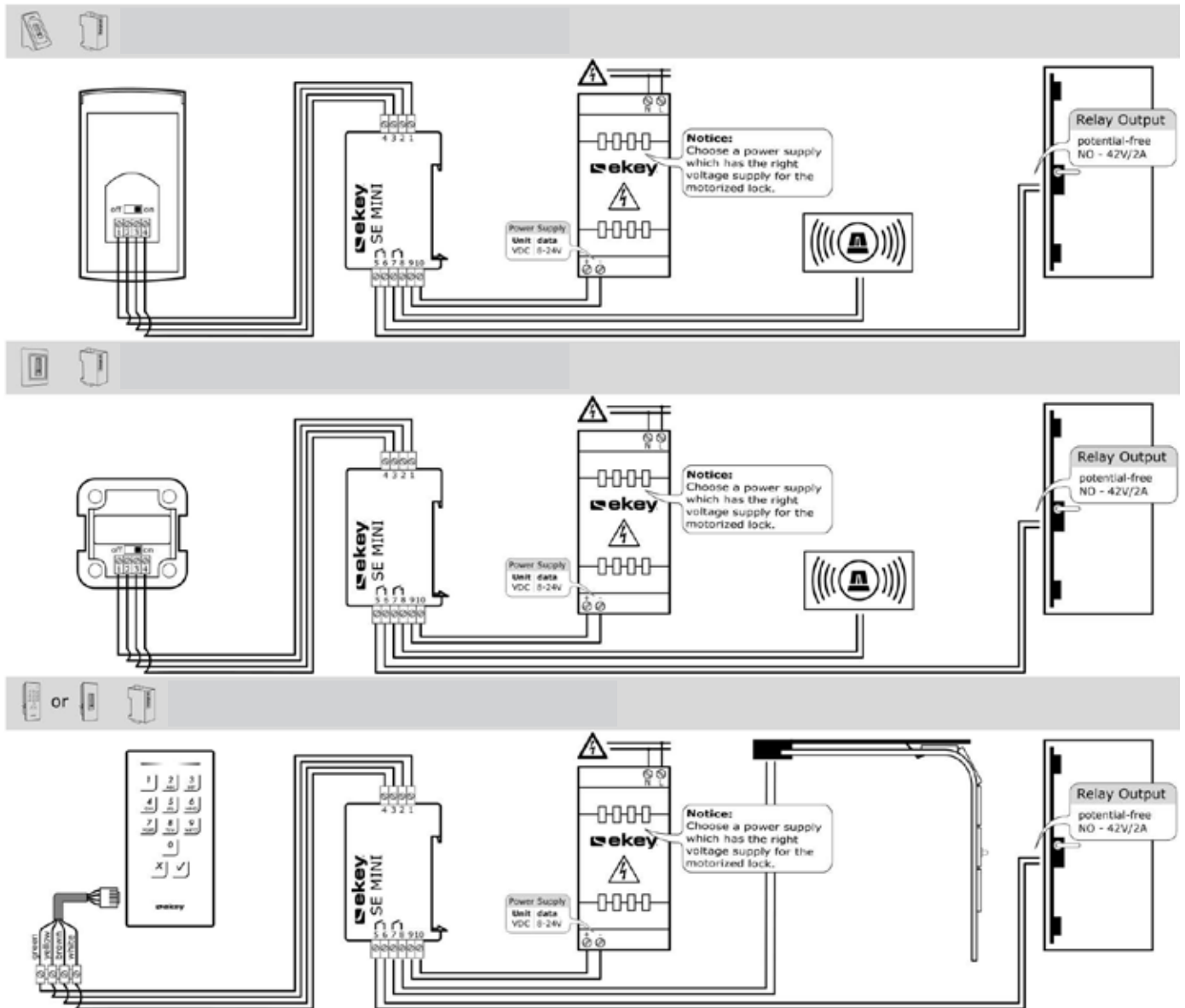
Cable recommendation: J-Y(ST)Y with 0.6 or 0.8 mm<sup>2</sup> respectively CAT6



Pin	Description
1	RS-485 (Clamp 1)
2	RS-485 (Clamp 2)
3	Power supply FS
4	Power supply FS
5	Relay C (common)

Pin	Description
6	Relay NO (normally open)
7	Input common
8	Input
9	-VCC
10	+VCC (8-24 VDC)

# Wiring diagram ekey home Control panel mini 2 (CP mini 2)



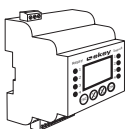
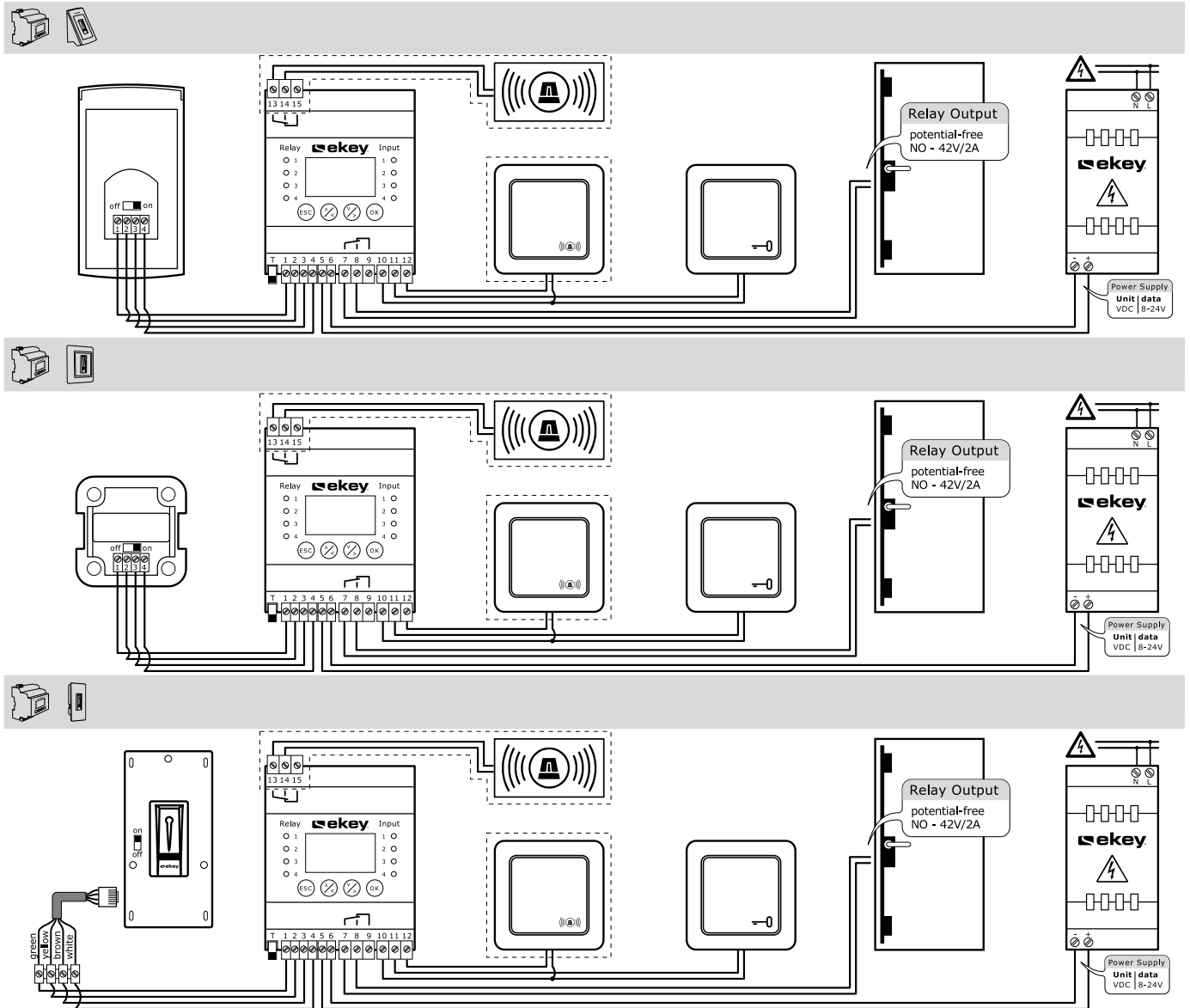
Cable recommendation: J-Y(ST)Y with 0.6 or 0.8 mm<sup>2</sup> respectively CAT6



Pin	Description
1	RS-485 (Clamp 1)
2	RS-485 (Clamp 2)
3	Power supply FS
4	Power supply FS
5	Relay C (common)

Pin	Description
6	Relay NO (normally open)
7	Input common
8	Input
9	-VCC
10	+VCC (8-24 VDC)

# Wiring diagram ekey home Control panel DIN-rail mounted (CP DRM)



Optional - [ ]

Cable recommendation: J-Y(ST)Y with 0.6 or 0.8 mm<sup>2</sup> respectively CAT6



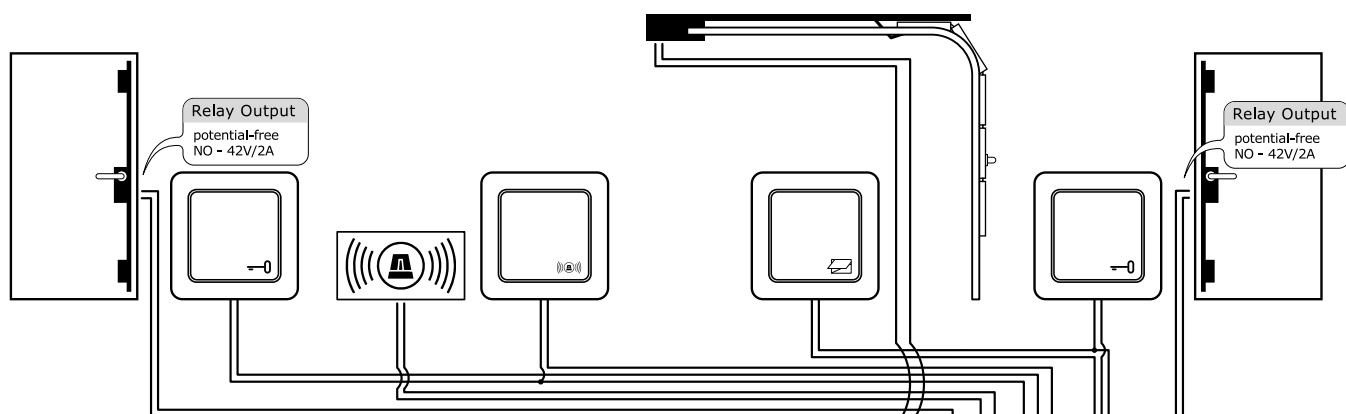
Pin	Description
1	RS-485 (Clamp 1)
2	RS-485 (Clamp 2)
3	Power supply FS
4	Power supply FS
5	+ VCC (8-24 VDC)

Pin	Description
6	- VCC
7	Relay 1 C (common)
8	Relay 1 NO (normally open)
9	Relay 1 NC (normally closed)
10	Input 1/2 common

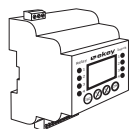
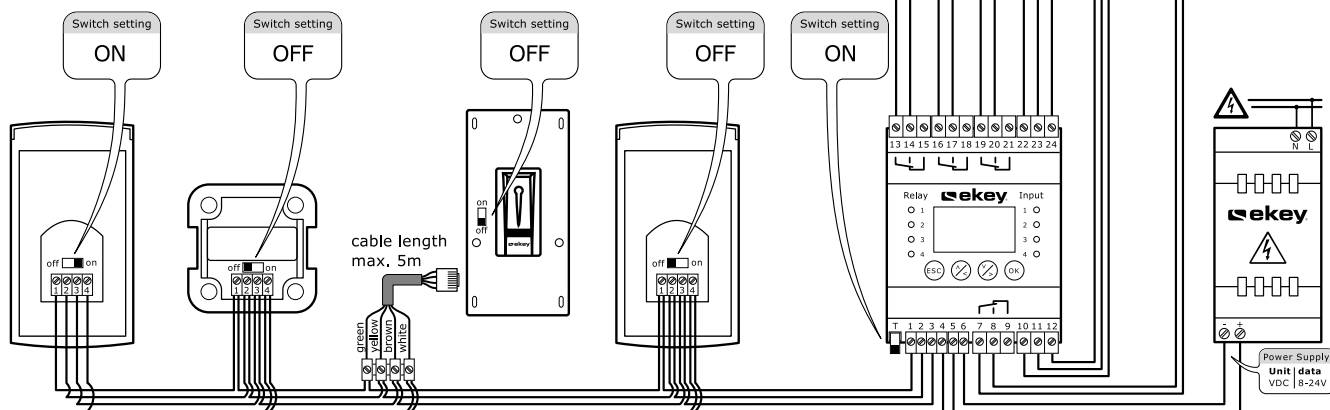
Pin	Description
11	Input 1 - potential-free!
12	Input 2 - potential-free!
13	Relay 2 C (common)
14	Relay 2 NO (normally open)
15	Relay 2 NC (normally closed)



# Wiring diagram ekey multi Control panel DIN-rail mounted 4 (CP DRM 4)



⚠ Switch the termination of the **first** and the **last** device in the RS485 bus line to "ON"



Optional -



Cable recommendation: J-Y(ST)Y with 0.6 or 0.8 mm<sup>2</sup> respectively CAT6

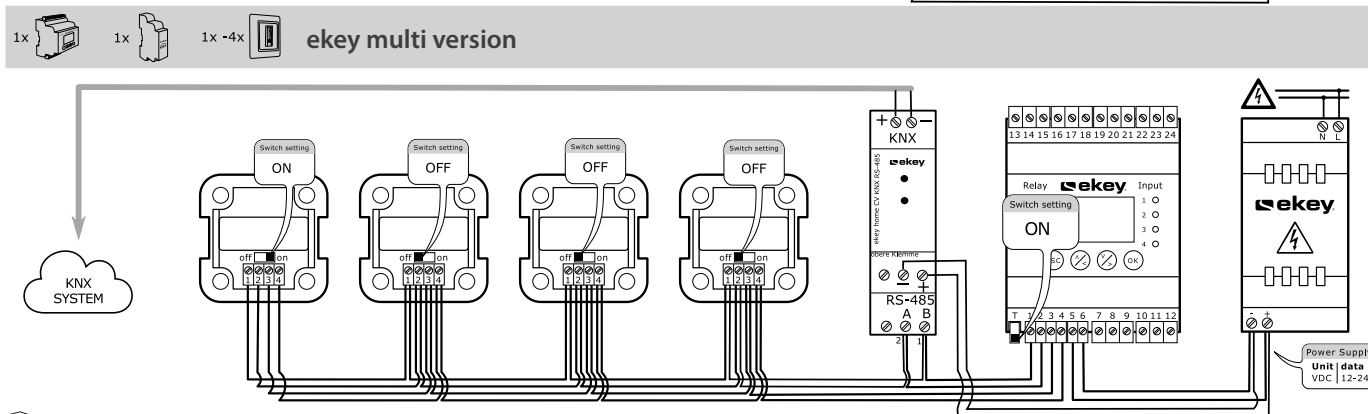
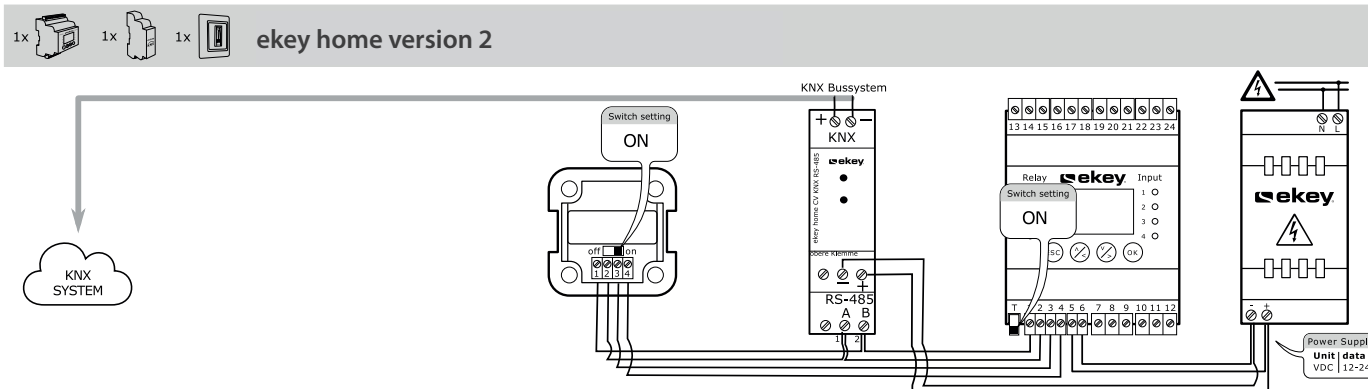
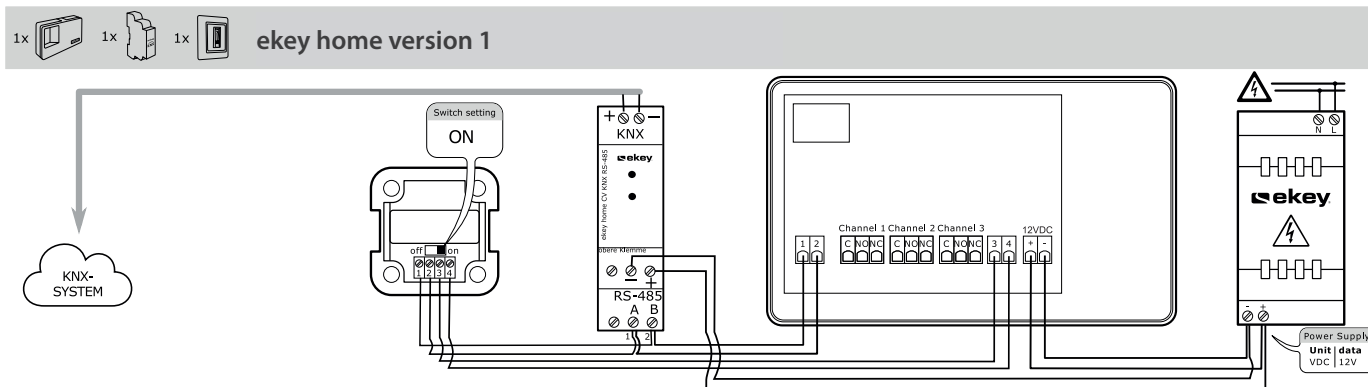


Pin	Description
1	RS-485 (Clamp 1)
2	RS-485 (Clamp 2)
3	Power supply FS
4	Power supply FS
5	+ VCC (8-24 VDC)
6	- VCC
7	Relay 1 C (common)
8	Relay 1 NO (normally open)

Pin	Description
9	Relay 1 NC (normally closed)
10	Input 1/2 common
11	Input 1 - potential-free!
12	Input 2 - potential-free!
13	Relay 2 C (common)
14	Relay 2 NO (normally open)
15	Relay 2 NC (normally closed)
16	Relay 3 C (common)

Pin	Description
17	Relay 3 NO (normally open)
18	Relay 3 NC (normally closed)
19	Relay 4 C (common)
20	Relay 4 NO (normally open)
21	Relay 4 NC (normally closed)
22	Input 3/4 common
23	Input 3 - potential-free!
24	Input 4 - potential-free!

# Wiring diagram ekey home Converter KNX (CV KNX RS-485)



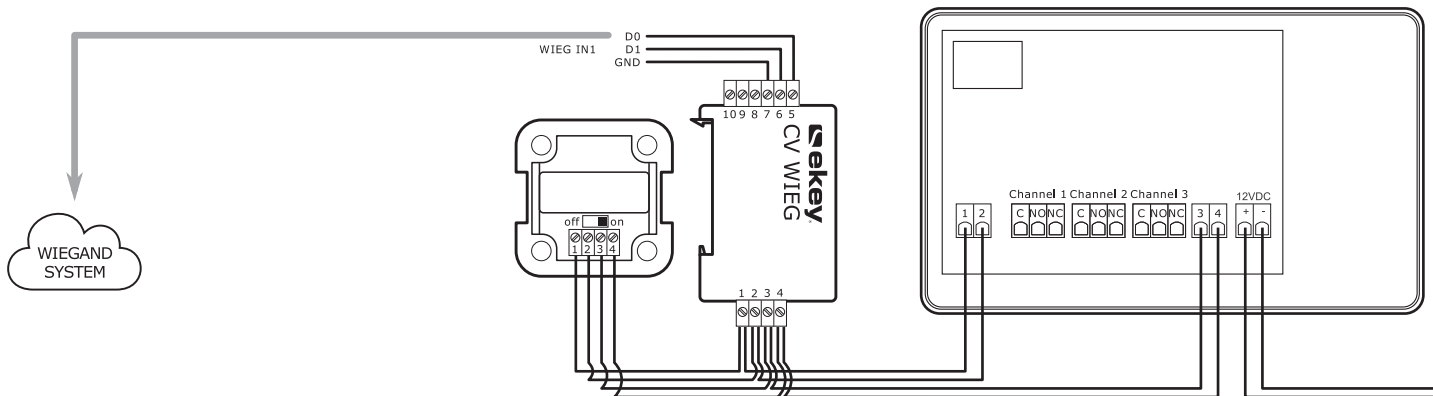
Cable recommendation: J-Y(ST)Y with 0.6 or 0.8 mm<sup>2</sup> respectively CAT6



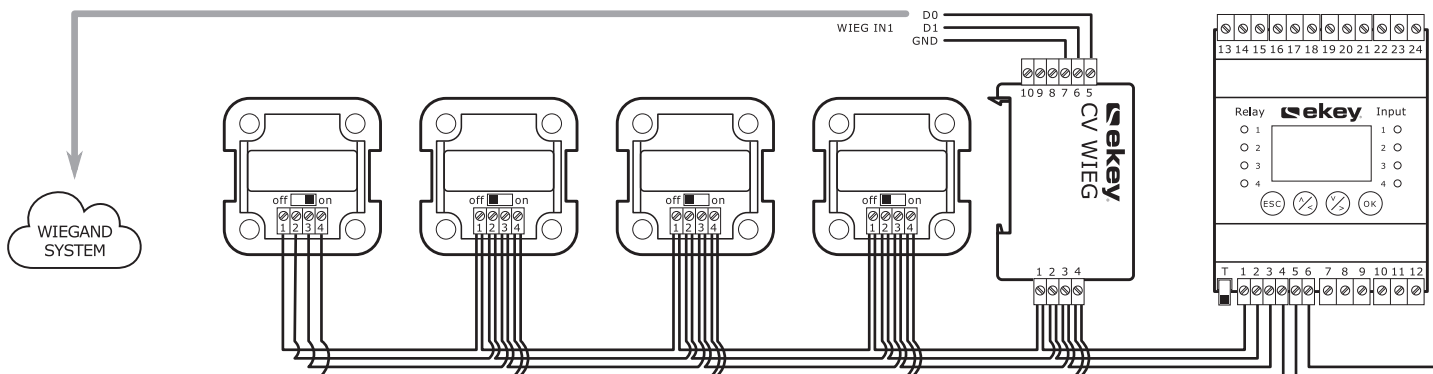
Pin	Description
B	RS-485 (Clamp 1)
A	RS-485 (Clamp 2)
+	Power supply + VDC
-	Power supply - (GND)
KNX +	KNX +
KNX -	KNX -

# Wiring diagram ekey home and ekey multi Converter Wiegand (CV WIEG RS-485)

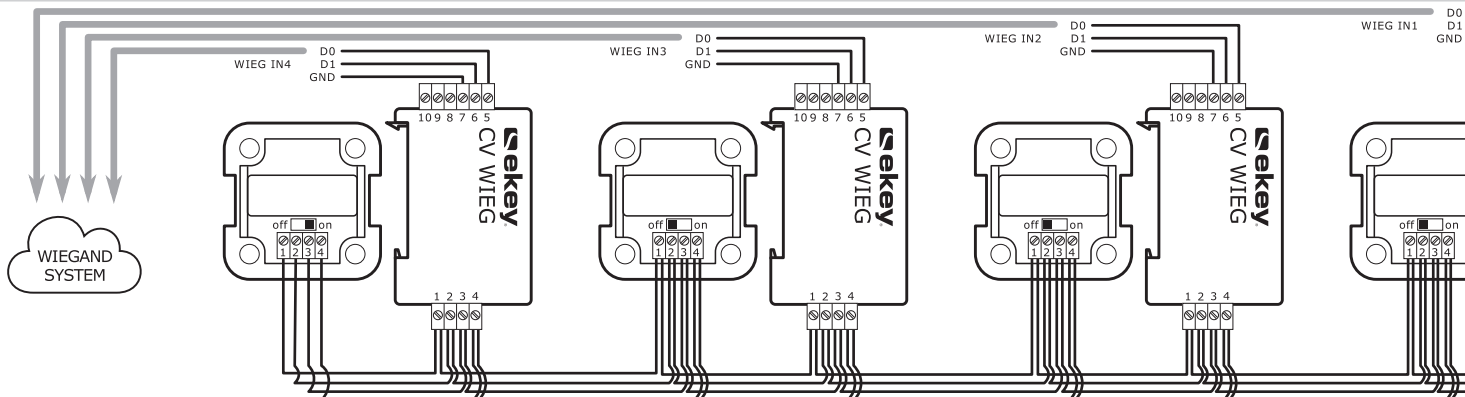
1x 1x 1x ekey home version

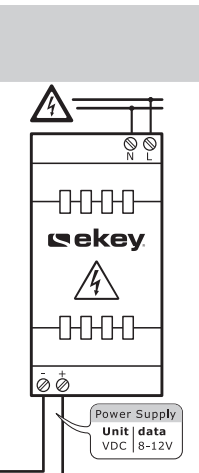


1x 1x 4x ekey multi version 1



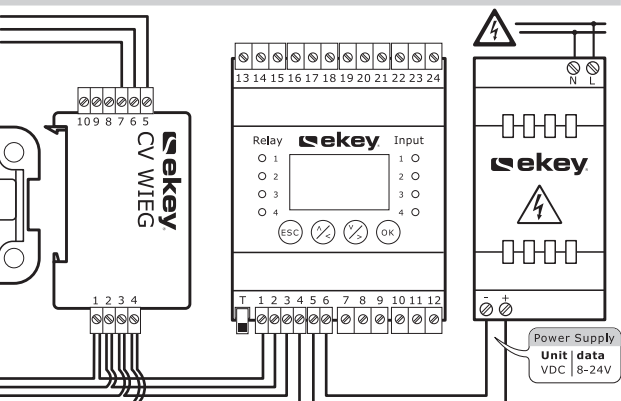
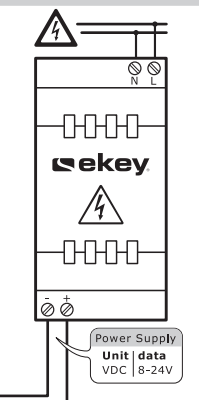
1x 4x 4x ekey multi version 2





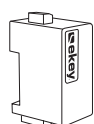
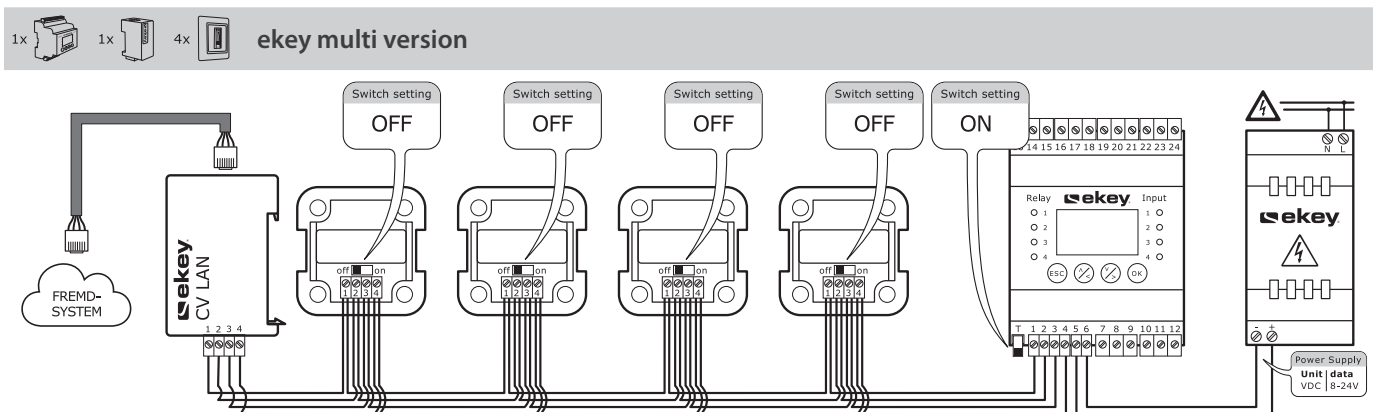
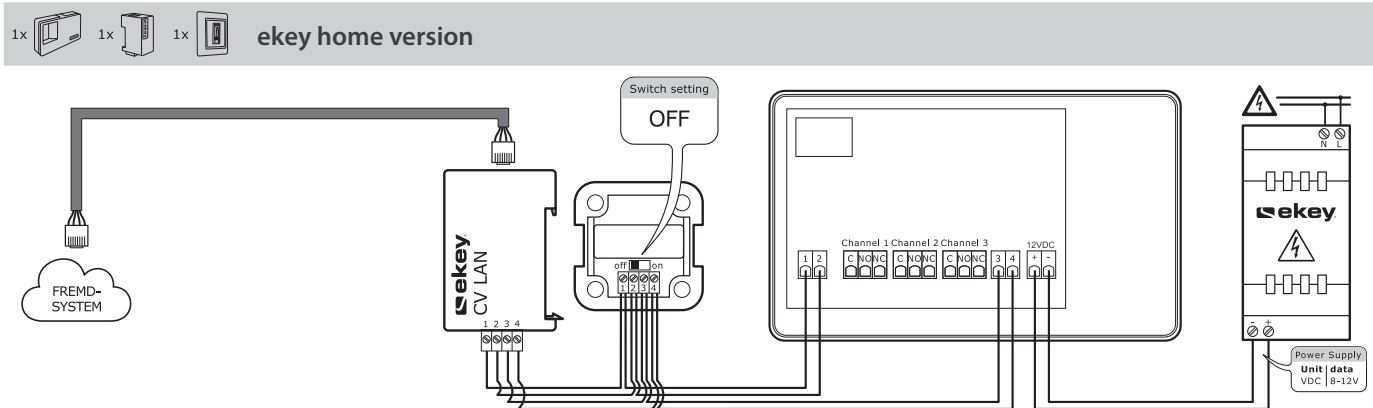
Cable recommendation: J-Y(ST)Y with 0.6 or 0.8 mm<sup>2</sup> respectively CAT6

Pin	Description
1	RS-485 (Clamp 1)
2	RS-485 (Clamp 2)
3	Power supply
4	Power supply
5	WIEGAND D0
6	WIEGAND D1
7	WIEGAND GND
8	free
9	free
10	free





# Wiring diagram ekey home and ekey multi Converter LAN (CV LAN RS-485)



Cable recommendation: J-Y(ST)Y with 0.6 or 0.8 mm<sup>2</sup> respectively CAT6

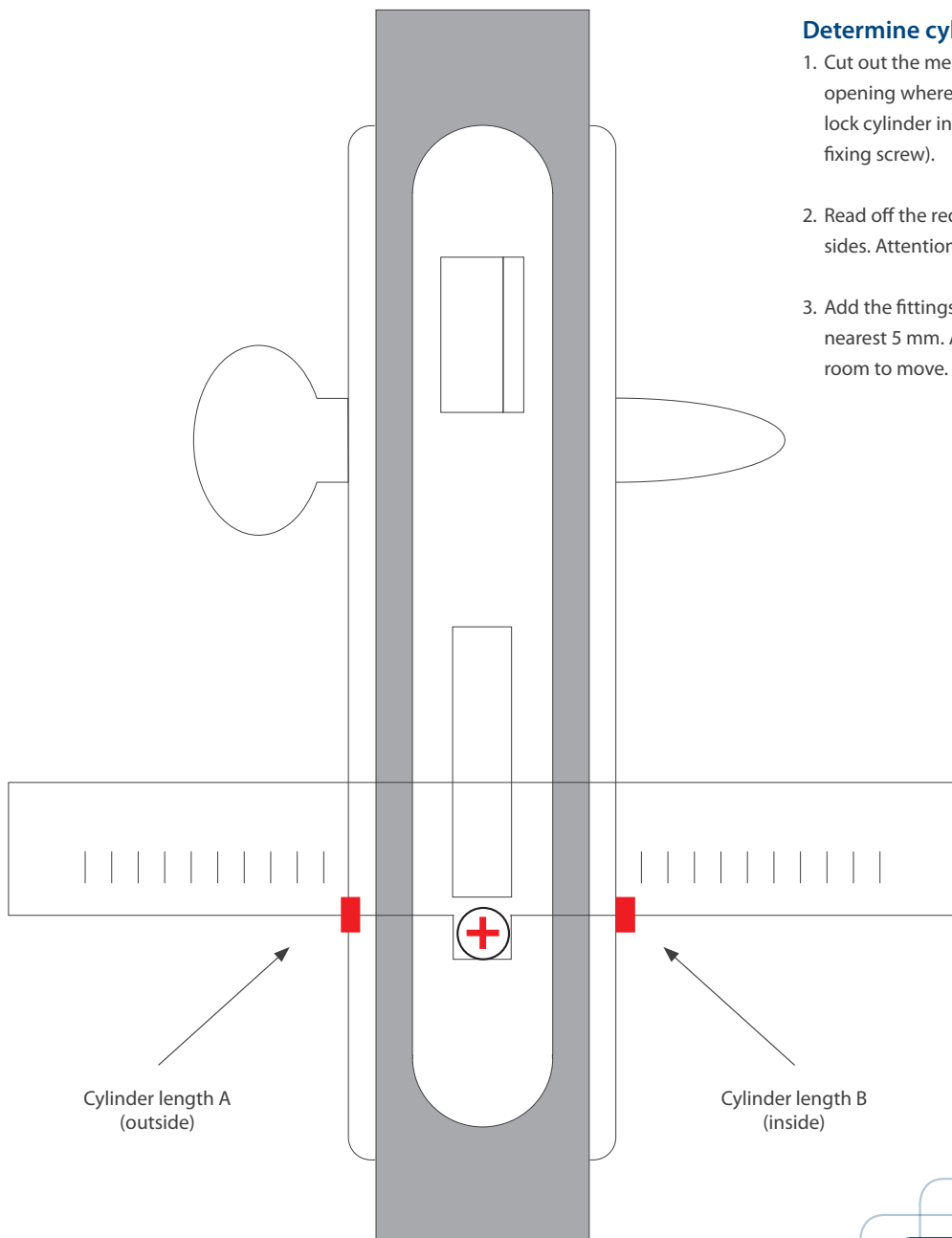


Pin	Description
1	RS-485 (Clamp 1)
2	RS-485 (Clamp 2)
3	Power supply FS
4	Power supply FS



**ekey MEDIA CENTER**  
 You can find all the information  
 on our products on our website:  
[www.ekey.net/en/pro-mediacenter](http://www.ekey.net/en/pro-mediacenter)

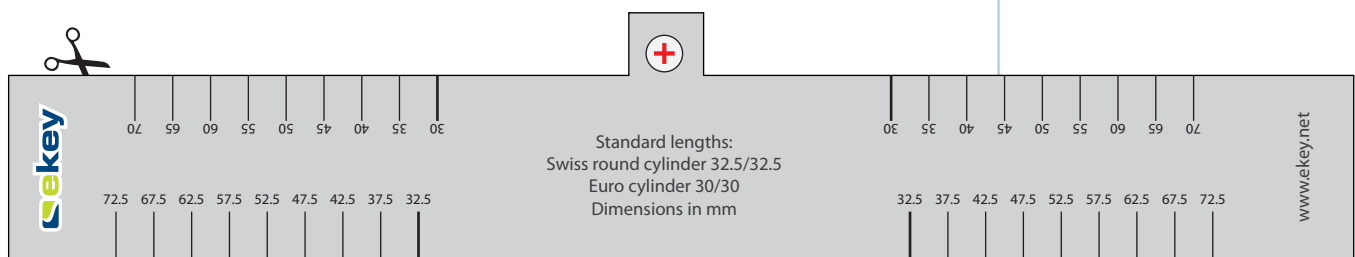
# ekey lock - cylinder length

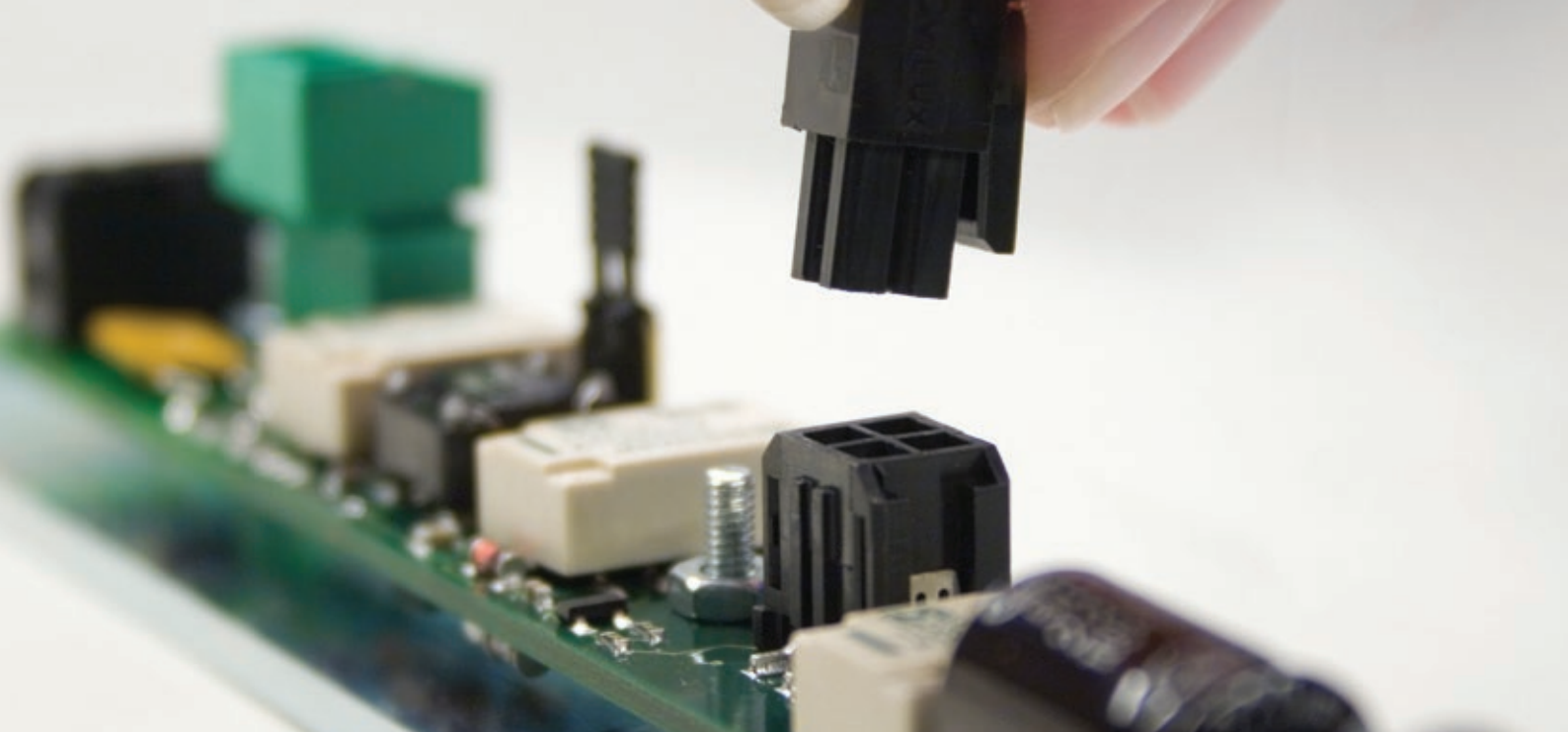


## Determine cylinder length:

1. Cut out the measuring gauge and slide it into the opening where the lock cylinder should be. Slide the lock cylinder into the opening. Fix in  $\oplus$  (= position of fixing screw).
2. Read off the required length of the cylinder on both sides. Attention: A is the outside measurement!
3. Add the fittings to the calculation and round up to the nearest 5 mm. Attention: Both knobs must have a little room to move.

**ekey lock measuring gauge:**  
Cut out the measuring gauge and read off the required cylinder length.





# Service tool

Part no.	Description
101255	ekey home/multi servicekit



For software updates of

- ekey home FS WM/OM/IN finger scanners
- ekey home CP IN/WM/DRM/mini and ekey multi CP DRM control panels (not ekey net)

- Scope of delivery: USB converter, software, USB cable, power supply, matching cable harnesses



Part no.	Description
101680	ekey dismantling suction cup

- For removing ekey design elements

# ekey compatibility list

Models		Converter	Control panels						
									
			ekey home CP WM		ekey home CP DRM		ekey home CP mini*		ekey multi CP DRM 4
			1	3	1	2	1	2	4
<b>ekey home FS WM 2.0</b>			✓	✓	✓	✓	✓	✓	✓
	LAN		✓	✓	✓	✓	✗	✗	✓
	WIEG		✓	✓	✓	✓	✗	✗	✓
	KNX		✓	✓	✓	✓	✓	✓	✓
<b>ekey home FS WM 2.0 RFID</b>			✓	✓	✓	✓	✓	✓	✓
	LAN		✓	✓	✓	✓	✗	✗	✓
	WIEG		✓	✓	✓	✓	✗	✗	✓
	KNX		✓	✓	✓	✓	✓	✓	✓
<b>ekey home FS OM E/OM I</b>			✓	✓	✓	✓	✓	✓	✓
	LAN		✓	✓	✓	✓	✗	✗	✓
	WIEG		✓	✓	✓	✓	✗	✗	✓
	KNX		✓	✓	✓	✓	✓	✓	✓
<b>ekey home FS OM E/OM I RFID</b>			✓	✓	✓	✓	✓	✓	✓
	LAN		✓	✓	✓	✓	✗	✗	✓
	WIEG		✓	✓	✓	✓	✗	✗	✓
	KNX		✓	✓	✓	✓	✓	✓	✓
<b>ekey home FS IN</b>			✓	✓	✓	✓	✓	✓	✓
	LAN		✓	✓	✓	✓	✗	✗	✓
	WIEG		✓	✓	✓	✓	✗	✗	✓
	KNX		✓	✓	✓	✓	✓	✓	✓
<b>ekey home FS IN RFID</b>			✓	✓	✓	✓	✓	✓	✓
	LAN		✓	✓	✓	✓	✗	✗	✓
	WIEG		✓	✓	✓	✓	✗	✗	✓
	KNX		✓	✓	✓	✓	✓	✓	✓
<b>ekey home FS IN BT</b>			✓	✓	✓	✓	✓	✓	✗
	LAN		✓	✓	✓	✓	✗	✗	✗
	WIEG		✓	✓	✓	✓	✗	✗	✗
	KNX		✓	✓	✓	✓	✓	✓	✗
<b>ekey home FS IN BT RFID</b>			✓	✓	✓	✓	✓	✓	✗
	LAN		✓	✓	✓	✓	✗	✗	✗
	WIEG		✓	✓	✓	✓	✗	✗	✗
	KNX		✓	✓	✓	✓	✓	✓	✗
<b>ekey home KP IN</b>			✓	✓	✓	✓	✓	✓	✓
	LAN		✓	✓	✓	✓	✗	✗	✓
	WIEG		✓	✓	✓	✓	✗	✗	✓
	KNX		✓	✓	✓	✓	✓	✓	✓

\*Only ekey event 1 can be triggered









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