

ekey
YOUR FINGER. YOUR KEY.

ekey finger scanners

Solutions for the electrical industry - ekey home | ekey multi

www.ekey.net

2017



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 80 employees at its 5 locations in Austria, Germany, Liechtenstein/Switzerland, Italy, and Slovenia and exports its products to over 70 countries, with exports making 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 9001:2008
- 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 at hand!



HIGHEST SECURITY

- No lost or stolen keys!
- Maximum protection against fake fingers 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!



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ekey media center

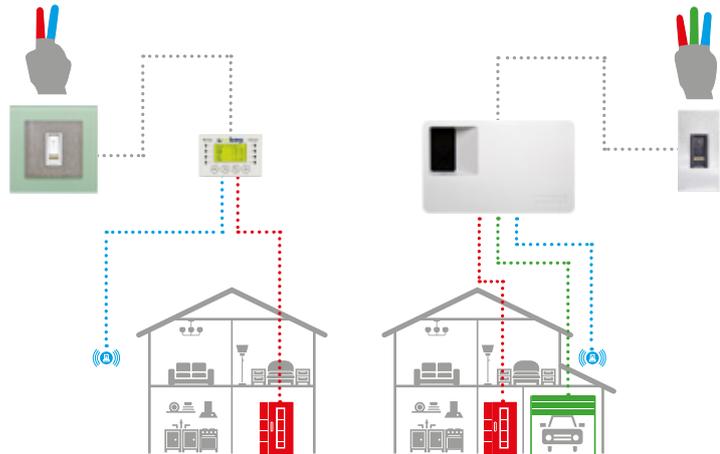
You can find all the information on our products on our website at www.ekey.net/en/media_center

ekey home

Single-point access solutions.

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

- can store up to 99 fingerprints
- can be used to 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 Bluetooth)
- optional: Card access (RFID) is possible
-> can also store up to 99 cards

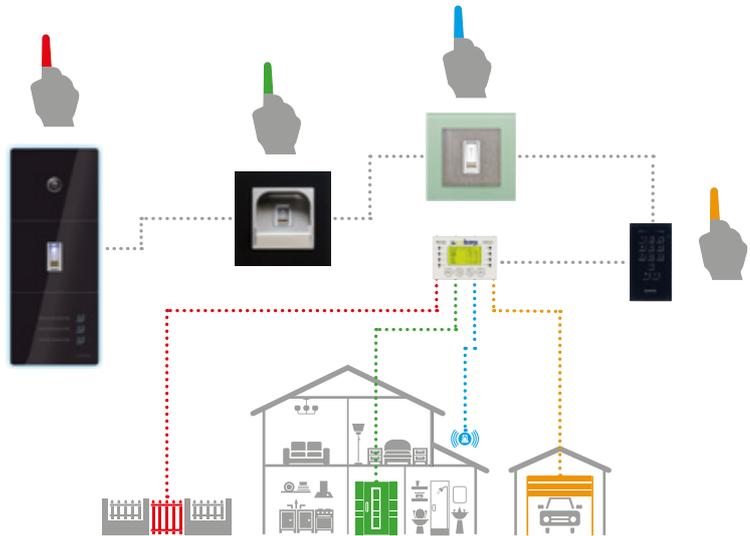


ekey multi

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 be used to control up to 4 functions
- individually programmable time slots
- access log recording 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: Card access (RFID) is possible
-> can also store up to 99 cards



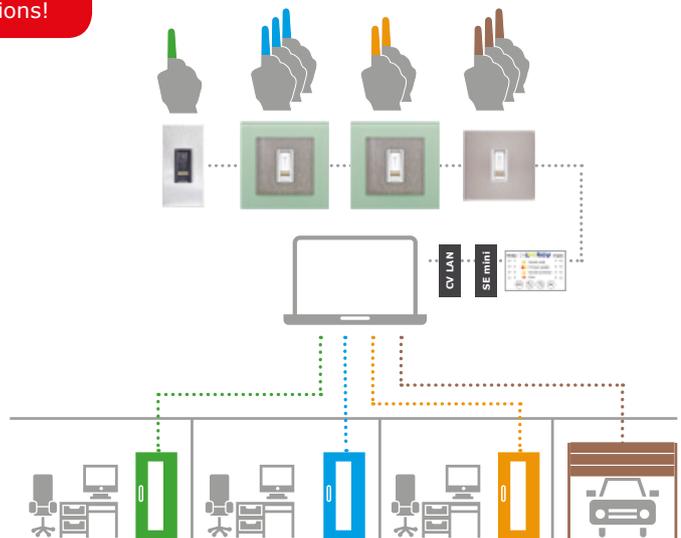
See the "ekey net" catalog for networkable access solutions!

ekey net

Network access solutions.

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

- each finger scanner* can store up to 2,000 fingerprints
- supports up to 80 finger scanners
- can be used to control up to 4 functions
- programmable time slots
- access log recording for every finger scanner
- supports cross-site administration
- central administration via PC
- calendar function
- interfaces for establishing external connections
- optional: Card access (RFID) is possible
-> can also store up to 2,000 cards



*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 solutions ekey home
- a) multi-point access solutions ekey multi



2

Select a suitable finger scanner make or makes and function (Bluetooth/RFID):

- a) Wall-Mounted (WM)
- b) Outlet-Mounted E inside a design switch frame or Outlet-Mounted I for mounting inside the door station (OM)
- c) integra and integra BT with app (IN)
- d) keypad (KP)

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) WM (wall-mounted) or DRM (DIN-rail mounted) 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 example application in the "Single family house" project on page 7).



4

Select a suitable power supply:

- a) simple wall power supply
- b) convenient DIN-rail mounted power supply inside the control cabinet
- c) outlet-mounted power supply
- d) uninterruptible power supply (UPS)

ATTENTION: A suitable power supply is often included in the scope of delivery for mounting inside door stations. Check the voltage and current needed to control the consumers (door opener, motorized lock).



5

Select a suitable interface, if required:

- a) for connection to home automation systems
- b) for connection to third-party systems



For door openers and motorized locks, please note:

- a) Although door openers 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 electronic door strike when buying a door!
- c) Use our ekey lock upgrade solution for existing doors (no wiring in the door).



ekey home

Single-point access solutions.

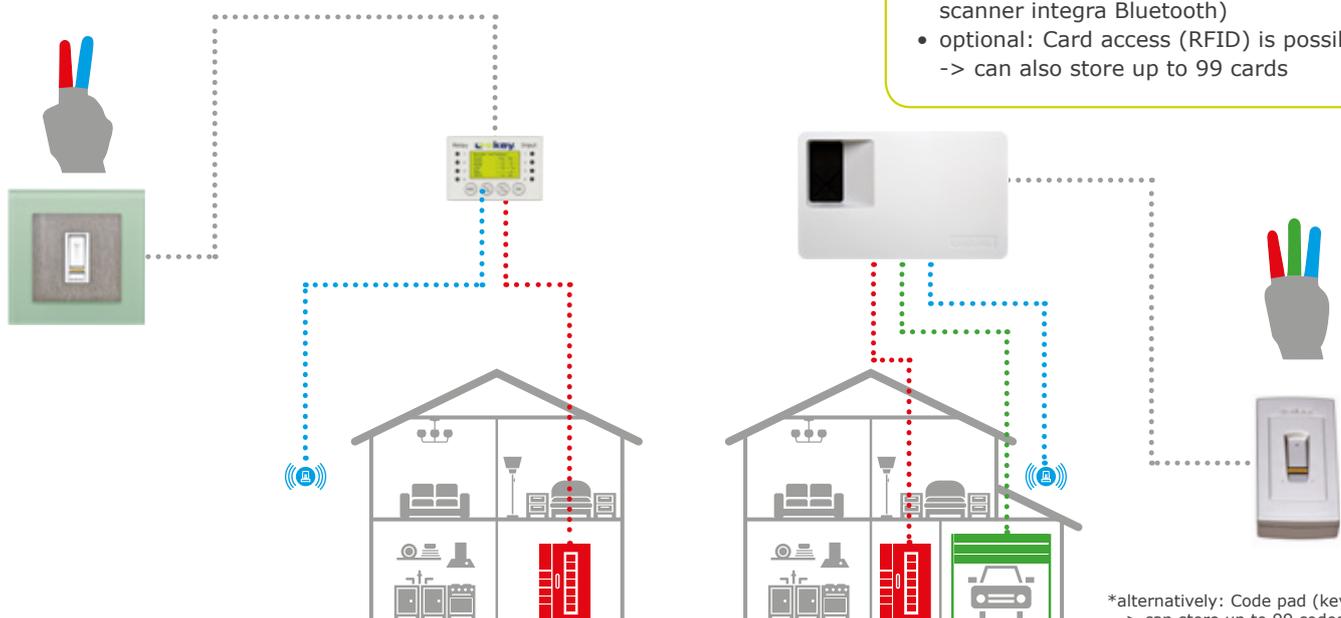
The right access solution for my private space.

ekey home is the innovative finger scanner set* for your front door or office door. The key features of the system are the ease with which it is installed and the intuitive user administration. Finger scanners are available in a variety of models to suit different areas of application.

Short facts:

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

- can store up to 99 fingerprints
- can be used to 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 Bluetooth)
- optional: Card access (RFID) is possible
-> 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 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 of the ekey finger scanner access control system functions can be set in a flash 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 affordable entry-level solution. Access rights can be saved 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
101 405	ekey home FS WM 2.0 , steel-gray
101 667	ekey home FS WM 2.0 RFID incl. 2 RFID cards , steel-gray
	<ul style="list-style-type: none"> • FAR: 1:10,000,000/FRR: 1:100 • Dimensions WxHxD: 45x81.6x60.3 mm • Power consumption: approx. 1 W • Supply voltage: 8-24 VDC • Temperature range: -25°C to +70°C • IP code: IP44 • Recommended mounting height: 135 cm (lower edge) • Display: 3 multicolor LEDs • Tamper-proof, data retained in the event of a power failure, bus termination can be deactivated on the device
101 690	ekey RFID card MIFARE DESFire EV1 2K logo , with printed ekey logo, ISO 14443A
101 692	ekey RFID card MIFARE DESFire EV1 2K WHI , white, ISO 14443A
101 691	ekey RFID fob MIFARE DESFire EV1 2K BL , black, ISO 14443A



Accessory



Part no.	Description
101 406	ekey weather shield WM 2.0 ST , brushed stainless steel
	<ul style="list-style-type: none"> • Dimensions WxHxD: 110x170x95 mm • Recommended mounting height: 130 cm (lower edge) • Scope of delivery: Weather shield ST, 4 chipboard screws 4x35, 4 screw anchors S5, 3 countersunk head screws M3x16, 3 Torx countersunk head screws M3x6 GU
101 418	ekey cover WM 2.0 ST , brushed stainless steel
	<ul style="list-style-type: none"> • Dimensions WxHxD: 89x87x103 mm • Recommended mounting height: 110 cm (lower edge) • Scope of delivery: Stainless steel housing, 4 chipboard screws, 4x35, 4 screw anchors S5, 3 countersunk head screws M3x16, 3 Torx countersunk head screws M3x6 GU





Control panel

DIN-rail mounted control panel



Part no.	Description
101 162	ekey home CP DRM 1, 1 relay
101 312	ekey home CP DRM 2, 2 relays
	<ul style="list-style-type: none"> • Dimensions WxHxD: 70x86x54 mm (4 HP) • Power consumption: approx. 1 W • Supply voltage: 8-24 VDC • Temperature range: -20°C to 70°C • IP code: IP20 • Relays: CP DRM 1, 1x potential-free CP DRM 2, 2x potential-free • Max. relay voltage, max. relay current: 42 VAC/DC; 2 A • Operation: 4 buttons
	<ul style="list-style-type: none"> • Inputs (door opener): CP DRM 1, 1x potential-free CP DRM 2, 2x potential-free • Display: LCD 106x56 pixels, 7 lines/21 characters + 2x4 status LEDs • RS-485 termination: switchable • Enroll users, delete individual users, set relay times (0-99 s), change security code, adjust LED brightness, reset, test mode, convenient backlit text display, configurable inputs • KNX compatible

Wall-mounted control panel



Part no.	Description
100 478	ekey home CP WM 1, 1 relay
100 479	ekey home CP WM 3, 3 relays
	<ul style="list-style-type: none"> • Dimensions WxHxD: 180x110x41 mm • Power consumption: approx. 1 W • Supply voltage: 9-12 VDC • Temperature range: -20°C to 70°C • IP code: IP20 • Relays: CP WM 1, 1x potential-free CP WM 3, 3x potential-free
	<ul style="list-style-type: none"> • Max. relay voltage, max. relay current: 42 VAC/DC; 5 A • Inputs (door opener): - • Display: 2x7-segment LED • Operation: 4 buttons • RS-485 termination: fixed • Enroll users, delete individual users, set relay times (0-99 s), change security code, reset



Power supply



Part no.	Description
101 700	ekey PS WPS 230 VAC/12 VDC/800 mA, wall power supply
	<ul style="list-style-type: none"> • Dimensions WxHxD: 52x78.5x45 mm • Supply voltage: 230 VAC
	<ul style="list-style-type: none"> • Output voltage, output current: 12 VDC; 800 mA • Cable length: 3.5 m
100 204	ekey PS OM 230 VAC/12 VDC/2 A, outlet-mounted power supply
	<ul style="list-style-type: none"> • Dimensions øxH: 54x31 mm • Supply voltage: 230 VAC
	<ul style="list-style-type: none"> • Output voltage, output current: 12 VDC; 2 A • Temperature range: -5°C to 50°C
100 205	ekey PS DRM 230 VAC/12 VDC/2 A, DIN-rail mounted
	<ul style="list-style-type: none"> • Dimensions WxHxD: 52.5x93x68.5 mm (3 HP) • Supply voltage: 230 VAC
	<ul style="list-style-type: none"> • Output voltage, output current: 12 VDC; 2 A • Temperature range: -10°C to 45°C • IP code: IP20
100 891	ekey PS DRM 230 VAC/24 VDC/2 A, DIN-rail mounted*
	<ul style="list-style-type: none"> • Dimensions WxHxD: 70x93x66.5 mm (4 HP) • Supply voltage: 230 VAC
	<ul style="list-style-type: none"> • Output voltage, output current: 24 VDC; 2 A • Temperature range: -5°C to 50°C

! *Important: Not compatible with ekey home CP WM 1 (100 478) and ekey home CP WM 3 (100 479).


UPS DRM

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
101 559	ekey UPS DRM 230/12 VDC/4 Ah, DIN-rail mounted
	<ul style="list-style-type: none"> • Dimensions WxHxD: UPS: 140x93x66.5 mm (8 HP) Battery: 157x93x66.5 mm (9 HP) • Supply voltage: 100-240 VAC • 2 parts: UPS (switched-mode power supply) and battery • Output voltage, output current: 12 VDC; 2 A • Temperature range: -10°C to 40°C • Function display: LED • Advantage: Replaces power supply; ensures a reliable power supply to the system for several hours. Suitable for use in conjunction with a motorized lock.
101 593	ekey UPS DRM 230/24 VDC/4 Ah, DIN-rail mounted*
	<ul style="list-style-type: none"> • Dimensions WxHxD: UPS: 210x93x66.5 mm (12 HP) Battery: 157x93x66.5 mm (9 HP) • Supply voltage: 100-240 VAC • 3 parts: UPS (switched-mode power supply) and 2x battery • Output voltage, output current: 24 VDC; 3 A • Temperature range: -10°C to 40°C • Function display: LED • Advantage: Replaces power supply; ensures a reliable power supply to the system for several hours. Suitable for use in conjunction with a motorized lock.

! *Important: Not compatible with ekey home CP WM 1 (100 478) and ekey home CP WM 3 (100 479).


Complete set

Complete set for DIN rail mounting



Part no.	Description
101 409	ekey home set WM 2.0 DRM 1, with DIN-rail mounted control panel, 1 relay
	<p>The complete set includes:</p> <ul style="list-style-type: none"> • ekey home FS WM 2.0 • ekey home CP DRM 1 • ekey PS DRM

Complete set for wall mounting



Part no.	Description
101 407	ekey home set WM 2.0 WM 1, with wall-mounted control panel, 1 relay
101 408	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"> • ekey home FS WM 2.0 • ekey home CP WM • ekey PS WPS



Interface

Interface for connecting the equipment to home automation systems



Part no.	Description	
100 460	ekey home CV LAN RS-485	
	RS-485/LAN interface for connection to external systems (e.g. KNX) with UDP protocol	Scope of delivery: LAN converter, software

"home" protocol

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



Part no.	Description	
101 719	ekey home CV KNX RS-485	
	<p>The ekey KNX converter is used to trigger functions in home automation systems based on the KNX home automation bus.</p> <ul style="list-style-type: none"> • Makeup: DIN-rail mounted • Dimensions W x H x D: 18 x 98 x 61 mm (1 HP) • Supply voltage: 12–24 VDC • Mounting type: DIN rail 	<ul style="list-style-type: none"> • RS-485 cable length: 10 m • Number of RS-485 interfaces: 1 • RS-485 protocol: ekey home • 12 events (10 free, 1 unrecognized, 1 tampering) • in addition to the relays of the control panel • specific application for ETS (ETS 5) • functions: switching, sending values, activating scenarios • assigning an event to a finger

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



Part no.	Description	
101 582	ekey home CV WIEG RS-485	
	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 CV USB RS-485 (100 433).	Scope of delivery: Wiegand converter, software



ekey finger scanner **Outlet-Mounted**

For integration in door stations of well-known manufacturers.



Finger scanner OM I



Part no.	Description
101 310	ekey home FS OM I , for integration in door stations
101 671	ekey home FS OM I RFID incl. 2 RFID cards , for integration in door stations
	<ul style="list-style-type: none"> • FAR: 1:10,000,000 • FRR: 1:100 • Dimensions WxHxD: 50.4x50.4x30.1 mm • Power consumption: approx. 1 W • Supply voltage: 8-24 VDC • Temperature range: -25°C to +70°C
	<ul style="list-style-type: none"> • Recommended mounting height: 155 cm Be sure that the device remains easy to access and operate • Display: 3 multicolor LEDs • Tamper-proof, data retained in the event of a power failure, bus termination can be deactivated on the device, compatible with many door station build-in modules, letterboxes, wall mounting sets, etc.
101 690	ekey RFID card MIFARE DESFire EV1 2K logo , with printed ekey logo, ISO 14443A
101 692	ekey RFID card MIFARE DESFire EV1 2K WHI , white, ISO 14443A
101 691	ekey RFID fob MIFARE DESFire EV1 2K BL , black, ISO 14443A



Accessory ! Important: availability of build-in modules varying from country to country!

Part no.	Description
Door station build-in modules GIRA	
 101 380	ekey Modul GIRA TX44 AL, aluminum color
101 381	ekey Modul GIRA TX44 AN, anthracite
101 382	ekey Modul GIRA TX44 PW, pure white
Door station build-in modules SIEDLE	
 101 376	ekey Modul SIEDLE Vario DG, micaceous dark gray
101 378	ekey Modul SIEDLE Vario W, white
101 379	ekey Modul SIEDLE Vario SM, silver metallic
101 858	ekey Modul SIEDLE Vario AG, anthracite gray
Door station build-in modules Elvox	
 101 552	ekey Modul Elvox 8000 series GR, gray
Door station build-in modules bticino	
 101 533	ekey Modul bticino Sfera AME, Allmetal
101 534	ekey Modul bticino Sfera AWH, Allwhite
101 535	ekey Modul bticino Sfera AST, Allstreet
101 536	ekey Modul bticino Sfera ROB, Robur
Door station build-in modules Comelit	
 101 473	ekey Modul Comelit ikall BL, black, ekey finger scanner OM I built-in
101 629	ekey Modul Comelit metal, metallic, ekey finger scanner OM I built-in

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

Well-known manufacturers build ekey finger scanners into 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

Part no.	Description
 101 148	ekey home FS OM E, for integration in ekey ModulS Siedle Vario
101 673	ekey home FS OM E RFID incl. 2 RFID cards, for integration in ekey ModulS Siedle Vario
	<ul style="list-style-type: none"> • FAR: 1:10,000,000 • FRR: 1:100 • Dimensions WxHxD: 50.4x50.4x30.1 mm • Power consumption: approx. 1 W • Supply voltage: 8-24 VDC • Temperature range: -25°C to +70°C
	<ul style="list-style-type: none"> • Recommended mounting height: 155 cm • Be sure that the device remains easy to access and operate • Display: 3 multicolor LEDs • Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device
 101 690	ekey RFID card MIFARE DESFire EV1 2K logo, with printed ekey logo, ISO 14443A
101 692	ekey RFID card MIFARE DESFire EV1 2K WHI, white, ISO 14443A
101 691	ekey RFID fob MIFARE DESFire EV1 2K BL, black, ISO 14443A

Accessory **Attention:** This accessory is only available in combination with ekey FS OM E (101 148 and 101 673)!



Part no.	Description
Build-in modules for door stations Siedle Vario flush mounted*	
101 892	ekey ModulS Siedle Vario DG, micaceous dark gray
101 893	ekey ModulS Siedle Vario W, white
101 894	ekey ModulS Siedle Vario SM, silver metallic
101 895	ekey ModulS Siedle Vario AG, anthracite gray
101 897	ekey ModulS Siedle Vario DG LED, micaceous dark gray with alarm LEDs
101 898	ekey ModulS Siedle Vario W LED, white with alarm LEDs
101 899	ekey ModulS Siedle Vario SM LED, silver metallic with alarm LEDs
101 900	ekey ModulS Siedle Vario AG LED, anthracite gray with alarm LEDs

 ***Important:** Not compatible with the Siedle Vario surface mounted model.



Control panel

DIN-rail mounted control panel



Part no.	Description
101 162	ekey home CP DRM 1, 1 relay
101 312	ekey home CP DRM 2, 2 relays
	<ul style="list-style-type: none"> • Dimensions WxHxD: 70x86x54 mm (4 HP) • Power consumption: approx. 1 W • Supply voltage: 8-24 VDC • Temperature range: -20°C to 70°C • IP code: IP20 • Relays: <ul style="list-style-type: none"> CP DRM 1, 1x potential-free CP DRM 2, 2x potential-free • Max. relay voltage, max. relay current: 42 VAC/DC; 2 A • Operation: 4 buttons
	<ul style="list-style-type: none"> • Inputs (door opener): <ul style="list-style-type: none"> CP DRM 1, 1x potential-free CP DRM 2, 2x potential-free • Display: LCD 106x56 pixels, 7 lines/21 characters + 2x4 status LEDs • RS-485 termination: switchable • Enroll users, delete individual users, set relay times (0-99 s), change security code, adjust LED brightness, reset, test mode, convenient backlit text display, configurable inputs • KNX compatible

Wall-mounted control panel



Part no.	Description
100 478	ekey home CP WM 1, 1 relay
100 479	ekey home CP WM 3, 3 relays
	<ul style="list-style-type: none"> • Dimensions WxHxD: 180x110x41 mm • Power consumption: approx. 1 W • Supply voltage: 9-12 VDC • Temperature range: -20°C to 70°C • IP code: IP20 • Relays: <ul style="list-style-type: none"> CP WM 1, 1x potential-free CP WM 3, 3x potential-free
	<ul style="list-style-type: none"> • Max. relay voltage, max. relay current: 42 VAC/DC; 5 A • Inputs (door opener): - • Display: 2x7-segment LED • Operation: 4 buttons • RS-485 termination: fixed • Enroll users, delete individual users, set relay times (0-99 s), change security code, reset



Power supply



Part no.	Description	
101 700	ekey PS WPS 230 VAC/12 VDC/800 mA , wall power supply	
	<ul style="list-style-type: none"> • Dimensions WxHxD: 52x78.5x45 mm • Supply voltage: 230 VAC 	<ul style="list-style-type: none"> • Output voltage, output current: 12 VDC; 800 mA • Cable length: 3.5 m
100 204	ekey PS OM 230 VAC/12 VDC/2 A , outlet-mounted power supply	
	<ul style="list-style-type: none"> • Dimensions øxH: 54x31 mm • Supply voltage: 230 VAC 	<ul style="list-style-type: none"> • Output voltage, output current: 12 VDC; 2 A • Temperature range: -5°C to 50°C
100 205	ekey PS DRM 230 VAC/12 VDC/2 A , DIN-rail mounted	
	<ul style="list-style-type: none"> • Dimensions WxHxD: 52.5x93x68.5 mm (3 HP) • Supply voltage: 230 VAC 	<ul style="list-style-type: none"> • Output voltage, output current: 12 VDC; 2 A • Temperature range: -10°C to 45°C • IP code: IP20
100 891	ekey PS DRM 230 VAC/24 VDC/2 A , DIN-rail mounted*	
	<ul style="list-style-type: none"> • Dimensions WxHxD: 70x93x66.5 mm (4 HP) • Supply voltage: 230 VAC 	<ul style="list-style-type: none"> • Output voltage, output current: 24 VDC; 2 A • Temperature range: -5°C to 50°C

! ***Important:** Not compatible with ekey home CP WM 1 (100 478) and ekey home CP WM 3 (100 479).



UPS DRM

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	
101 559	ekey UPS DRM 230/12 VDC/4 Ah , DIN-rail mounted	
	<ul style="list-style-type: none"> • Dimensions WxHxD: UPS: 140x93x66.5 mm (8 HP) Battery: 157x93x66.5 mm (9 HP) • Supply voltage: 100-240 VAC • 2 parts: UPS (switched-mode power supply) and battery • Output voltage, output current: 12 VDC; 2 A 	<ul style="list-style-type: none"> • Temperature range: -10°C to 40°C • Function display: LED • Advantage: Replaces power supply; ensures a reliable power supply to the system for several hours. Suitable for use in conjunction with a motorized lock.
101 593	ekey UPS DRM 230/24 VDC/4 Ah , DIN-rail mounted*	
	<ul style="list-style-type: none"> • Dimensions WxHxD: UPS: 210x93x66.5 mm (12 HP) Battery: 157x93x66.5 mm (9 HP) • Supply voltage: 100-240 VAC • 3 parts: UPS (switched-mode power supply) and 2x battery • Output voltage, output current: 24 VDC; 3 A 	<ul style="list-style-type: none"> • Temperature range: -10°C to 40°C • Function display: LED • Advantage: Replaces power supply; ensures a reliable power supply to the system for several hours. Suitable for use in conjunction with a motorized lock.

! ***Important:** Not compatible with ekey home CP WM 1 (100 478) and ekey home CP WM 3 (100 479).

Complete set



Part no.	Description
101 426	ekey home set OM I DRM 1, with DIN-rail mounted control panel, 1 relay
101 660	ekey home set OM I DRM 2, with DIN-rail mounted control panel, 2 relays
The complete set includes: <ul style="list-style-type: none"> ekey home FS OM I ekey home CP DRM - number of relays determined by version 	

Attention: A suitable power supply is often included in the scope of delivery for mounting inside door stations. Check the voltage and current needed to control the consumers (door opener, motorized lock).

Interface

Interface for connecting the equipment to home automation systems



Part no.	Description
100 460	ekey home CV LAN RS-485
	RS-485/LAN interface for connection to external systems (e.g. KNX) with UDP protocol Scope of delivery: LAN converter, software

"home" protocol

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



Part no.	Description
101 719	ekey home CV KNX RS-485
	The ekey KNX converter is used to trigger functions in home automation systems based on the KNX home automation bus. <ul style="list-style-type: none"> Makeup: DIN-rail mounted Dimensions WxHxD: 18x98x61 mm (1 HP) Supply voltage: 12–24 VDC Mounting type: DIN rail assigning an event to a finger
	<ul style="list-style-type: none"> RS-485 cable length: 10 m Number of RS-485 interfaces: 1 RS-485 protocol: ekey home 12 events (10 free, 1 unrecognized, 1 tampering) in addition to the relays of the control panel specific application for ETS (ETS 5) functions: switching, sending values, activating scenarios

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



Part no.	Description
101 582	ekey home CV WIEG RS-485
	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 CV USB RS-485 (100 433). Scope of delivery: Wiegand converter, software





ekey finger scanner **Outlet-Mounted E**

For integration into switch frames of well-known manufacturers.



Finger scanner



Part no.	Description
101 148	ekey home FS OM E , for in-wall mounting in outlet
101 673	ekey home FS OM E RFID incl. 2 RFID cards , for in-wall mounting in outlet
	<ul style="list-style-type: none"> • FAR: 1:10,000,000 • FRR: 1:100 • Dimensions WxHxD: 50.4x50.4x30.1 mm • Power consumption: approx. 1 W • Supply voltage: 8-24 VDC • Temperature range: -25°C to +70°C • IP code: IP44 (depending on the switch range)
	<ul style="list-style-type: none"> • Recommended mounting height: 155 cm Be sure that the device remains easy to access and operate • Display: 3 multicolor LEDs • 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. • Incl. bezel, mounting bracket, spacers, sealing flange
101 690	ekey RFID card MIFARE DESFire EV1 2K logo , with printed ekey logo, ISO 14443A
101 692	ekey RFID card MIFARE DESFire EV1 2K WHI , white, ISO 14443A
101 691	ekey RFID fob MIFARE DESFire EV1 2K BL , black, ISO 14443A



Accessory - Bezel

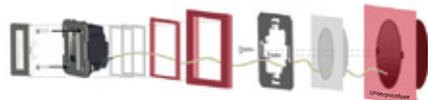


101 166	ekey bezel FS OM PW 50x50 , plastic pure white
101 167	ekey bezel FS OM AL 50x50 , plastic aluminium color
101 168	ekey bezel FS OM AN 50x50 , plastic anthracite



merten

by Schneider Electric



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

B.
Berker

JUNG

GIRA

:hager

! The ekey FS OM E has been designed and built for in-wall mounting in electric gang boxes in accordance with DIN 49073.

Cavity wall box



Electric gang box for plastering

Accessory - Frame



Part no.	Description	
101 372	ekey frame FS OM ST , brushed stainless steel*	
	<ul style="list-style-type: none"> Dimensions WxHxD: 85x85x7.2 mm 	<ul style="list-style-type: none"> Cover provides the device with IP44 protection for use outdoors on exterior rendering with max. 1.5 mm masonry graining around the electrical outlet.
101 702	ekey frame FS OM GL WHI , glass white	
101 703	ekey frame FS OM GL BL , glass black	
101 704	ekey frame FS OM GL MI , glass mint	
	<ul style="list-style-type: none"> Dimensions WxHxD: 100x100x7.5 mm 	<ul style="list-style-type: none"> Cover provides the device with IP44 protection for use outdoors on exterior rendering with max. 1.5 mm masonry graining around the electrical outlet.
101 705	ekey frame FS OM503 GL WHI , glass white	
101 706	ekey frame FS OM503 GL BL , glass black	
101 707	ekey frame FS OM503 GL MI , glass mint	
	<ul style="list-style-type: none"> Dimensions WxHxD: 125x100x7.5 mm 	<ul style="list-style-type: none"> Cover provides the device with IP44 protection for use outdoors on exterior rendering with max. 1.5 mm masonry graining around the 503 electrical outlet.

! *Attention: RFID function is not possible with ekey frame FS OM ST (101 372)!

Accessory - Mounting frame



Part no.	Description	
101 779	ekey mounting frame FS OM GL WHI , glass white	
101 780	ekey mounting frame FS OM GL AN , glass anthracite	
101 781	ekey mounting frame FS OM GL MI , glass mint	
101 785	ekey mounting frame FS OM GL MI LED , glass mint with alarm LEDs	
101 786	ekey mounting frame FS OM GL AN LED , glass anthracite with alarm LEDs	
101 787	ekey mounting frame FS OM GL WHI LED , glass white with alarm LEDs	
	<ul style="list-style-type: none"> Dimensions WxHxD: Mounting frame: 105x105x54 mm Flush mount back box: 73x73x57 mm Material: Glass, plastic 	<ul style="list-style-type: none"> Minimum mounting height: 100 cm Scope of delivery: Mounting frame and flush mount back box. A standard flush mount back box is not suitable.
101 838	ekey cavity wall box WHI , for mounting frame FS OM	
	<ul style="list-style-type: none"> Dimensions WxHxD: Cavity wall box: 83x83x65mm 	Material: Plastic



Control panel

DIN-rail mounted control panel



Part no.	Description
101 162	ekey home CP DRM 1 , 1 relay
101 312	ekey home CP DRM 2 , 2 relays
	<ul style="list-style-type: none"> • Dimensions WxHxD: 70x86x54 mm (4 HP) • Power consumption: approx. 1 W • Supply voltage: 8-24 VDC • Temperature range: -20°C to 70°C • IP code: IP20 • Relays: CP DRM 1, 1x potential-free CP DRM 2, 2x potential-free • Max. relay voltage, max. relay current: 42 VAC/DC; 2 A • Operation: 4 buttons
	<ul style="list-style-type: none"> • Inputs (door opener): CP DRM 1, 1x potential-free CP DRM 2, 2x potential-free • Display: LCD 106x56 pixels, 7 lines/21 characters + 2x4 status LEDs • RS-485 termination: switchable • Enroll users, delete individual users, set relay times (0-99 s), change security code, adjust LED brightness, reset, test mode, convenient backlit text display, configurable inputs • KNX compatible

Wall-mounted control panel



Part no.	Description
100 478	ekey home CP WM 1 , 1 relay
100 479	ekey home CP WM 3 , 3 relays
	<ul style="list-style-type: none"> • Dimensions WxHxD: 180x110x41 mm • Power consumption: approx. 1 W • Supply voltage: 9-12 VDC • Temperature range: -20°C to 70°C • IP code: IP20 • Relays: CP WM 1, 1x potential-free CP WM 3, 3x potential-free
	<ul style="list-style-type: none"> • Max. relay voltage, max. relay current: 42 VAC/DC; 5 A • Inputs (door opener): - • Display: 2x7-segment LED • Operation: 4 buttons • RS-485 termination: fixed • Enroll users, delete individual users, set relay times (0-99 s), change security code, reset

Power supply

Part no.	Description
 101 700	ekey PS WPS 230 VAC/12 VDC/800 mA , wall power supply <ul style="list-style-type: none"> • Dimensions WxHxD: 52x78.5x45 mm • Supply voltage: 230 VAC • Output voltage, output current: 12 VDC; 800 mA • Cable length: 3.5 m
 100 204	ekey PS OM 230 VAC/12 VDC/2 A , outlet-mounted power supply <ul style="list-style-type: none"> • Dimensions øxH: 54x31 mm • Supply voltage: 230 VAC • Output voltage, output current: 12 VDC; 2 A • Temperature range: -5°C to 50°C
 100 205	ekey PS DRM 230 VAC/12 VDC/2 A , DIN-rail mounted <ul style="list-style-type: none"> • Dimensions WxHxD: 52.5x93x68.5 mm (3 HP) • Supply voltage: 230 VAC • Output voltage, output current: 12 VDC; 2 A • Temperature range: -10°C to 45°C • IP code: IP20
 100 891	ekey PS DRM 230 VAC/24 VDC/2 A , DIN-rail mounted* <ul style="list-style-type: none"> • Dimensions WxHxD: 70x93x66.5 mm (4 HP) • Supply voltage: 230 VAC • Output voltage, output current: 24 VDC; 2 A • Temperature range: -5°C to 50°C

! *Important: Not compatible with ekey home CP WM 1 (100 478) and ekey home CP WM 3 (100 479).

UPS DRM

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
 101 559	ekey UPS DRM 230/12 VDC/4 Ah , DIN-rail mounted <ul style="list-style-type: none"> • Dimensions WxHxD: UPS: 140x93x66.5 mm (8 HP) Battery: 157x93x66.5 mm (9 HP) • Supply voltage: 100-240 VAC • 2 parts: UPS (switched-mode power supply) and battery • Output voltage, output current: 12 VDC; 2 A • Temperature range: -10°C to 40°C • Function display: LED • Advantage: Replaces power supply; ensures a reliable power supply to the system for several hours. Suitable for use in conjunction with a motorized lock.
 101 593	ekey UPS DRM 230/24 VDC/4 Ah , DIN-rail mounted* <ul style="list-style-type: none"> • Dimensions WxHxD: UPS: 210x93x66.5 mm (12 HP) Battery: 157x93x66.5 mm (9 HP) • Supply voltage: 100-240 VAC • 3 parts: UPS (switched-mode power supply) and 2x battery • Output voltage, output current: 24 VDC; 3 A • Temperature range: -10°C to 40°C • Function display: LED • Advantage: Replaces power supply; ensures a reliable power supply to the system for several hours. Suitable for use in conjunction with a motorized lock.

! *Important: Not compatible with ekey home CP WM 1 (100 478) and ekey home CP WM 3 (100 479).

Complete set

Part no.	Description
 101 165	ekey home set OM E DRM 1 , with DIN-rail mounted control panel, 1 relay <p>The complete set includes:</p> <ul style="list-style-type: none"> • ekey home FS OM E • ekey home CP DRM 1 • ekey PS DRM • ekey bezel OM PW



Interface

Interface for connecting the equipment to home automation systems



Part no.	Description	
100 460	ekey home CV LAN RS-485	
	RS-485/LAN interface for connection to external systems (e.g. KNX) with UDP protocol	Scope of delivery: LAN converter, software

"home" protocol

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



Part no.	Description	
101 719	ekey home CV KNX RS-485	
	<p>The ekey KNX converter is used to trigger functions in home automation systems based on the KNX home automation bus.</p> <ul style="list-style-type: none"> • Makeup: DIN-rail mounted • Dimensions WxHxD: 18x98x61 mm (1 HP) • Supply voltage: 12-24 VDC • Mounting type: DIN rail 	<ul style="list-style-type: none"> • RS-485 cable length: 10 m • Number of RS-485 interfaces: 1 • RS-485 protocol: ekey home • 12 events (10 free, 1 unrecognized, 1 tampering) • in addition to the relays of the control panel • specific application for ETS (ETS 5) • functions: switching, sending values, activating scenarios • assigning an event to a finger

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



Part no.	Description	
101 582	ekey home CV WIEG RS-485	
	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 CV USB RS-485 (100 433).	Scope of delivery: Wiegand converter, software





ekey finger scanner **integra**

For wall/outlet mounting with stainless steel accessories.



Finger scanner



Part no.	Description
101 794	ekey home FS IN 2.0 , incl. 8 m connection cable
101 795	ekey home FS IN 2.0 Bluetooth , incl. 8 m connection cable
101 797	ekey home FS IN 2.0 RFID incl. 2 RFID cards , incl. 8 m connection cable
101 796	ekey home FS IN 2.0 Bluetooth RFID incl. 2 RFID cards , incl. 8 m connection cable
	<ul style="list-style-type: none"> • FAR: 1:10,000,000 • FRR: 1:100 • Dimensions WxHxD: Housing 43.6x89x17.3 mm with design element: 45.5x91.5x17.3 mm • Power consumption: approx. 1 W • Supply voltage: 8-24 VDC • Temperature range: -25°C to +70°C • IP code: IP54 • Recommended mounting height: 155 cm • Display: 3 multicolor LEDs • Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device • Design element not contained within scope of delivery
101 690	ekey RFID card MIFARE DESFire EV1 2K logo , with printed ekey logo, ISO 14443A
101 692	ekey RFID card MIFARE DESFire EV1 2K WHI , white, ISO 14443A
101 691	ekey RFID fob MIFARE DESFire EV1 2K BL , black, ISO 14443A



Accessory - Design element



Part no.	Description
Design elements FS IN	
101 254	ekey design element FS IN ST, stainless steel
101 305	ekey design element FS IN BL, black
101 304	ekey design element FS IN WHI, white
101 303	ekey design element FS IN GO, gold
Design element FS IN RFID	
101 688	ekey design element FS IN ST RFID, stainless steel

Notice: Special colors on request!

Accessory - Mounting frame



Part no.	Description
101 716	ekey mounting frame FS IN GL AN, glass anthracite
101 717	ekey mounting frame FS IN GL WHI, glass white
101 801	ekey mounting frame FS IN GL AN LED, glass anthracite with alarm LEDs
101 802	ekey mounting frame FS IN GL WHI LED, glass white with alarm LEDs
<ul style="list-style-type: none"> • Dimensions WxHxD: 53.5x127x24 mm • Material: Stainless steel, glass • Minimum mounting height: 155 cm 	

Accessory - Mounting frame with bell module



Part no.	Description
101 803	ekey mounting frame FS IN BeM GL WHI, glass white
101 804	ekey mounting frame FS IN BeM GL AN, glass anthracite
101 807	ekey mounting frame FS IN BeM GL WHI LED, glass white with alarm LEDs
101 808	ekey mounting frame FS IN BeM GL AN LED, glass anthracite with alarm LEDs
<ul style="list-style-type: none"> • Dimensions WxHxD: 53.5x171x24 mm • Material: Stainless steel, glass • 2 buttons to trigger a bell electronically 	

Accessory - Wall mounting set



Part no.	Description
101 302	ekey wall mounting set FS IN ST, stainless steel
101 301	ekey wall mounting set FS IN ST LED, stainless steel with alarm LEDs
Housing: WxHxD: 60x122x36 mm	
Faceplate WxHxD: 96x142x2 mm	
101 147	ekey weather shield FS IN ST, stainless steel incl. wall mounting set
Housing WxHxD: 60x122x36 mm	
Faceplate WxHxD: 126x142x65 mm	
101 300	ekey flush mount back box FS IN, for flush-mounting installation, 0.5 mm sheet
Housing WxHxD: 42x87x25 mm	



Control panel

DIN-rail mounted control panel



Part no.	Description
101 162	ekey home CP DRM 1 , 1 relay
101 312	ekey home CP DRM 2 , 2 relays
	<ul style="list-style-type: none"> • Dimensions WxHxD: 70x86x54 mm (4 HP) • Power consumption: approx. 1 W • Supply voltage: 8-24 VDC • Temperature range: -20°C to 70°C • IP code: IP20 • Relays: CP DRM 1, 1x potential-free CP DRM 2, 2x potential-free • Max. relay voltage, max. relay current: • 42 VAC/DC; 2 A • Operation: 4 buttons
	<ul style="list-style-type: none"> • Inputs (door opener): CP DRM 1, 1x potential-free CP DRM 2, 2x potential-free • Display: LCD 106x56 pixels, 7 lines/21 characters + 2x4 status LEDs • RS-485 termination: switchable • Enroll users, delete individual users, set relay times (0-99 s), change security code, adjust LED brightness, reset, test mode, convenient backlit text display, configurable inputs • KNX compatible

Wall-mounted control panel



Part no.	Description
100 478	ekey home CP WM 1 , 1 relay
100 479	ekey home CP WM 3 , 3 relays
	<ul style="list-style-type: none"> • Dimensions WxHxD: 180x110x41 mm • Power consumption: approx. 1 W • Supply voltage: 9-12 VDC • Temperature range: -20°C to 70°C • IP code: IP20 • Relays: CP WM 1, 1x potential-free CP WM 3, 3x potential-free
	<ul style="list-style-type: none"> • Max. relay voltage, max. relay current: 42 VAC/DC; 5 A • Inputs (door opener): - • Display: 2x7-segment LED • Operation: 4 buttons • RS-485 termination: fixed • Functions: Enroll users, delete individual users, set relay times (0-99 s), change security code, reset

Control panel mini



Part no.	Description
101 626	ekey home CP mini 1 , 1 relay
101 770	ekey home CP mini 2 , 2 relays
	<ul style="list-style-type: none"> • Dimensions WxHxD: 25x60x42 mm (1 HP) • Power consumption: approx. 1 W • Supply voltage: 8-24 VDC • Temperature range: -20°C to 70°C • IP code: IP20 • normally open contact (NO/C)
	<ul style="list-style-type: none"> • Relays: CP mini 1, 1x potential-free CP mini 2, 2x potential-free • Inputs (door opener): 1x potential-free • Max. relay voltage, max. relay current: 42 VAC/DC; 2 A • Reset button on the control panel



Power supply



Part no.	Description	
101 700	ekey PS WPS 230 VAC/12 VDC/800 mA , wall power supply	
	<ul style="list-style-type: none"> • Dimensions WxHxD: 52x78.5x45 mm • Supply voltage: 230 VAC 	<ul style="list-style-type: none"> • Output voltage, output current: 12 VDC; 800 mA • Cable length: 3.5 m
100 204	ekey PS OM 230 VAC/12 VDC/2 A , outlet-mounted power supply	
	<ul style="list-style-type: none"> • Dimensions øxH: 54x31 mm • Supply voltage: 230 VAC 	<ul style="list-style-type: none"> • Output voltage, output current: 12 VDC; 2 A • Temperature range: -5°C to 50°C
100 205	ekey PS DRM 230 VAC/12 VDC/2 A , DIN-rail mounted	
	<ul style="list-style-type: none"> • Dimensions WxHxD: 52.5x93x68.5 mm (3 HP) • Supply voltage: 230 VAC 	<ul style="list-style-type: none"> • Output voltage, output current: 12 VDC; 2 A • Temperature range: -10°C to 45°C • IP code: IP20
100 891	ekey PS DRM 230 VAC/24 VDC/2 A , DIN-rail mounted*	
	<ul style="list-style-type: none"> • Dimensions WxHxD: 70x93x66.5 mm (4 HP) • Supply voltage: 230 VAC 	<ul style="list-style-type: none"> • Output voltage, output current: 24 VDC; 2 A • Temperature range: -5°C to 50°C

! ***Important:** Not compatible with ekey home CP WM 1 (100 478) and ekey home CP WM 3 (100 479).



UPS DRM

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	
101 559	ekey UPS DRM 230/12 VDC/4 Ah , DIN-rail mounted	
	<ul style="list-style-type: none"> • Dimensions WxHxD: UPS: 140x93x66.5 mm (8 HP) Battery: 157x93x66.5 mm (9 HP) • Supply voltage: 100-240 VAC • 2 parts: UPS (switched-mode power supply) and battery • Output voltage, output current: 12 VDC; 2 A 	<ul style="list-style-type: none"> • Temperature range: -10°C to 40°C • Function display: LED • Advantage: Replaces power supply; ensures a reliable power supply to the system for several hours. Suitable for use in conjunction with a motorized lock.
101 593	ekey UPS DRM 230/24 VDC/4 Ah , DIN-rail mounted*	
	<ul style="list-style-type: none"> • Dimensions WxHxD: UPS: 210x93x66.5 mm (12 HP) Battery: 157x93x66.5 mm (9 HP) • Supply voltage: 100-240 VAC • 3 parts: UPS (switched-mode power supply) and 2x battery • Output voltage, output current: 24 VDC; 3 A 	<ul style="list-style-type: none"> • Temperature range: -10°C to 40°C • Function display: LED • Advantage: Replaces power supply; ensures a reliable power supply to the system for several hours. Suitable for use in conjunction with a motorized lock.

! ***Important:** Not compatible with ekey home CP WM 1 (100 478) and ekey home CP WM 3 (100 479).



Complete set



Part no.	Description
101 313	ekey home set IN 2.0 DRM 1 , with DIN-rail mounted control panel for, 1 relay
The complete set includes: <ul style="list-style-type: none"> • ekey home FS IN 2.0 E • ekey design element stainless steel • 8 m connection cable • ekey home CP DRM 1 • ekey PS DRM 230 VAC/12 VDC/2 A 	



Part no.	Description
101 583	ekey home set IN 2.0 BT mini 1 , with control panel mini, 1 relay
The complete set includes: <ul style="list-style-type: none"> • ekey home FS IN 2.0 BT • ekey design element stainless steel • 8 m connection cable • ekey home CP mini 1 • ekey PS DRM 230 VAC/12 VDC/2 A 	



Part no.	Description
101 287	ekey home set IN 2.0 WM 1 , with wall-mounted control panel, 1 relay
The complete set includes: <ul style="list-style-type: none"> • ekey home FS IN 2.0 E • ekey design element stainless steel • 8 m connection cable • ekey home CP WM 1 • ekey PS WPS 230 VAC/12 VDC/800 mA 	



Part no.	Description
101 863	ekey home set IN BT RFID mini 1 GL AN , with control panel mini, 1 relay
The complete set includes: <ul style="list-style-type: none"> • ekey home FS IN 2.0 BT RFID incl. mounting frame FS IN GL AN • 8 m connection cable • ekey home CP mini 1 • ekey PS WPS 230 VAC/12 VDC/800 mA 	



Part no.	Description
101 864	ekey home set IN BT RFID mini 1 GL WHI , with control panel mini, 1 relay
The complete set includes: <ul style="list-style-type: none"> • ekey home FS IN 2.0 BT RFID incl. mounting frame FS IN GL WHI • 8 m connection cable • ekey home CP mini 1 • ekey PS WPS 230 VAC/12 VDC/800 mA 	



<i>Part no.</i>	<i>Description</i>
101 865	ekey home set IN 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"> • ekey home FS IN 2.0 BT RFID incl. mounting frame FS IN BeM GL AN • 8 m connection cable • ekey home CP mini 1 • ekey PS WPS 230 VAC/12 VDC/800 mA 	



<i>Part no.</i>	<i>Description</i>
101 866	ekey home set IN 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"> • ekey home FS IN 2.0 BT RFID incl. mounting frame FS IN BeM GL WHI • 8 m connection cable • ekey home CP mini 1 • ekey PS WPS 230 VAC/12 VDC/800 mA 	





Interface

Interface for connecting the equipment to home automation systems



Part no.	Description	
100 460	ekey home CV LAN RS-485	
	RS-485/LAN interface for connection to external systems (e.g. KNX) with UDP protocol	Scope of delivery: LAN converter, software

"home" protocol

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



Part no.	Description	
101 719	ekey home CV KNX RS-485	
	<p>The ekey KNX converter is used to trigger functions in home automation systems based on the KNX home automation bus.</p> <ul style="list-style-type: none"> • Makeup: DIN-rail mounted • Dimensions WxHxD: 18x98x61 mm (1 HP) • Supply voltage: 12–24 VDC • Mounting type: DIN rail 	<ul style="list-style-type: none"> • RS-485 cable length: 10 m • Number of RS-485 interfaces: 1 • RS-485 protocol: ekey home • 12 events (10 free, 1 unrecognized, 1 tampering) • in addition to the relays of the control panel • specific application for ETS (ETS 5) • functions: switching, sending values, activating scenarios • assigning an event to a finger

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



Part no.	Description	
101 582	ekey home CV WIEG RS-485	
	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 CV USB RS-485 (100 433).	Scope of delivery: Wiegand converter, software



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 authorization for defined access
- Finger enrollment is controlled 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

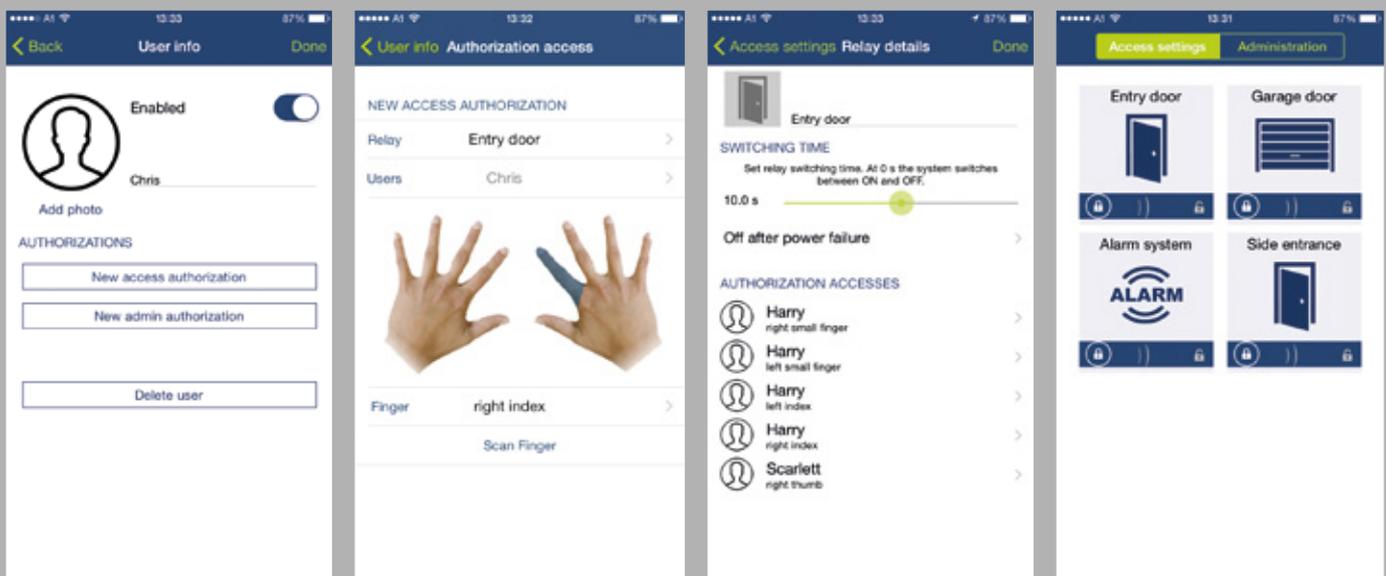


Google Play Store



App Store

ekey home app – fool-proof menu navigation:





ekey keypad integra

The alternative to the finger scanner.



Code pad



Part no.	Description
101 809	ekey home KP IN 2.0 , incl. 8 m connection cable
	<ul style="list-style-type: none"> • Keypad: capacitive touchpad • Dimensions WxHxD: 51.7x97.1x21.4 mm • Power consumption: approx. 1 W • Supply voltage: 8-24VDC • Temperature range: -25°C to +70°C • IP code: IP54
	<ul style="list-style-type: none"> • Display: 3 multicolor LEDs • 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 back-lighting (configurable) • Design element not contained within scope of delivery

Accessory - Design element



Part no.	Description
101 677	ekey design element KP IN GL SG, glass stainless steel gray
101 678	ekey design element KP IN GL WHI, glass white
101 679	ekey design element KP IN GL AN, glass anthracite

Accessory - Mounting frame



Part no.	Description
101 714	ekey mounting frame KP GL AN, glass anthracite
101 715	ekey mounting frame KP GL WHI, glass white
101 799	ekey mounting frame KP GL AN LED, glass anthracite with alarm LEDs
101 800	ekey mounting frame KP GL WHI LED, glass white with alarm LEDs
<ul style="list-style-type: none"> • Dimensions WxHxD: 53.5x127x24 mm • Material: Stainless steel, glass 	

Accessory - Mounting frame with bell module



Part no.	Description
101 782	ekey mounting frame KP BM GL AN, glass anthracite
101 783	ekey mounting frame KP BM GL WHI, glass white
101 805	ekey mounting frame KP BM GL WHI LED, glass white with alarm LEDs
101 806	ekey mounting frame KP BM GL AN LED, glass anthracite with alarm LEDs
<ul style="list-style-type: none"> • Dimensions WxHxD: 53.5x171x24 mm • Material: Stainless steel, glass • 2 buttons to trigger a bell electronically 	

Accessory - Wall mounting set



Part no.	Description
101 302	ekey wall mounting set FS IN ST, stainless steel
101 301	ekey wall mounting set FS IN ST LED, stainless steel with alarm LEDs
Housing: WxHxD: 60x122x36 mm Faceplate WxHxD: 96x142x2 mm	
101 147	ekey weather shield FS IN ST, stainless steel incl. wall mounting set
Housing WxHxD: 60x122x36 mm Faceplate WxHxD: 126x142x65 mm	
101 300	ekey flush mount back box FS IN, for flush-mounting installation, 0.5 mm sheet
Housing WxHxD: 42x87x25 mm	



Control panel

DIN-rail mounted control panel



Part no.	Description
101 162	ekey home CP DRM 1 , 1 relay
101 312	ekey home CP DRM 2 , 2 relays
	<ul style="list-style-type: none"> • Dimensions WxHxD: 70x86x54 mm (4 HP) • Power consumption: approx. 1 W • Supply voltage: 8-24 VDC • Temperature range: -20°C to 70°C • IP code: IP20 • Relays: CP DRM 1, 1x potential-free CP DRM 2, 2x potential-free • Max. relay voltage, max. relay current: 42 VAC/DC; 2 A • Operation: 4 buttons
	<ul style="list-style-type: none"> • Inputs (door opener): CP DRM 1, 1x potential-free CP DRM 2, 2x potential-free • Display: LCD 106x56 pixels, 7 lines/21 characters + 2x4 status LEDs • RS-485 termination: switchable • Enroll users, delete individual users, set relay times (0-99 s), change security code, adjust LED brightness, reset, test mode, convenient backlit text display, configurable inputs • KNX compatible

Wall-mounted control panel



Part no.	Description
100 478	ekey home CP WM 1 , 1 relay
100 479	ekey home CP WM 3 , 3 relays
	<ul style="list-style-type: none"> • Dimensions WxHxD: 180x110x41 mm • Power consumption: approx. 1 W • Supply voltage: 9-12 VDC • Temperature range: -20°C to 70°C • IP code: IP20 • Relays: CP WM 1, 1x potential-free CP WM 3, 3x potential-free
	<ul style="list-style-type: none"> • Max. relay voltage, max. relay current: 42 VAC/DC; 5 A • Inputs (door opener): - • Display: 2x7-segment LED • Operation: 4 buttons • RS-485 termination: fixed • Functions: Enroll users, delete individual users, set relay times (0-99 s), change security code, reset

Control panel mini



Part no.	Description
101 626	ekey home CP mini 1 , 1 relay
101 770	ekey home CP mini 2 , 2 relays
	<ul style="list-style-type: none"> • Dimensions WxHxD: 25x60x42 mm (1 HP) • Power consumption: approx. 1 W • Supply voltage: 8-24 VDC • Temperature range: -20°C to 70°C • IP code: IP20 • normally open contact (NO/C)
	<ul style="list-style-type: none"> • Relays: CP mini 1, 1x potential-free CP mini 2, 2x potential-free • Inputs (door opener): 1x potential-free • Max. relay voltage, max. relay current: 42 VAC/DC; 2 A • Reset button on the control panel

Power supply



Part no.	Description	
101 700	ekey PS WPS 230 VAC/12 VDC/800 mA , wall power supply	
	<ul style="list-style-type: none"> Dimensions WxHxD: 52x78.5x45 mm Supply voltage: 230 VAC 	<ul style="list-style-type: none"> Output voltage, output current: 12 VDC; 800 mA Cable length: 3.5 m
100 204	ekey PS OM 230 VAC/12 VDC/2 A , outlet-mounted power supply	
	<ul style="list-style-type: none"> Dimensions øxH: 54x31 mm Supply voltage: 230 VAC 	<ul style="list-style-type: none"> Output voltage, output current: 12 VDC; 2 A Temperature range: -5°C to 50°C
100 205	ekey PS DRM 230 VAC/12 VDC/2 A , DIN-rail mounted	
	<ul style="list-style-type: none"> Dimensions WxHxD: 52.5x93x68.5 mm (3 HP) Supply voltage: 230 VAC 	<ul style="list-style-type: none"> Output voltage, output current: 12 VDC; 2 A Temperature range: -10°C to 45°C IP code: IP20
100 891	ekey PS DRM 230 VAC/24 VDC/2 A , DIN-rail mounted*	
	<ul style="list-style-type: none"> Dimensions WxHxD: 70x93x66.5 mm (4 HP) Supply voltage: 230 VAC 	<ul style="list-style-type: none"> Output voltage, output current: 24 VDC; 2 A Temperature range: -5°C to 50°C

! *Important: Not compatible with ekey home CP WM 1 (100 478) and ekey home CP WM 3 (100 479).

UPS DRM

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	
101 559	ekey UPS DRM 230/12 VDC/4 Ah , DIN-rail mounted	
	<ul style="list-style-type: none"> Dimensions WxHxD: UPS: 140x93x66.5 mm (8 HP) Battery: 157x93x66.5 mm (9 HP) Supply voltage: 100-240 VAC 2 parts: UPS (switched-mode power supply) and battery Output voltage, output current: 12 VDC; 2 A 	<ul style="list-style-type: none"> Temperature range: -10°C to 40°C Function display: LED Advantage: Replaces power supply; ensures a reliable power supply to the system for several hours. Suitable for use in conjunction with a motorized lock.
101 593	ekey UPS DRM 230/24 VDC/4 Ah , DIN-rail mounted*	
	<ul style="list-style-type: none"> Dimensions WxHxD: UPS: 210x93x66.5 mm (12 HP) Battery: 157x93x66.5 mm (9 HP) Supply voltage: 100-240 VAC 3 parts: UPS (switched-mode power supply) and 2x battery Output voltage, output current: 24 VDC; 3 A 	<ul style="list-style-type: none"> Temperature range: -10°C to 40°C Function display: LED Advantage: Replaces power supply; ensures a reliable power supply to the system for several hours. Suitable for use in conjunction with a motorized lock.

! *Important: Not compatible with ekey home CP WM 1 (100 478) and ekey home CP WM 3 (100 479).

Complete set



Part no.	Description	
101 584	ekey home set keypad mini 1 , with control panel mini 1, 1 relay	
	<p>The complete set includes:</p>	<ul style="list-style-type: none"> ekey home KP IN 2.0 incl. ekey design element KP IN GL AN and 8 m connection cable ekey home CP mini 1 ekey PS DRM 230 VAC/12 VDC/2 A



ekey multi

Multi-point access solutions.

The ideal solution for private homes and companies.

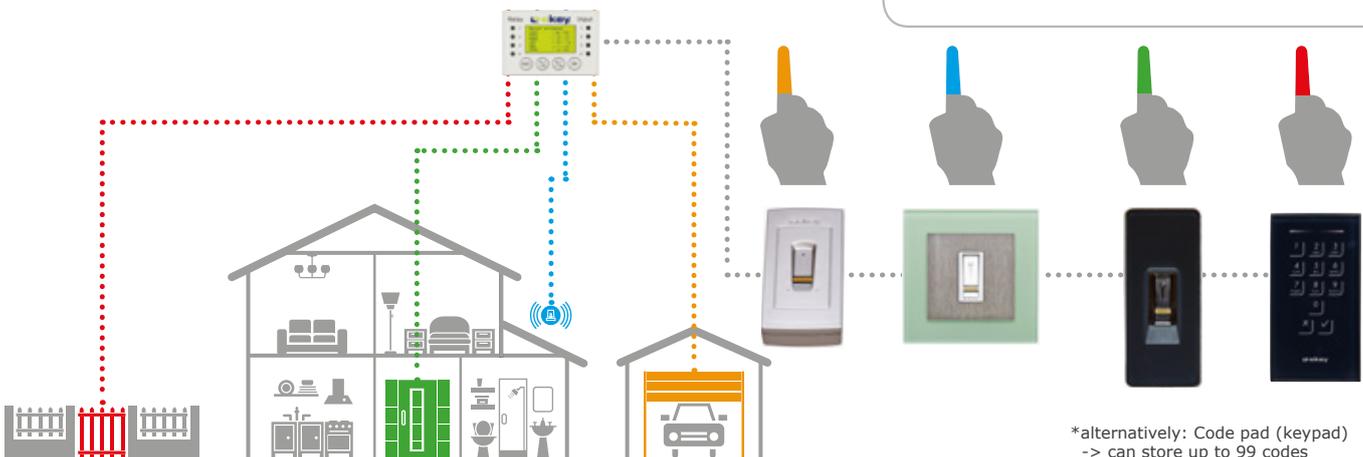
ekey multi is a revolutionary access control system which can be used for the administration of up to 4 finger scanners* on a small network. What makes ekey multi really special is that it is programmed directly on an associated control panel without the need for a PC.

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

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 be used to control up to 4 functions
- individually programmable time slots
- access log recording 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: Card access (RFID) is possible
-> can also store up to 99 cards



*alternatively: Code pad (keypad)
-> can store up to 99 codes

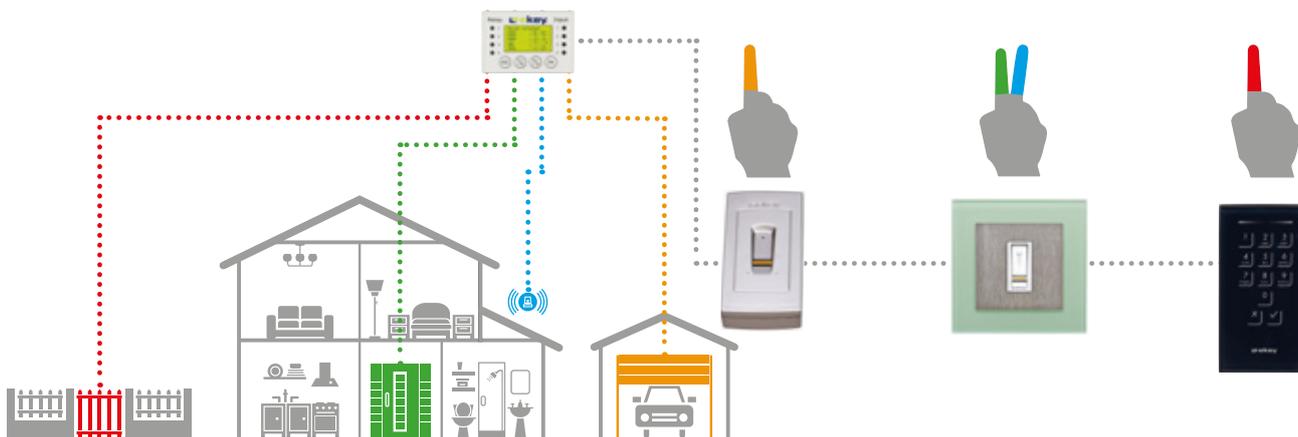


Example: Single family house

Customer requirements:

The customer wants to use ekey multi and finger scanners 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 1–4 suitable devices according to make and function (Bluetooth/RFID):

- a) Wall-Mounted (WM)
- b) Outlet-Mounted E inside a design switch frame or Outlet-Mounted I for for mounting inside the door station (OM)
- c) integra (IN)
- d) keypad (KP)

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



2

Select the ekey multi control panel!



3

Select a suitable power supply:

- a) outlet-mounted power supply
- b) convenient DIN-rail mounted power supply inside the control cabinet
- c) uninterruptible power supply (UPS)

⚠ ATTENTION: A suitable power supply is often included in the scope of delivery for mounting inside door stations. Check the voltage and current needed to control the consumers (door opener, motorized lock). The scope of delivery for motorized locks usually includes a power supply.



4

Select a suitable interface, if required:

- a) for connection to home automation systems
- b) for connection to third-party systems



For door openers and motorized locks, please note:

- a) Although door openers 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 electronic door strike when buying a door!
- c) Use our ekey lock upgrade solution for existing doors (no wiring in the door).

Step 1: Select 1-4 suitable finger scanners.



Finger scanner Wall-Mounted



Part no.	Description
101 405	ekey home FS WM 2.0 , steel-gray
101 667	ekey home FS WM 2.0 RFID incl. 2 RFID cards , steel-gray
	<ul style="list-style-type: none"> • FAR: 1:10,000,000/FRR: 1:100 • Dimensions WxHxD: 45x81.6x60.3 mm • Power consumption: approx. 1 W • Supply voltage: 8-24 VDC • Temperature range: -25°C to +70°C • IP code: IP44 • Recommended mounting height: 135 cm (lower edge) • Display: 3 multicolor LEDs • Tamper-proof, data retained in the event of a power failure, bus termination can be deactivated on the device
101 690	ekey RFID card MIFARE DESFire EV1 2K logo , with printed ekey logo, ISO 14443A
101 692	ekey RFID card MIFARE DESFire EV1 2K WHI , white, ISO 14443A
101 691	ekey RFID fob MIFARE DESFire EV1 2K BL , black, ISO 14443A



Accessory



Part no.	Description
101 406	ekey weather shield WM 2.0 ST , brushed stainless steel
	<ul style="list-style-type: none"> • Dimensions WxHxD: 110x170x95 mm • Recommended mounting height: 130 cm (lower edge) • Scope of delivery: Weather shield ST, 4 chipboard screws 4x35, 4 screw anchors S5, 3 countersunk head screws M3x16, 3 Torx countersunk head screws M3x6 GU
101 418	ekey cover WM 2.0 ST , brushed stainless steel
	<ul style="list-style-type: none"> • Dimensions WxHxD: 89x87x103 mm • Recommended mounting height: 110 cm (lower edge) • Scope of delivery: Stainless steel housing, 4 chipboard screws, 4x35, 4 screw anchors S5, 3 countersunk head screws M3x16, 3 Torx countersunk head screws M3x6 GU





Finger scanner Outlet-Mounted

Outlet-Mounted I for integration into door stations



Part no.	Description
101 310	ekey home FS OM I , for integration in door stations
101 671	ekey home FS OM I RFID incl. 2 RFID cards , for integration in door stations
	<ul style="list-style-type: none"> • FAR: 1:10,000,000 • FRR: 1:100 • Dimensions WxHxD: 50.4x50.4x30.1 mm • Power consumption: approx. 1 W • Supply voltage: 8-24 VDC • Temperature range: -25°C to +70°C <ul style="list-style-type: none"> • Recommended mounting height: 155 cm Be sure that the device remains easy to access and operate • Display: 3 multicolor LEDs • Tamper-proof, data retained in the event of a power failure, bus termination can be deactivated on the device, compatible with many door station build-in modules, letterboxes, wall mounting sets, etc.
101 690	ekey RFID card MIFARE DESFire EV1 2K logo , with printed ekey logo, ISO 14443A
101 692	ekey RFID card MIFARE DESFire EV1 2K WHI , white, ISO 14443A
101 691	ekey RFID fob MIFARE DESFire EV1 2K BL , black, ISO 14443A



Accessory

! Important: availability of build-in modules varying from country to country!

Part no.	Description
	Door station build-in modules GIRA
101 380	ekey Modul GIRA TX44 AL , aluminum color
101 381	ekey Modul GIRA TX44 AN , anthracite
101 382	ekey Modul GIRA TX44 PW , pure white
	Door station build-in modules SIEDLE
101 376	ekey Modul SIEDLE Vario DG , micaceous dark gray
101 378	ekey Modul SIEDLE Vario W , white
101 379	ekey Modul SIEDLE Vario SM , silver metallic
101 858	ekey Modul SIEDLE Vario AG , anthracite gray
	Door station build-in modules Elvox
101 552	ekey Modul Elvox 8000 series GR , gray
	Door station build-in modules bticino
101 533	ekey Modul bticino Sfera AME , Allmetal
101 534	ekey Modul bticino Sfera AWH , Allwhite
101 535	ekey Modul bticino Sfera AST , Allstreet
101 536	ekey Modul bticino Sfera ROB , Robur
	Door station build-in modules Comelit
101 473	ekey Modul Comelit ikall BL , black, ekey finger scanner OM I built-in
101 629	ekey Modul Comelit metal , metallic, ekey finger scanner OM I built-in

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

Outlet-mounted E for integration into door station Siedle Vario flush mounted



Part no.	Description
101 148	ekey home FS OM E , for integration in ekey ModulS Siedle Vario
101 673	ekey home FS OM E RFID incl. 2 RFID cards , for integration in ekey ModulS Siedle Vario
	<ul style="list-style-type: none"> • FAR: 1:10,000,000 • FRR: 1:100 • Dimensions WxHxD: 50.4x50.4x30.1 mm • Power consumption: approx. 1 W • Supply voltage: 8-24 VDC • Temperature range: -25°C to +70°C
	<ul style="list-style-type: none"> • Recommended mounting height: 155 cm Be sure that the device remains easy to access and operate • Display: 3 multicolor LEDs • Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device
101 690	ekey RFID card MIFARE DESFire EV1 2K logo , with printed ekey logo, ISO 14443A
101 692	ekey RFID card MIFARE DESFire EV1 2K WHI , white, ISO 14443A
101 691	ekey RFID fob MIFARE DESFire EV1 2K BL , black, ISO 14443A



Accessory **!** **Attention:** This accessory is only available in combination with ekey FS OM E (101 148 and 101 673)!



Part no.	Description
	Build-in modules for door stations Siedle Vario flush mounted*
101 892	ekey ModulS Siedle Vario DG , micaceous dark gray
101 893	ekey ModulS Siedle Vario W , white
101 894	ekey ModulS Siedle Vario SM , silver metallic
101 895	ekey ModulS Siedle Vario AG , anthracite gray
101 897	ekey ModulS Siedle Vario DG LED , micaceous dark gray with alarm LEDs
101 898	ekey ModulS Siedle Vario W LED , white with alarm LEDs
101 899	ekey ModulS Siedle Vario SM LED , silver metallic with alarm LEDs
101 900	ekey ModulS Siedle Vario AG LED , anthracite gray with alarm LEDs

! ***Important:** Not compatible with the Siedle Vario surface mounted model.

Well-known manufacturers build ekey finger scanners into 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 Outlet-Mounted E

For integration into switch frames



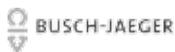
Art.-Nr.	Beschreibung
101 148	ekey home FS OM E , for in-wall mounting in outlet
101 673	ekey home FS OM E RFID incl. 2 RFID cards , for in-wall mounting in outlet
	<ul style="list-style-type: none"> • FAR: 1:10,000,000 • FRR: 1:100 • Dimensions WxHxD: 50.4x50.4x30.1 mm • Power consumption: approx. 1 W • Supply voltage: 8-24 VDC • Temperature range: -25°C to +70°C • IP code: IP44 (depending on the switch range) • Display: 3 multicolor LEDs <ul style="list-style-type: none"> • Recommended mounting height: 155 cm Be sure that the device remains easy to access and operate • 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. • Incl. bezel, mounting bracket, spacers, sealing flange
101 690	ekey RFID card MIFARE DESFire EV1 2K logo , with printed ekey logo, ISO 14443A
101 692	ekey RFID card MIFARE DESFire EV1 2K WHI , white, ISO 14443A
101 691	ekey RFID fob MIFARE DESFire EV1 2K BL , black, ISO 14443A



Accessory - Bezel



Part no.	Description
101 166	ekey bezel FS OM PW 50x50 , plastic pure white
101 167	ekey bezel FS OM AL 50x50 , plastic aluminium color
101 168	ekey bezel FS OM AN 50x50 , plastic anthracite



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

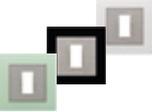
! The ekey FS OM E has been designed and built for in-wall mounting in electric gang boxes in accordance with DIN 49073.

Cavity wall box



Electric gang box for plastering

Accessory - Frame

Part no.	Description
 101 372	ekey frame FS OM ST , brushed stainless steel*
	<ul style="list-style-type: none"> • Dimensions WxHxD: 85x85x7.2 mm • Cover provides the device with IP44 protection for use outdoors on exterior rendering with max. 1.5 mm masonry graining around the electrical outlet.
 101 702	ekey frame FS OM GL WHI , glass white
 101 703	ekey frame FS OM GL BL , glass black
 101 704	ekey frame FS OM GL MI , glass mint
	<ul style="list-style-type: none"> • Dimensions WxHxD: 100x100x7.5 mm • Cover provides the device with IP44 protection for use outdoors on exterior rendering with max. 1.5 mm masonry graining around the electrical outlet.
 101 705	ekey frame FS OM503 GL WHI , glass white
 101 706	ekey frame FS OM503 GL BL , glass black
 101 707	ekey frame FS OM503 GL MI , glass mint
	<ul style="list-style-type: none"> • Dimensions WxHxD: 125x100x7.5 mm • Cover provides the device with IP44 protection for use outdoors on exterior rendering with max. 1.5 mm masonry graining around the 503 electrical outlet.

 ***Attention:** RFID function is not possible with ekey frame FS OM ED (101 372)!

Accessory - Mounting frame

Part no.	Description
 101 779	ekey mounting frame FS OM GL WHI , glass white
 101 780	ekey mounting frame FS OM GL AN , glass anthracite
 101 781	ekey mounting frame FS OM GL MI , glass mint
 101 785	ekey mounting frame FS OM GL MI LED , glass mint with alarm LEDs
 101 786	ekey mounting frame FS OM GL AN LED , glass anthracite with alarm LEDs
 101 787	ekey mounting frame FS OM GL WHI LED , glass white with alarm LEDs
	<ul style="list-style-type: none"> • Dimensions WxHxD: Mounting frame: 105x105x54 mm Flush mount back box: 73x73x57 mm • Material: Glass, plastic • Minimum mounting height: 100 cm • Scope of delivery: Mounting frame and flush mount back box. A standard flush mount back box is not suitable.
 101 838	ekey cavity wall box WHI , for mounting frame FS OM
	<ul style="list-style-type: none"> • Dimensions WxHxD: Cavity wall box: 83x83x65 mm • Material: Plastic



Finger scanner integra



Part no.	Description
101 794	ekey home FS IN 2.0 , incl. 8 m connection cable
101 797	ekey home FS IN 2.0 RFID incl. 2 RFID cards , incl. 8 m connection cable
	<ul style="list-style-type: none"> • FAR: 1:10,000,000 • FRR: 1:100 • Dimensions WxHxD: Housing 43.6x89x17.3 mm with design element: 45.5x91.5x17.3 mm • Power consumption: approx. 1 W • Supply voltage: 8-24 VDC • Temperature range: -25°C to +70°C
	<ul style="list-style-type: none"> • IP code: IP54 • Recommended mounting height: 155 cm • Display: 3 multicolor LEDs • Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device • Design element not contained within scope of delivery
101 690	ekey RFID card MIFARE DESFire EV1 2K logo , with printed ekey logo, ISO 14443A
101 692	ekey RFID card MIFARE DESFire EV1 2K WHI , white, ISO 14443A
101 691	ekey RFID fob MIFARE DESFire EV1 2K BL , black, ISO 14443A



Accessory - Design element



Part no.	Description
	Design elements FS IN
101 254	ekey design element FS IN ST, stainless steel
101 305	ekey design element FS IN BL, black
101 304	ekey design element FS IN WHI, white
101 303	ekey design element FS IN GO, gold
	Design element FS IN RFID
101 688	ekey design element FS IN ST RFID, stainless steel

! **Notice:** Special colors on request!

Accessory - Mounting frame



Part no.	Description
101 716	ekey mounting frame FS IN GL AN , glass anthracite
101 717	ekey mounting frame FS IN GL WHI , glass white
101 801	ekey mounting frame FS IN GL AN LED , glass anthracite with alarm LEDs
101 802	ekey mounting frame FS IN GL WHI LED , glass white with alarm LEDs
	<ul style="list-style-type: none"> • Dimensions WxHxD: 53.5x127x24 mm • Material: Stainless steel, glass • Minimum mounting height: 155 cm

Accessory - Mounting frame with bell module



Part no.	Description
101 803	ekey mounting frame FS IN BeM GL WHI, glass white
101 804	ekey mounting frame FS IN BeM GL AN, glass anthracite
101 807	ekey mounting frame FS IN BeM GL WHI LED, glass white with alarm LEDs
101 808	ekey mounting frame FS IN BeM GL AN LED, glass anthracite with alarm LEDs
	<ul style="list-style-type: none"> • Dimensions W x H x D: 53.5 x 171 x 24 mm • Material: Stainless steel, glass • 2 buttons to trigger a bell electronically

Accessory - Wall mounting set



Part no.	Description
101 302	ekey wall mounting set FS IN ST, stainless steel
101 301	ekey wall mounting set FS IN ST LED, stainless steel with alarm LEDs
	Housing: WxHxD: 60x122x36 mm Faceplate WxHxD: 96x142x2 mm
101 147	ekey weather shield FS IN ST, stainless steel incl. wall mounting set
	Housing WxHxD: 60x122x36 mm Faceplate WxHxD: 126x142x65 mm
101 300	ekey flush mount back box FS IN, for flush-mounting installation, 0.5 mm sheet
	Housing WxHxD: 42x87x25 mm



Code pad keypad integra



Part no.	Description
101 809	ekey home KP IN 2.0, incl. 8 m connection cable
	<ul style="list-style-type: none"> • Keypad: capacitive touchpad • Dimensions WxHxD: 51.7x97.1x21.4 mm • Power consumption: approx. 1 W • Supply voltage: 8-24VDC • Temperature range: -25°C to +70°C • IP code: IP54 • Display: 3 multicolor LEDs • 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) • Design element not contained within scope of delivery

Accessory - Design element



Part no.	Description
101 677	ekey design element KP IN GL SG, glass stainless steel gray
101 678	ekey design element KP IN GL WHI, glass white
101 679	ekey design element KP IN GL AN, glass anthracite

Accessory - Mounting frame



Part no.	Description
101 714	ekey mounting frame KP GL AN, glass anthracite
101 715	ekey mounting frame KP GL WHI, glass white
101 799	ekey mounting frame KP GL AN LED, glass anthracite with alarm LEDs
101 800	ekey mounting frame KP GL WHI LED, glass white with alarm LEDs
	<ul style="list-style-type: none"> • Dimensions WxHxD: 53.5x127x24 mm • Material: Stainless steel, glass

Accessory - Mounting frame with bell module



Part no.	Description
101 782	ekey mounting frame KP BeM GL AN, glass anthracite
101 783	ekey mounting frame KP BeM GL WHI, glass white
101 805	ekey mounting frame KP BeM GL WHI LED, glass white with alarm LEDs
101 806	ekey mounting frame KP BeM GL AN LED, glass anthracite with alarm LEDs
	<ul style="list-style-type: none"> • Dimensions WxHxD: 53.5x171x24 mm • Material: Stainless steel, glass • 2 buttons to trigger a bell electronically

Accessory - Wall mounting set



Part no.	Description
101 302	ekey wall mounting set FS IN ST, stainless steel
101 301	ekey wall mounting set FS IN ST LED, stainless steel with alarm LEDs
	<ul style="list-style-type: none"> Housing: WxHxD: 60x122x36 mm Faceplate WxHxD: 96x142x2 mm
101 147	ekey weather shield FS IN ST, stainless steel incl. wall mounting set
	<ul style="list-style-type: none"> Housing WxHxD: 60x122x36 mm Faceplate WxHxD: 126x142x65 mm
101 300	ekey flush mount back box FS IN, for flush-mounting installation, 0.5 mm sheet
	<ul style="list-style-type: none"> Housing WxHxD: 42x87x25 mm





Control panel



Step 2: Select the ekey multi control panel.



Control panel



Part no.	Description
101 163	ekey multi CP DRM 4, 4 relays
	<ul style="list-style-type: none"> • Dimensions WxHxD: 70x86x54 mm (4 HP) • Power consumption: approx. 1 W • Supply voltage: 8-24 VDC • Temperature range: -20°C to 70°C • IP code: IP20 • Relays: 4x potential-free • Max. relay voltage, max. relay current: 42 VAC/DC; 2 A • Inputs (door opener): 4x potential-free • Display: LCD 106 x 56 pixels, 7 lines/21 characters + 2x4 status LEDs • Operation: 4 buttons • RS-485 termination: switchable • Runtime buffer for built-in clock: 96 h • Connect up to 4 scanners, enroll users, delete individual users, set relay times (0-99s), change security code, reset, adjust LED brightness, test mode, 3 time zones, access log recording, master key plan, names input, vacation and always-access mode, configurable inputs • KNX compatible

Accessory (optional)



Part no.	Description
100 433	ekey multi CV USB RS-485
	<ul style="list-style-type: none"> • ekey multi data backup on PC (finger templates, control panel configuration, log files, etc.) • Configuration of the ekey Wiegand converter (101 582)
	Scope of delivery: USB converter, software, USB cable

Step 3: Select a suitable power supply.

! ATTENTION: A suitable power supply is often included in the scope of delivery for mounting inside door stations. Check the voltage and current needed to control the consumers (door opener, motorized lock). The scope of delivery for motorized locks usually includes a power supply.



Power supply



Part no.	Description
100 204	ekey PS OM 230 VAC/12 VDC/2 A , outlet-mounted power supply <ul style="list-style-type: none"> • Dimensions øxH: 54x31 mm • Supply voltage: 230 VAC • Output voltage, output current: 12 VDC; 2 A • Temperature range: -5°C to 50°C
100 205	ekey PS DRM 230 VAC/12 VDC/2 A , DIN-rail mounted <ul style="list-style-type: none"> • Dimensions WxHxD: 52.5x93x68.5 mm (3 HP) • Supply voltage: 230 VAC • Output voltage, output current: 12 VDC; 2 A • Temperature range: -10°C to 45°C • IP code: IP20
100 891	ekey PS DRM 230 VAC/24 VDC/2 A , DIN-rail mounted* <ul style="list-style-type: none"> • Dimensions WxHxD: 70x93x66.5 mm (4 HP) • Supply voltage: 230 VAC • Output voltage, output current: 24 VDC; 2 A • Temperature range: -5°C to 50°C



UPS DRM

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
101 559	ekey UPS DRM 230/12 VDC/4 Ah , DIN-rail mounted <ul style="list-style-type: none"> • Dimensions WxHxD: UPS: 140x93x66.5 mm (8 HP) Battery: 157x93x66.5 mm (9 HP) • Supply voltage: 100-240 VAC • 2 parts: UPS (switched-mode power supply) and battery • Output voltage, output current: 12 VDC; 2 A • Temperature range: -10°C to 40°C • Function display: LED • Advantage: Replaces power supply; ensures a reliable power supply to the system for several hours. Suitable for use in conjunction with a motorized lock.
101 593	ekey UPS DRM 230/24 VDC/4 Ah , DIN-rail mounted <ul style="list-style-type: none"> • Dimensions WxHxD: UPS: 210x93x66.5 mm (12 HP) Battery: 157x93x66.5 mm (9 HP) • Supply voltage: 100-240 VAC • 3 parts: UPS (switched-mode power supply) and 2x battery • Output voltage, output current: 24 VDC; 3 A • Temperature range: -10°C to 40°C • Function display: LED • Advantage: Replaces power supply; ensures a reliable power supply to the system for several hours. Suitable for use in conjunction with a motorized lock.



Step 4: Select a suitable interface, if required.



Connection to home automation systems



Part no.	Description
100 460	ekey home CV LAN RS-485
	RS-485/LAN interface for connection to external systems (e.g. KNX) with UDP protocol
	Scope of delivery: LAN converter, software

"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
101 719	ekey home CV KNX RS-485
	The ekey KNX converter is used to trigger functions in home automation systems based on the KNX home automation bus.
	<ul style="list-style-type: none"> • Makeup: DIN-rail mounted • Dimensions WxHxD: 18x98x61 mm (1 HP) • Supply voltage: 12–24 VDC • Mounting type: DIN rail
	<ul style="list-style-type: none"> • RS-485 cable length: 10 m • Number of RS-485 interfaces: 1 • RS-485 protocol: ekey home • 12 events (10 free, 1 unrecognized, 1 tampering) • in addition to the relays of the control panel • specific application for ETS (ETS 5) • functions: switching, sending values, activating scenarios • assigning an event to a finger



Connection to external systems



Part no.	Description
101 582	ekey home CV WIEG RS-485
	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 CV USB RS-485 (100 433).
	Scope of delivery: Wiegand converter, software



ekey lock radio cylinder

Retrofitting solution for all ekey systems.

COMPATIBLE
with ekey home
and ekey multi

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

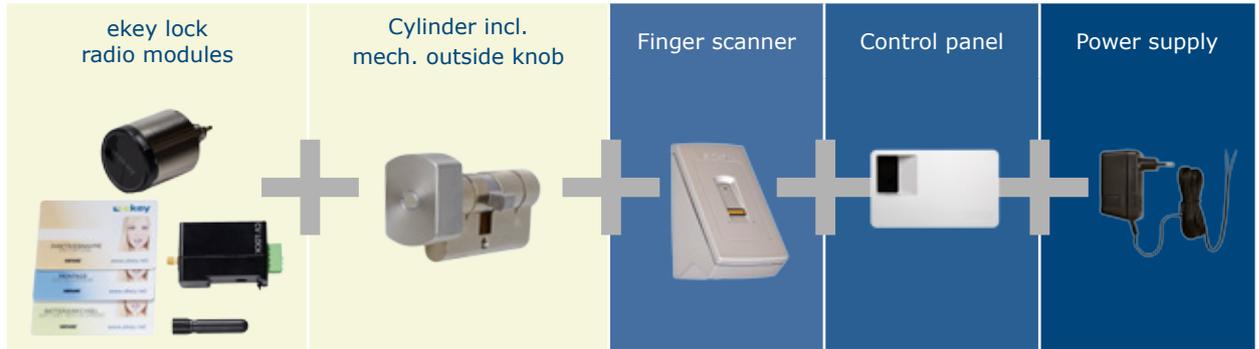
Short facts:

- 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 keypad





What you need to get your system into operation:



Optional:

- ekey lock wireless transponder for emergency opening



Grundset

Part no.	Description
 100 893	ekey lock radio modules 3.0
	<p>Scope of delivery:</p> <ul style="list-style-type: none"> 1 module knob (MOK) 1 radio emitting module (REM) 1 short antenna (SANT) <ul style="list-style-type: none"> REM power supply 1 card set 2 batteries (CR2 type) 1 battery replacement clamp
	<p>Cylinders in lengths from 30/30 to 70/70 in 5 mm increments (see price list)</p> <p>Scope of delivery: 1 mechanical knob (MEK) with permanently attached cylinder</p>
	<p>! Important: Use a measuring gauge to determine the correct cylinder length. See price list for cylinder lengths.</p>

Accessory



Part no.	Description
150 017	ekey lock wireless transponder 3.0
	Key for emergency opening; backup if there is no 2nd entrance (battery typ CR2032)

Electric strike

150 021	ekey lock electric strike
	Scope of delivery: electric strike 10-24 V ACDC, flat shield 25x250x3 mm

Determine cylinder length

Cut out the measuring gauge on page 73 and slide it into the opening where the lock cylinder should be.

Retrofit solutions

from ekey finger scanner WM 1.0 to **OM E** or **WM 2.0**

Retrofit solution for FS OM E



Part no.	Description
on request	ekey wall mounting set WM 1.0 , upgrade to FS OM E
	<p>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.</p> <p>Scope of delivery: Front panel made of stainless steel, mounting bracket, screws for FS OM E</p>

! Attention: RFID function is not possible with ekey wall mounting set WM 1.0 (101 765)!

! Attention: Modification will be carried out at ekey's factory.

Retrofit solution for FS WM 2.0



Part no.	Description
101 753	ekey mounting plate WM 2.0 ST
	<p>The ekey stainless-steel mounting plate 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 when upgrading the ekey finger scanner wall-mounted 1.0 to version 2.0.</p> <p>Scope of delivery: Mounting plate made of stainless steel, 2 screw anchors, 2 x 2 stainless-steel screws</p>



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 **„WHO“ triggers an action** and therefore make it possible to control, manage, or grant access to your building based on a particular person.

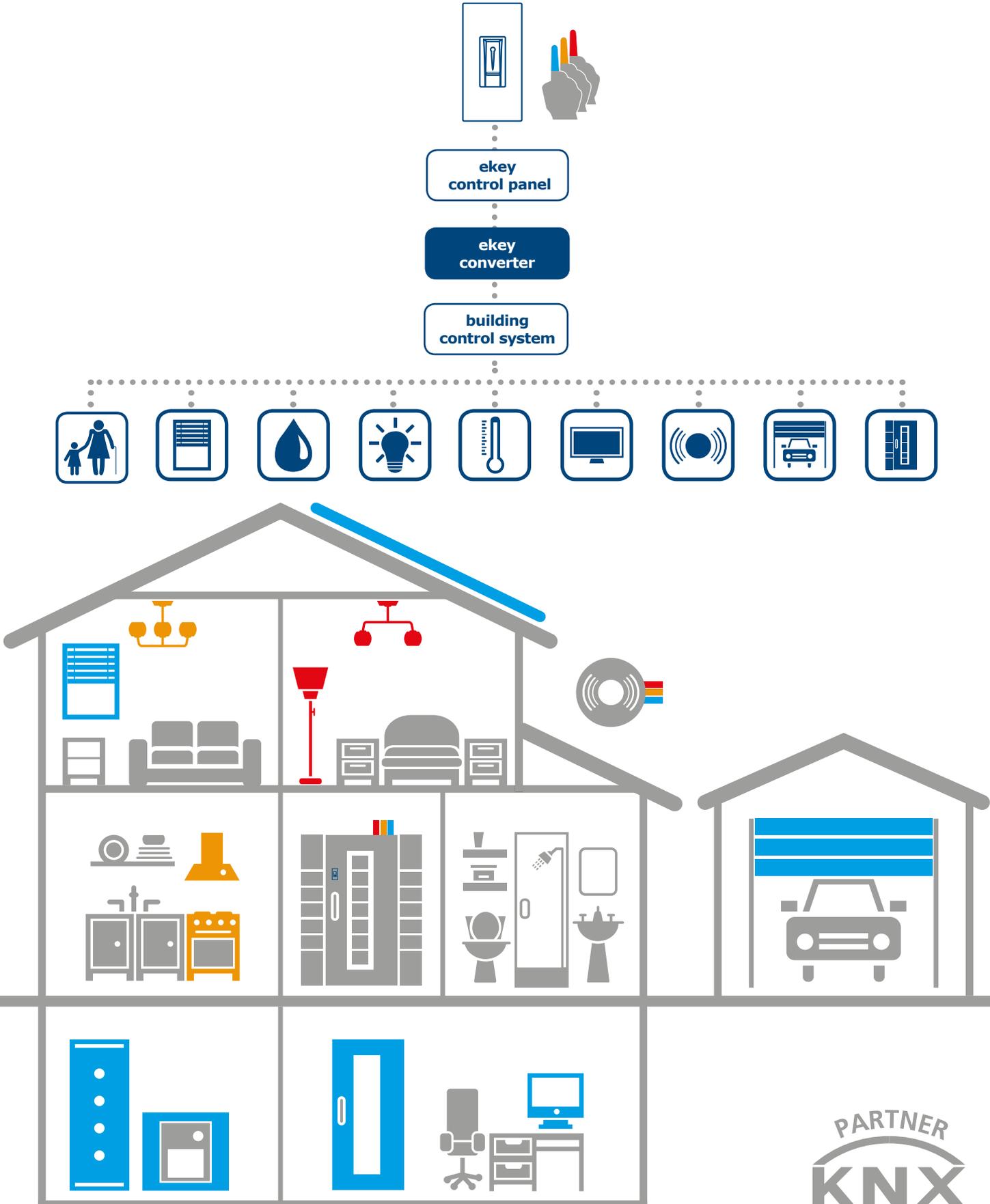
By integrating ekey fingerprint access control solutions into your building control system, you get lots of new options:

- 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 have 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 the 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.



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 at 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 protocol, you know who triggered an action when and where!
- It is also 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 08.00 and 12.00)



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

- E.g. by controlling complete sections of a 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. E.g. enabling the voice control using fingerprint identification

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

 <p>ekey home CV LAN RS-485 Part no. 100 460</p> <p>The ekey LAN converter for connecting the equipment to third-party systems with a UDP protocol.</p>	 <p>ekey home CV WIEG RS-485 Part no. 101 582</p> <p>The ekey Wiegand converter converts the RS-485 protocol used by ekey into a 26-bit Wiegand protocol (adjustable).</p>	 <p>NEW</p> <p>ekey home CV KNX RS-485 Part no. 101 719</p> <p>The certified ekey KNX converter converts access information directly into KNX events.</p> 
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Aside from these converters (KNX, UDP, Wiegand), ekey also offers the option of coupling finger scanners directly with third-party systems using a software development kit.

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.

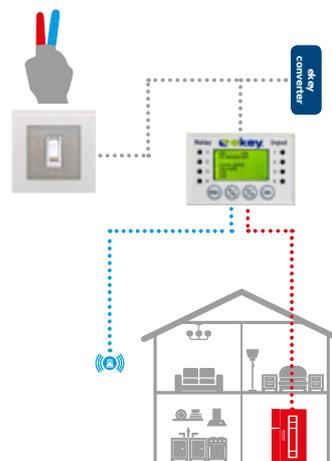
The right access solution for my private space.

ekey home

Single-point access solutions.

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

- can store up to 99 fingerprints
- can be used to 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 Bluetooth)
- optional: Card access (RFID) is possible -> can also store up to 99 cards



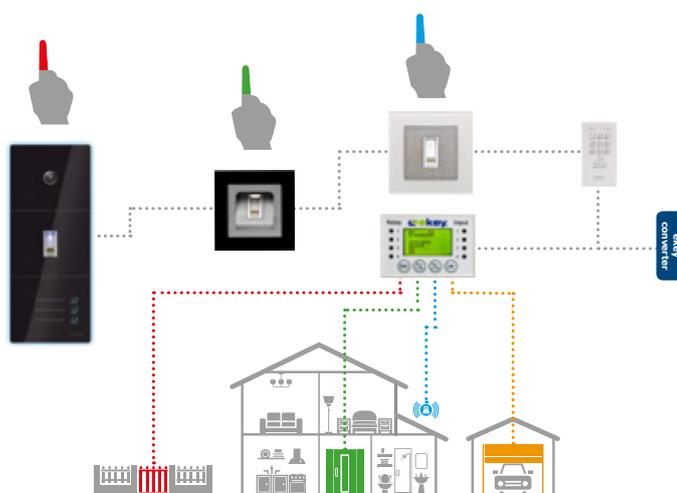
The ideal access solution for home and work.

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 be used to control up to 4 functions
- Individually programmable time slots
- access log recording 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: Card access (RFID) is possible -> can also store up to 99 cards



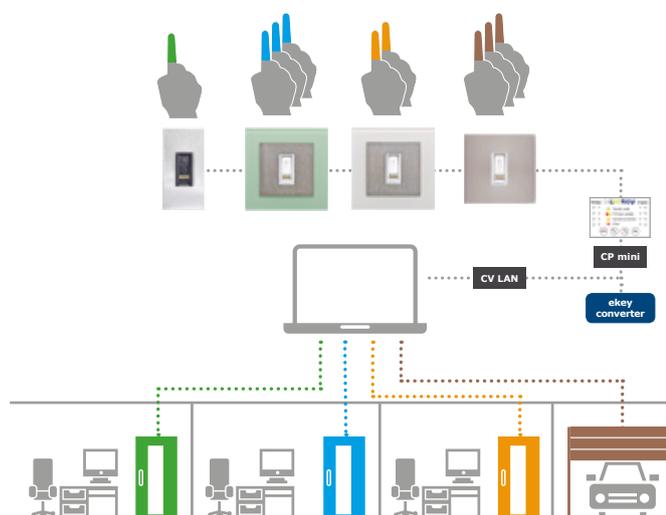
The networkable access solution for companies and discerning households.

ekey net

Network access solutions.

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

- each finger scanner* can store up to 2,000 fingerprints
- supports up to 80 finger scanners
- can be used to control up to 4 functions
- programmable time slots
- access log recording for every finger scanner
- supports cross-site administration
- central administration via PC
- calendar function
- optional: Card access (RFID) is possible -> can also store up to 2000 cards



*alternatively: Code pad (keypad) -> can store up to 99 or 2,000 codes

BECKHOFF

New Automation Technology

Areas of application

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

ekey finger scanner + 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/FwWh7M>





ekey finger scanners for BECKHOFF



Part no.	Description	
For wall mounting and easy retrofitting.		
101 556	ekey FS WM 2.0 BECKHOFF	
	RS-485, 255 users, for BECKHOFF	FS WM 2.0 , steel-gray
101 683	ekey FS WM 2.0 RFID BECKHOFF	
	RS-485, 255 users, for BECKHOFF	FS WM 2.0 with RFID card reader, steel-gray
101 699	ekey FS WM 2.0 RFID + REL BECKHOFF*	
	RS-485, 255 users, for BECKHOFF	FS WM 2.0 with RFID card reader and integrated switching relay, steel-gray



For mounting in doors or walls.		
101 557	ekey FS IN 2.0 E BECKHOFF	
	RS-485, 255 users, for BECKHOFF	FS integra 2.0 with stainless-steel design element (ST) and 24 cm connection cable
101 698	ekey FS IN 2.0 E RFID BECKHOFF*	
	RS-485, 255 users, for BECKHOFF	FS integra 2.0 with stainless-steel card reader design element (ST) and 24 cm connection cable



For integration in door stations.		
101 554	ekey FS OM I BECKHOFF	
	RS-485, 255 users, for BECKHOFF	FS OM I for integration without design element (door station)
101 682	ekey FS OM I RFID BECKHOFF*	
	RS-485, 255 users, for BECKHOFF	FS OM I with RFID card reader for integration without design element (door station)



For integration into switch frames.		
101 555	ekey FS OM E BECKHOFF	
	RS-485, 255 users, for BECKHOFF	FS OM E for switch ranges with bezel, pure white
101 681	ekey FS OM E RFID BECKHOFF*	
	RS-485, 255 users, for BECKHOFF	FS OM E with RFID card reader for switch ranges with bezel, pure white
101 598	ekey FS OM E REL BECKHOFF	
	RS-485, 255 users, for BECKHOFF	FS OM E with integrated switching relay for switch ranges with bezel, pure white

*ekey RFID card (100 875) or ekey RFID FOB (100 662) on request!



BECKHOFF components



Part no.	Description	
KL6041	Serial interface for K bus	
	RS-485	Up to 8 finger scanners per terminal
EL6021	Serial interface for E bus	
	RS-485, 115.2 kBaud	Up to 8 finger scanners per terminal

Beckhoff Automation GmbH & Co. KG

Tips and Tricks

Congratulations on purchasing your ekey product!

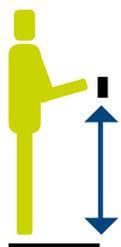
Your finger is now also your key! Our tips and tricks will help you to make the best possible use of your ekey finger scanners.

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	Minimum mounting height (lower edge)
WM (Wall-Mounted)	135cm
OM (Outlet-Mounted)	100/155cm
IN (integra)	155cm
AR (arte)	155cm

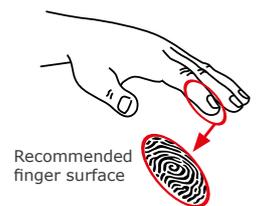
Mounting the control panel

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

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 and clearing with a soft cloth.

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.

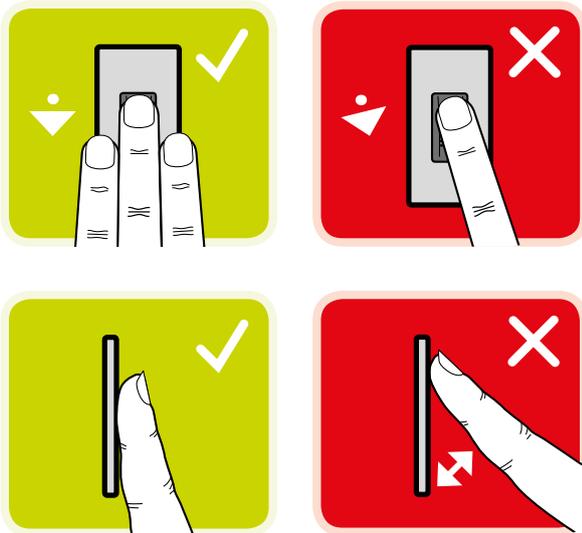
Children should use their index finger or whichever finger they instinctively choose to use. Use the fingers that are most comfortable for you and those that are recognized the quickest.

Finger swiping

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.



Saving fingerprints

To enable convenient operation with either hand, and as a backup in case of injury, you should enroll 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 enrolled 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 in the limit range 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.

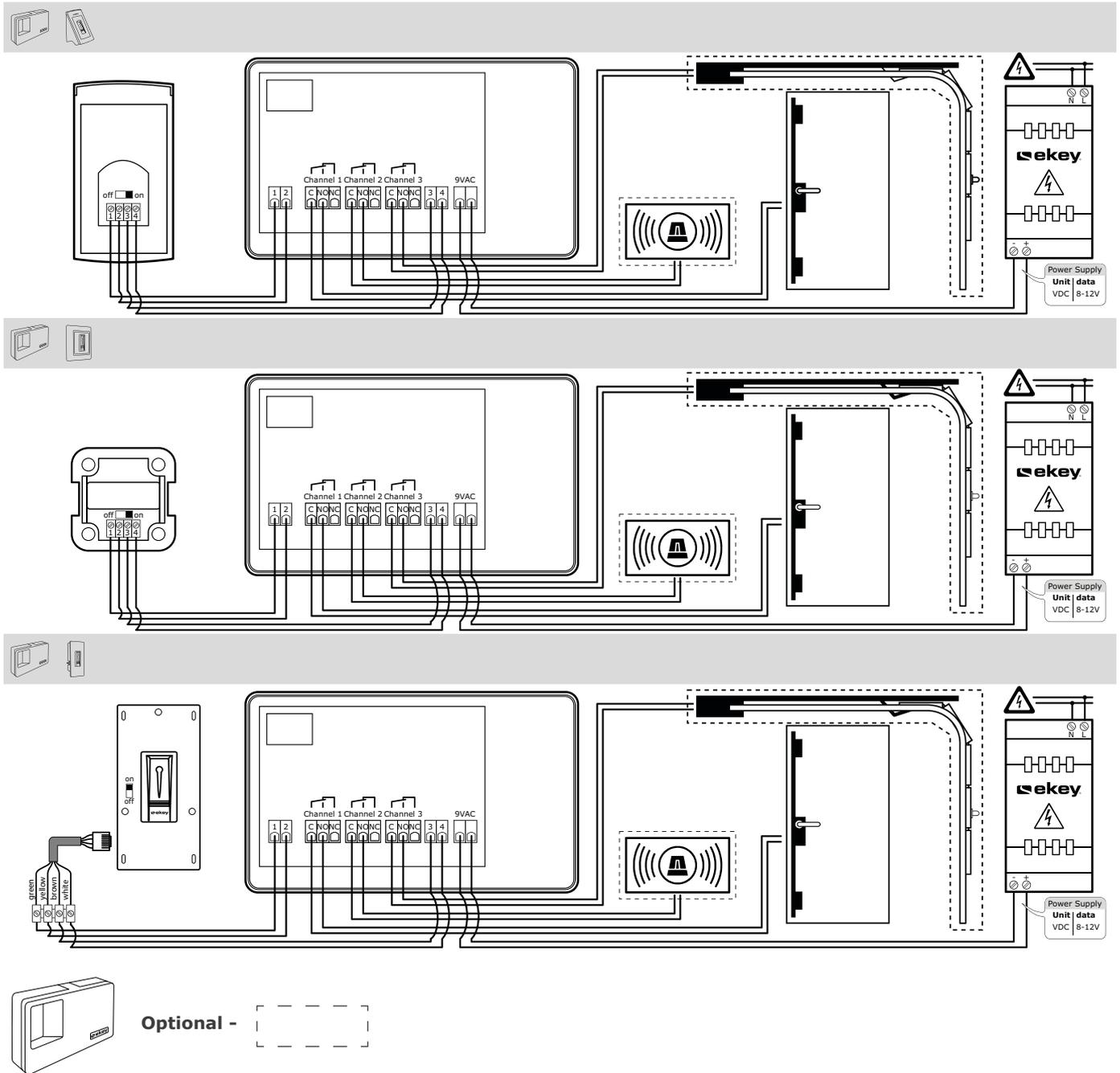
Support

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

Austria & International: +43 732 890 500 - 0



Wiring diagram ekey home CP WM

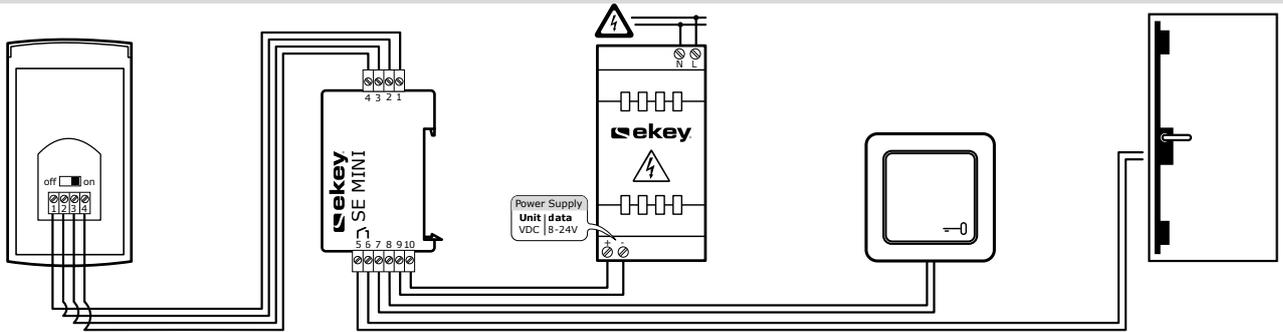


Cable recommendation: J-Y(ST)Y 4 x 2 x 0,8mm

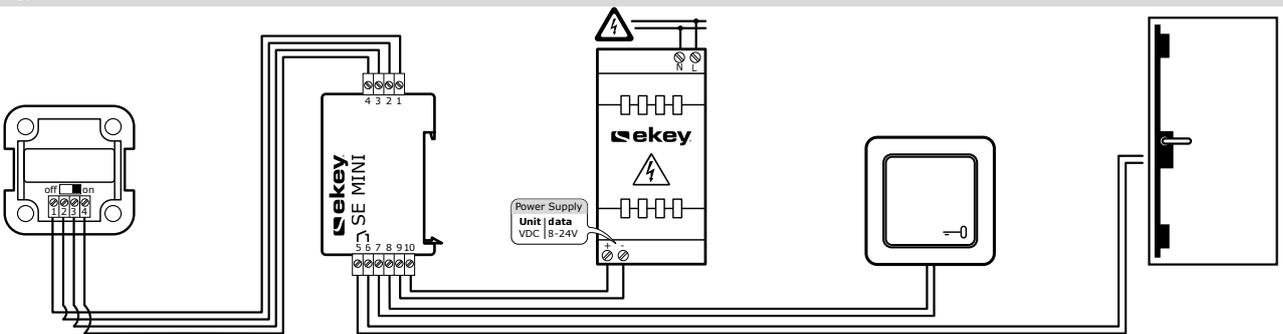
Pin	Description	Pin	Description	Pin	Description
1	RS-485 (Clamp 1)	CH2	Relay 2 (common)		Relay 3 NC (normally closed)
2	RS-485 (Clamp 2)		Relay 2 NO (normally open)	3	Power supply FS
CH1	Relay 1 C (common)		Relay 2 NC (normally closed)	4	Power supply FS
	Relay 2 NO (normally open)	CH3	Relay 3 C (common)	9 VAC	+ VCC (8-12 VDC)
	Relay 1 NC (normally closed)		Relay 3 NO (normally open)	9 VAC	- VCC (8-12 VDC)

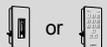
Wiring diagram ekey home CP mini 1

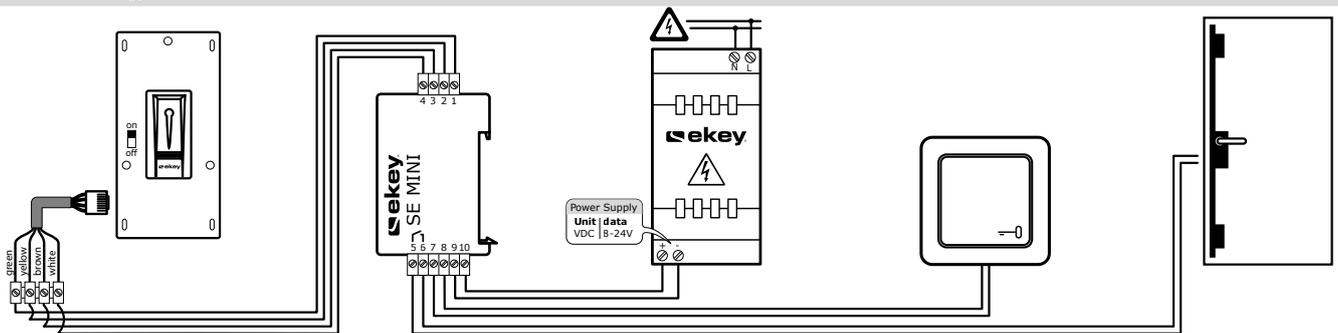
 ekey home CP mini 1: 1 relay, 1 input



 ekey home CP mini 1: 1 relay, 1 input



 or  ekey home CP mini 1: 1 relay, 1 input



Cable recommendation: J-Y(ST)Y 4 x 2 x 0,8mm

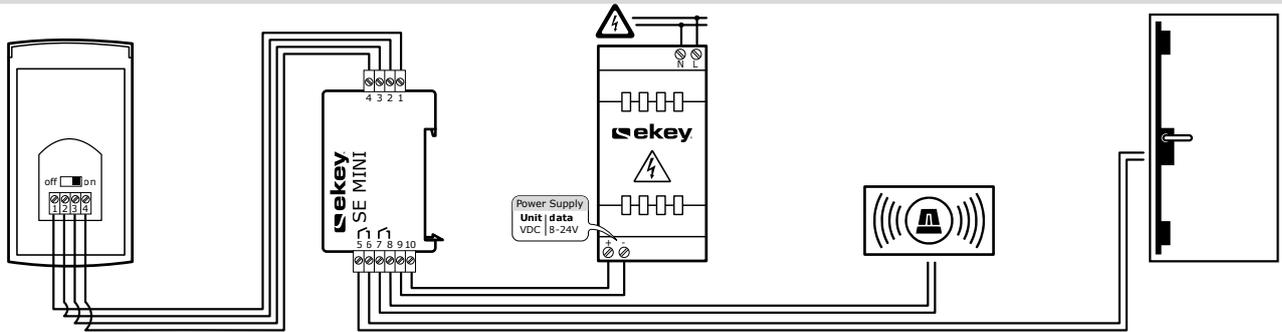


Pin	Description
1	RS-485 (Clamp 1)
2	RS-485 (Clamp 2)
3	Power supply FS
4	Power supply FS
5	Relay C (common)

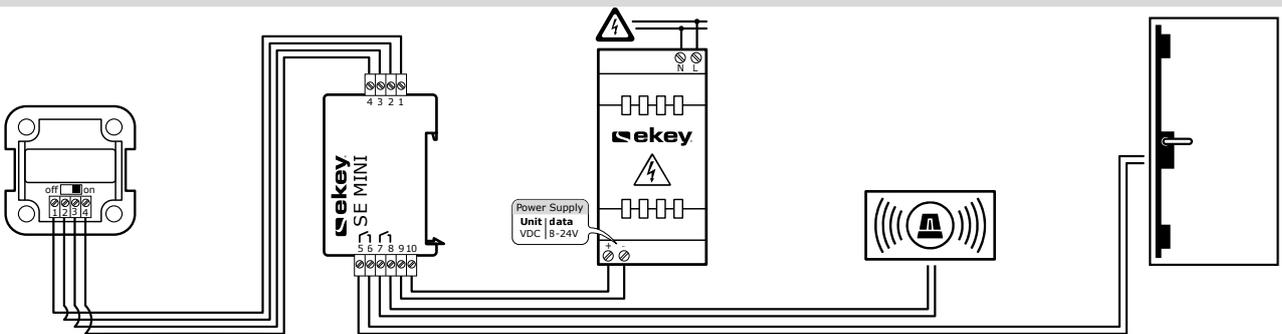
Pin	Description
6	Relay NO (normally open)
7	Input common
8	Input
9	- VCC
10	+ VCC (8-24 VDC)

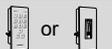
Wiring diagram ekey home CP mini 2

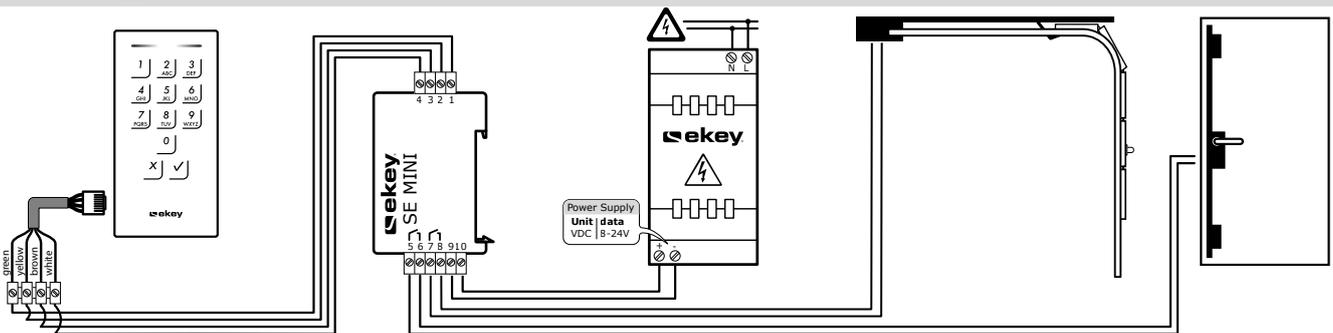
 ekey home CP mini 2: 2 relays



 ekey home CP mini 2: 2 relays



 or  ekey home CP mini 2: 2 relays



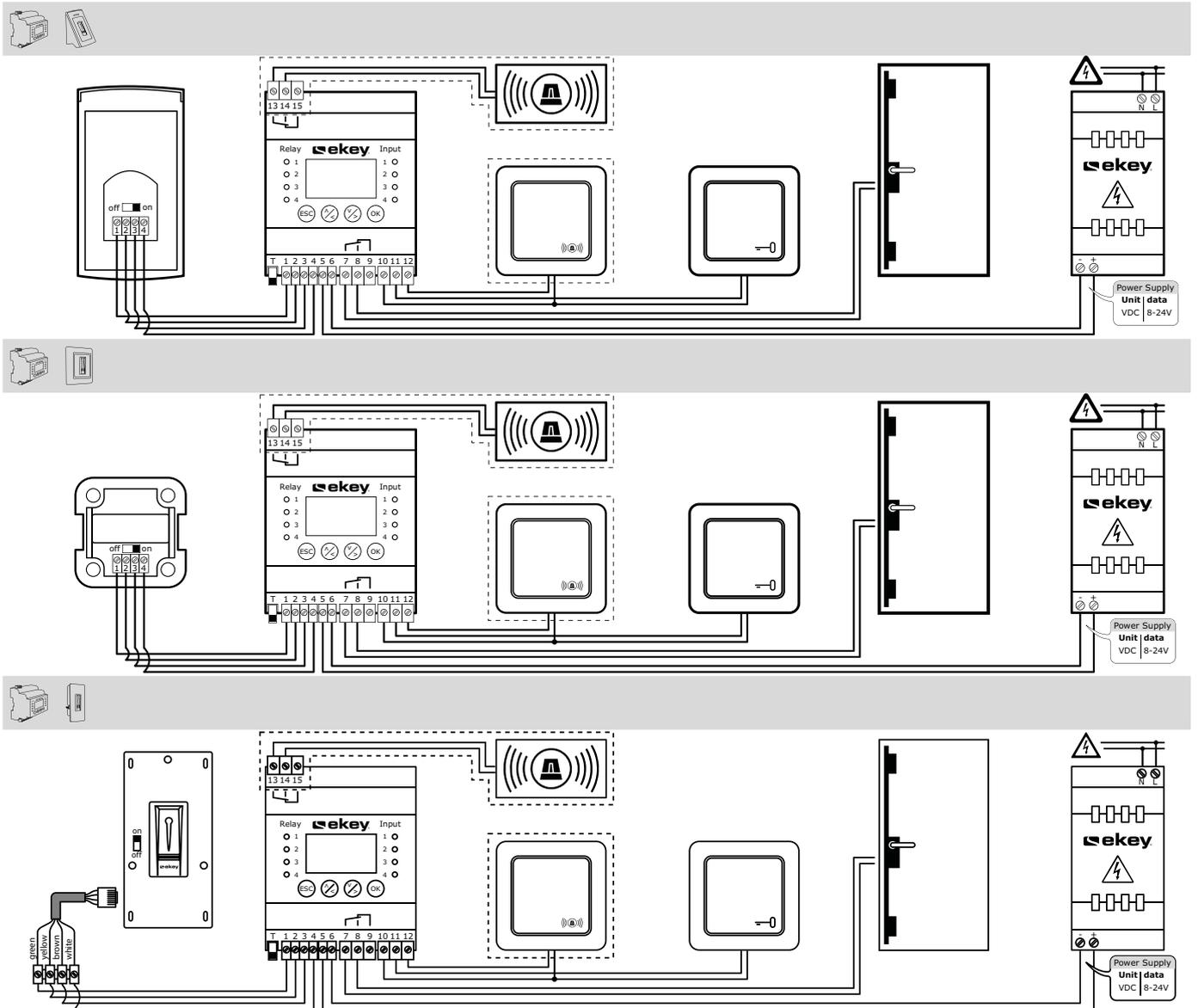
Cable recommendation: J-Y(ST)Y 4 x 2 x 0,8mm



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 CP DRM



Optional - []

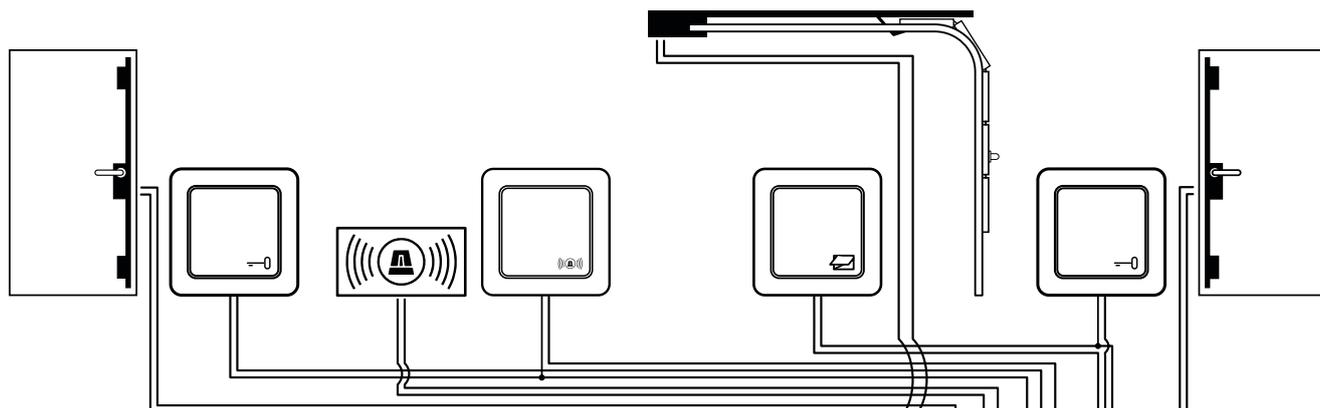
Cable recommendation: J-Y(ST)Y 4 x 2 x 0,8mm

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)

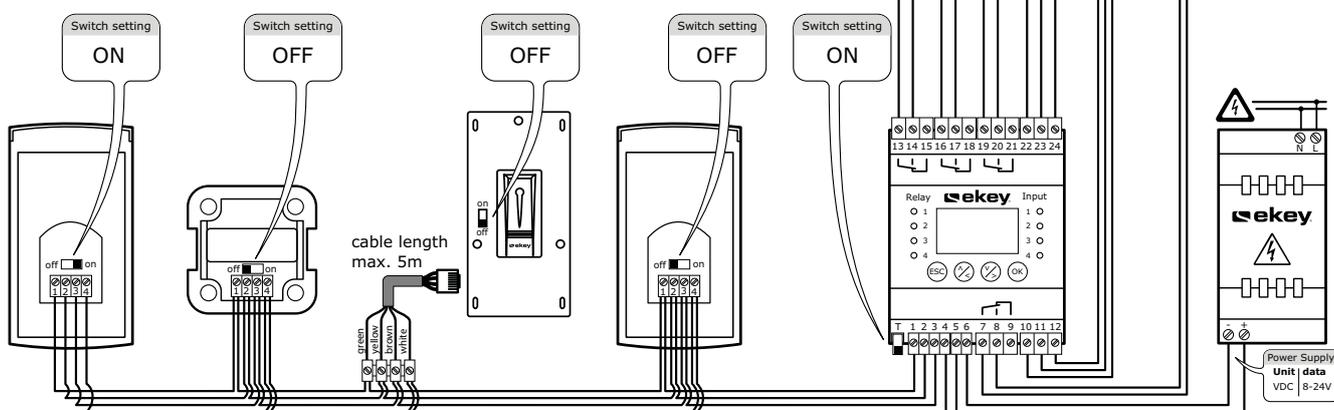
Pin	Description
6	- VCC (8-24 VDC)
7	Relay 1 C (common)
8	Relay NO (normally open)
9	Relay 1 NC (normally closed)
10	INPUT 1/2 common

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 CP



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



Optional - []

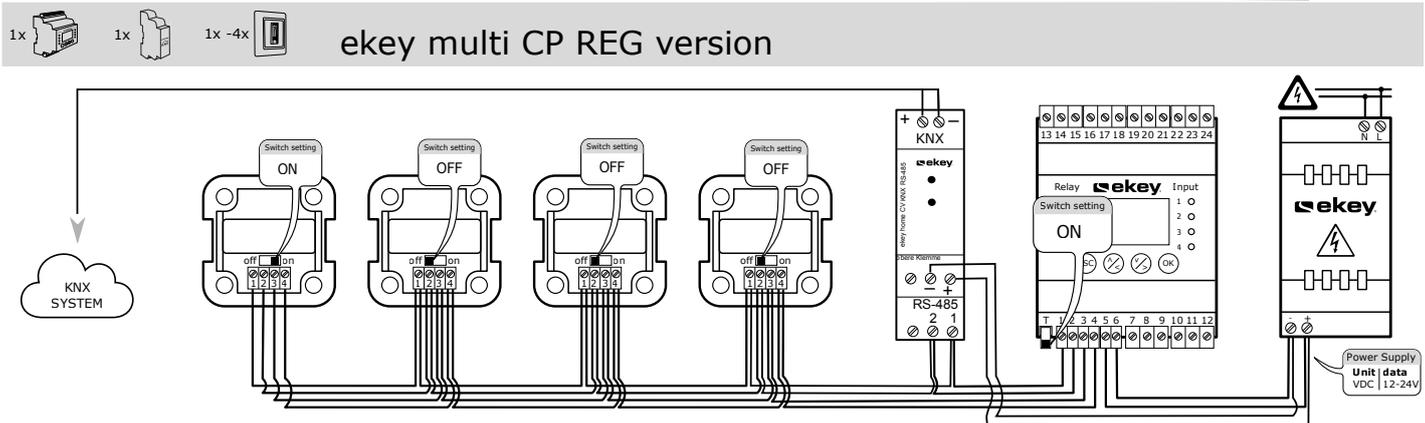
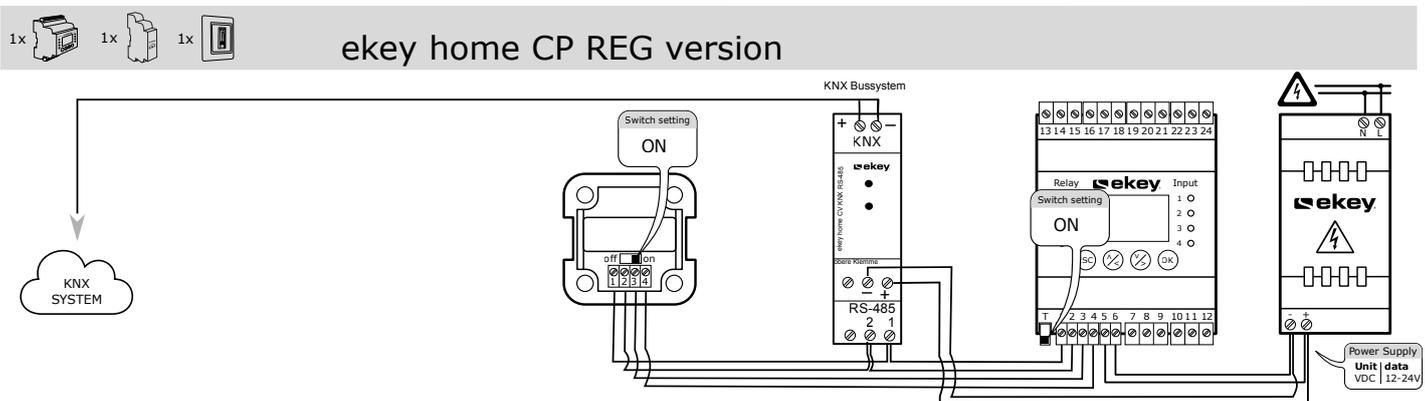
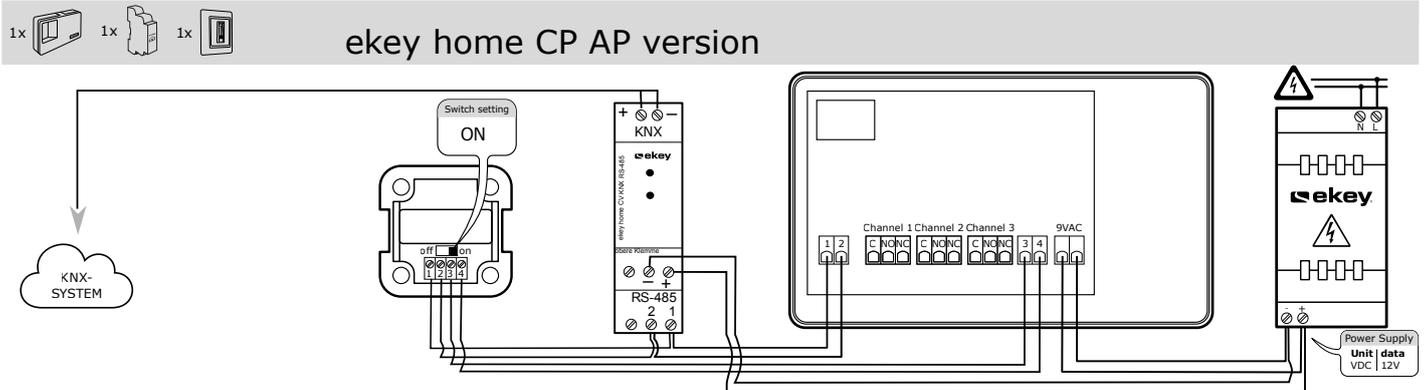
Cable recommendation: J-Y(ST)Y 4 x 2 x 0,8mm

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 (8-24 VDC)
7	Relay 1 C (common)
8	Relay 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!

ekey CV KNX wiring diagram



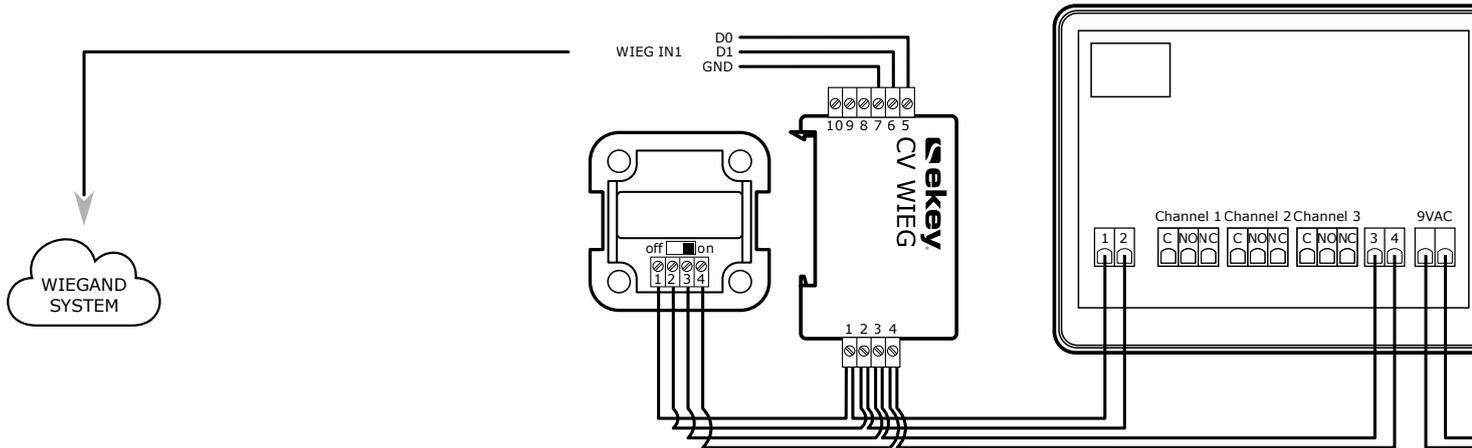
Cable recommendation: J-Y(ST)Y 4 x 2 x 0,8mm



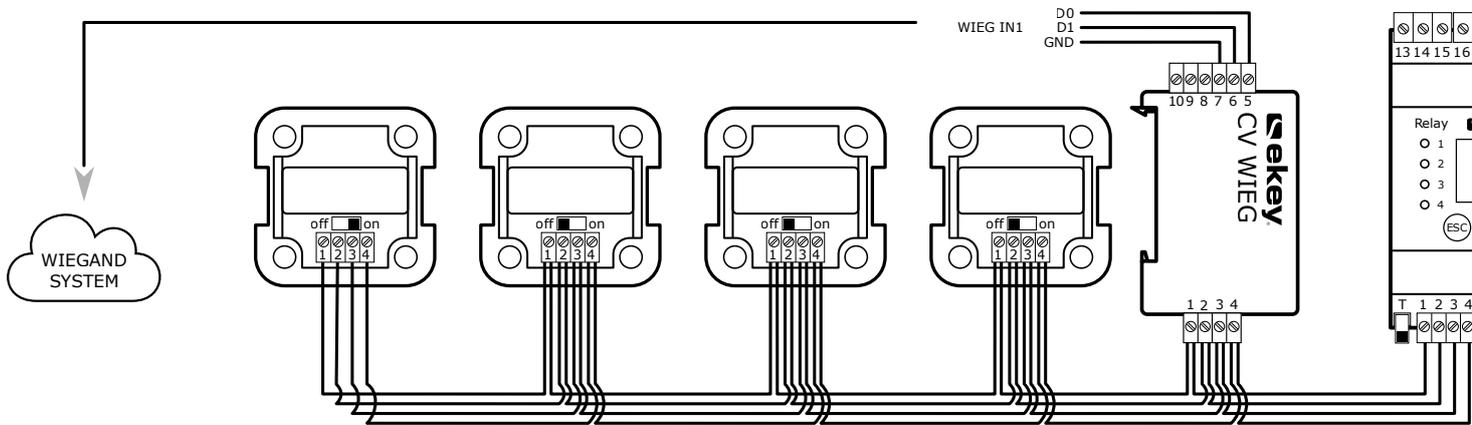
Pin	Description
1	RS-485 (Clamp 1)
2	RS-485 (Clamp 2)
+	Power supply + VDC
-	Power supply - (GND)
KNX +	KNX +
KNX -	KNX -

ekey home and ekey multi CV WIEG wirin

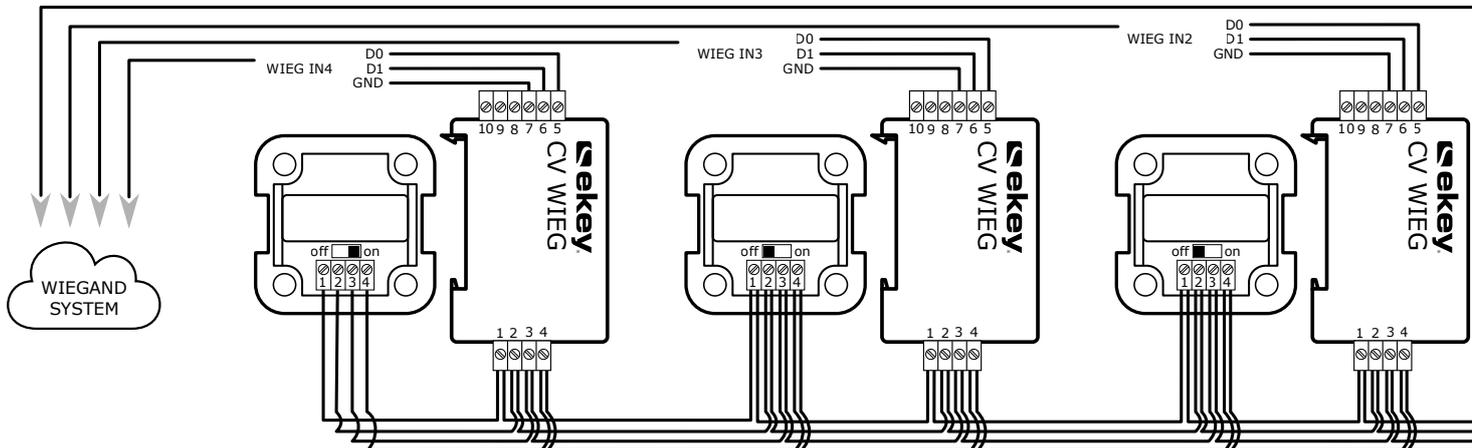
1x 1x 1x ekey home version



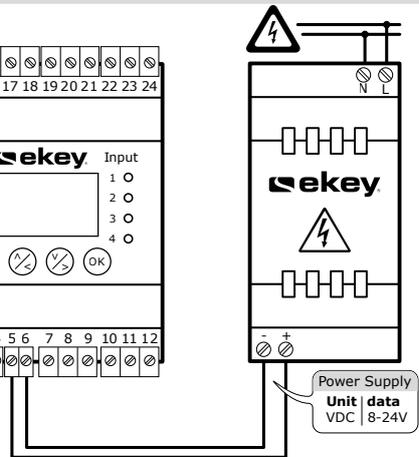
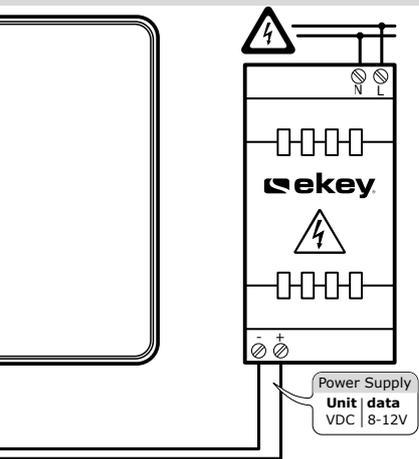
1x 1x 4x ekey multi version 1



1x 4x 4x ekey multi version 2

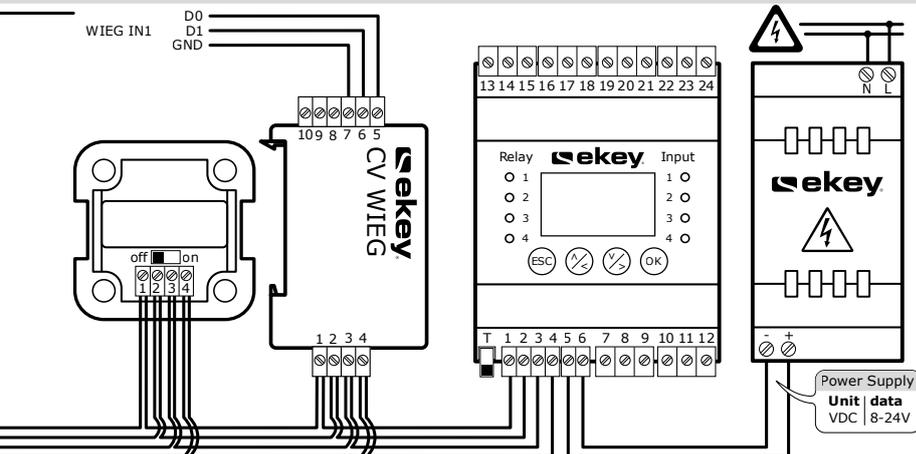


ing diagram



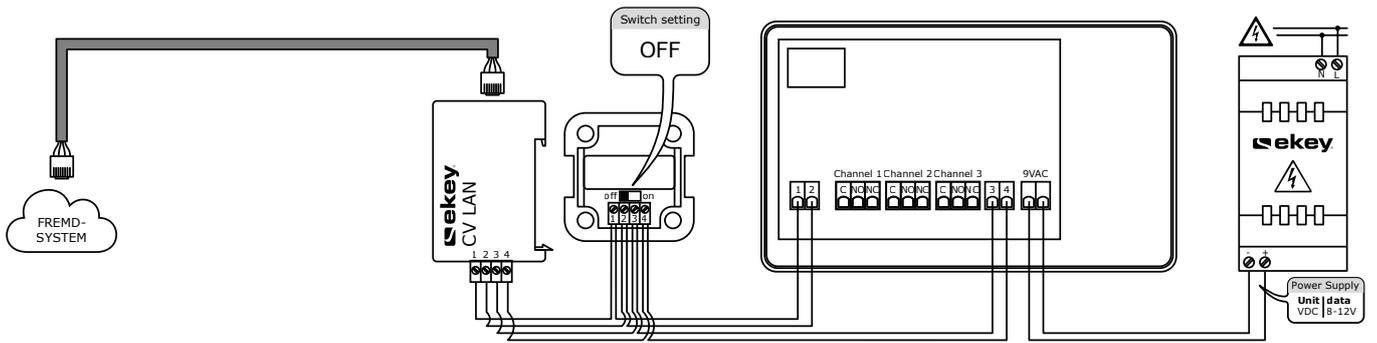
Cable recommendation: J-Y(ST)Y 4 x 2 x 0,8mm

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

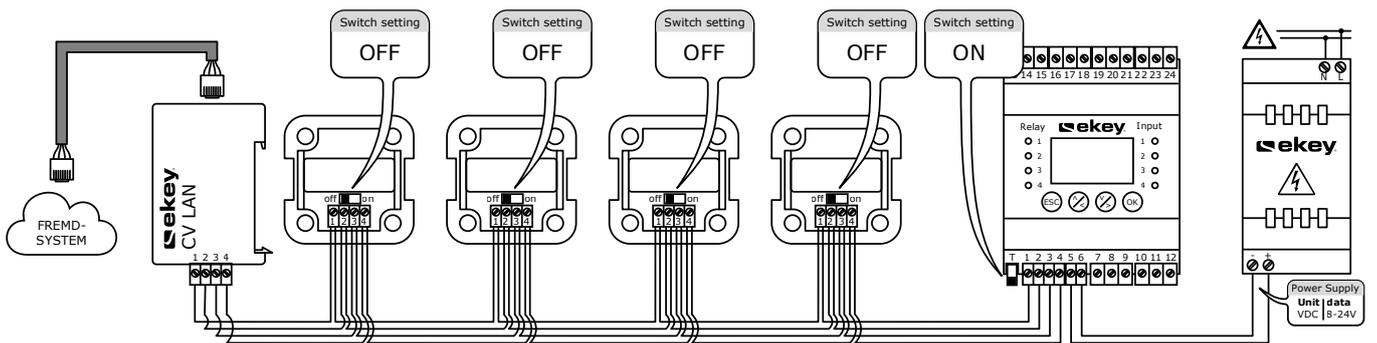


ekey CV LAN wiring diagram

1x 1x 1x ekey home version



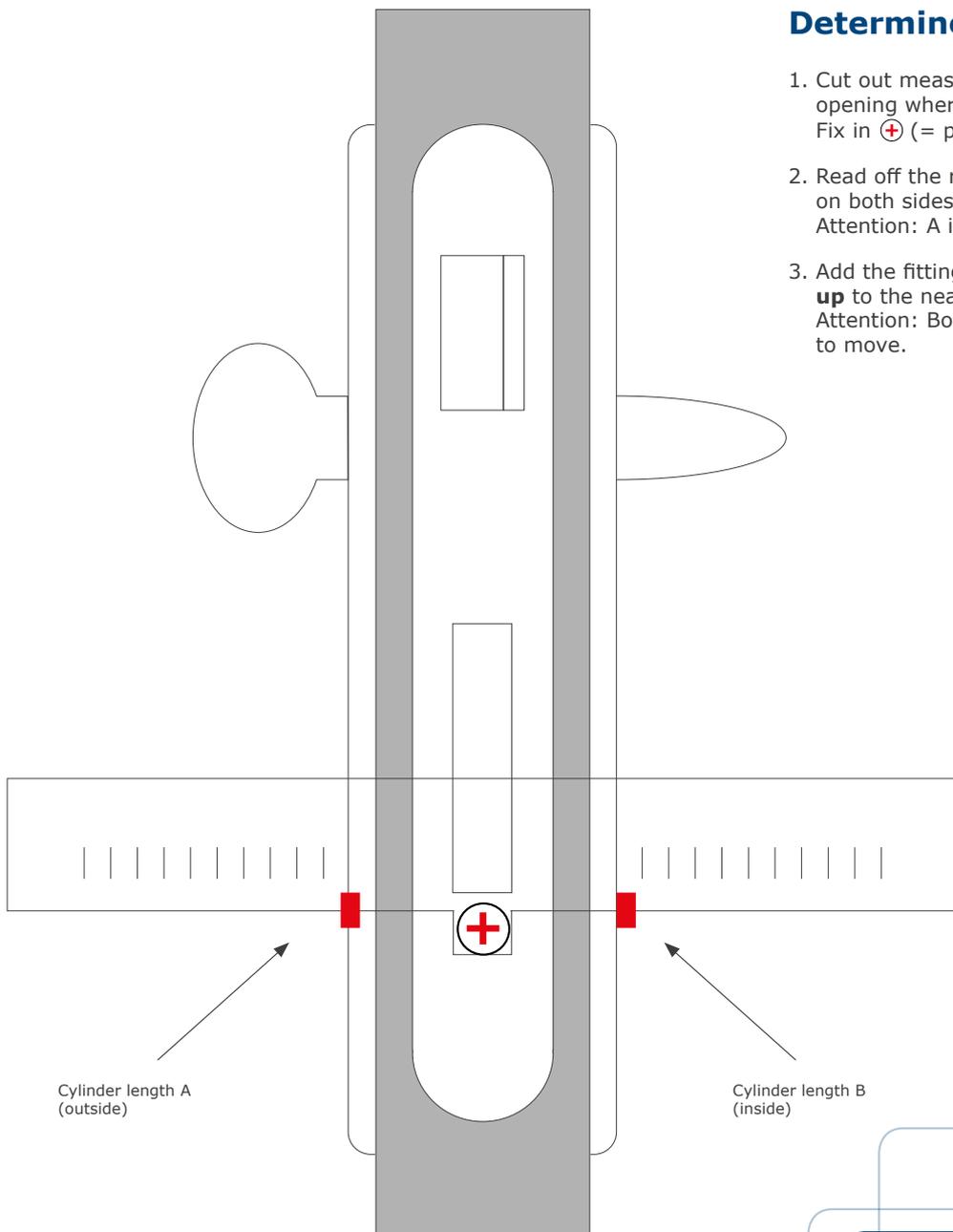
1x 1x 4x ekey multi version



Cable recommendation: J-Y(ST)Y 4 x 2 x 0,8mm

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

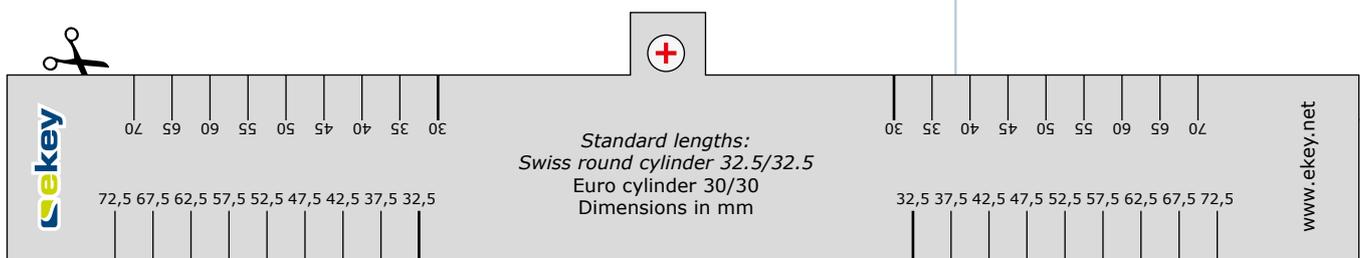
ekey lock - cylinder length

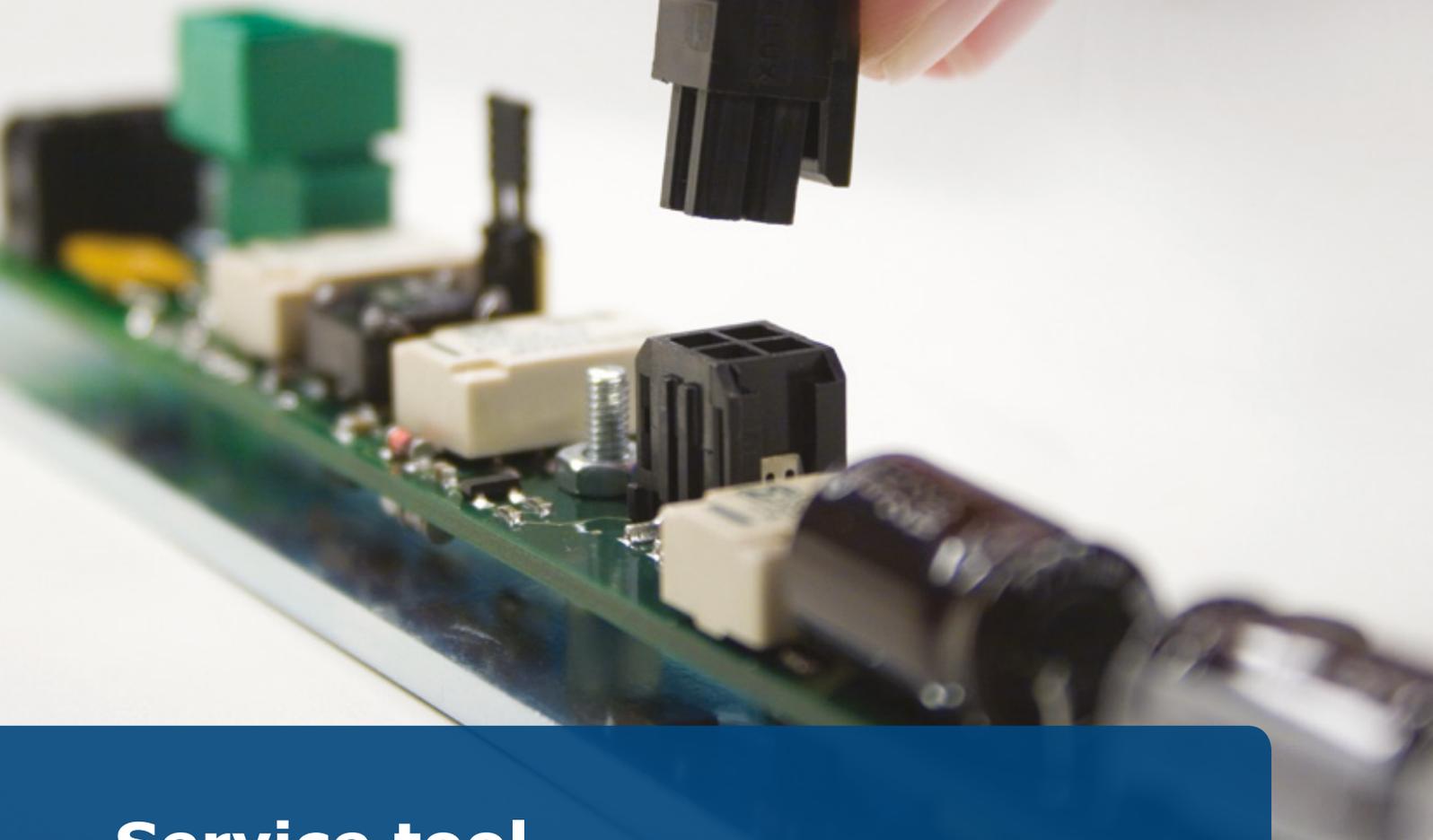


Determine cylinder length:

1. Cut out measuring gauge and slide it into the opening where the lock cylinder should be. 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
101 255	ekey home/multi Servicekit
	<p>For software updates of</p> <ul style="list-style-type: none"> • 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) <p>Scope of delivery: USB converter, software, USB cable, power supply, matching cable harnesses</p>



Part no.	Description
101 680	ekey dismounting suction cup
	For releasing the ekey finger scanner mounting frame and ekey keypad design elements.



ekey compatibility list

Makes	Converter	Control panels							
		ekey home CP WM		ekey home CP DRM		ekey home CP mini*		ekey multi CP DRM	
		1	3	1	2	1	2	4	
	ekey home FS WM 2.0	●	●	●	●	●	●	●	
	LAN	●	●	●	●	●	●	●	
	WIEG	●	●	●	●	●	●	●	
	KNX	●	●	●	●	●	●	●	
	ekey home FS WM 2.0 RFID	●	●	●	●	●	●	●	
	LAN	●	●	●	●	●	●	●	
	WIEG	●	●	●	●	●	●	●	
	KNX	●	●	●	●	●	●	●	
	ekey home FS OM E/I	●	●	●	●	●	●	●	
	LAN	●	●	●	●	●	●	●	
	WIEG	●	●	●	●	●	●	●	
	KNX	●	●	●	●	●	●	●	
	ekey home FS OM E/I RFID	●	●	●	●	●	●	●	
	LAN	●	●	●	●	●	●	●	
	WIEG	●	●	●	●	●	●	●	
	KNX	●	●	●	●	●	●	●	
	ekey home FS IN 2.0	●	●	●	●	●	●	●	
	LAN	●	●	●	●	●	●	●	
	WIEG	●	●	●	●	●	●	●	
	KNX	●	●	●	●	●	●	●	
	ekey home FS IN 2.0 RFID	●	●	●	●	●	●	●	
	LAN	●	●	●	●	●	●	●	
	WIEG	●	●	●	●	●	●	●	
	KNX	●	●	●	●	●	●	●	
	ekey home FS IN 2.0 BT	●	●	●	●	●	●	●	
	LAN	●	●	●	●	●	●	●	
	WIEG	●	●	●	●	●	●	●	
	KNX	●	●	●	●	●	●	●	
	ekey home FS IN 2.0 BT RFID	●	●	●	●	●	●	●	
	LAN	●	●	●	●	●	●	●	
	WIEG	●	●	●	●	●	●	●	
	KNX	●	●	●	●	●	●	●	
	ekey home KP IN	●	●	●	●	●	●	●	
	LAN	●	●	●	●	●	●	●	
	WIEG	●	●	●	●	●	●	●	
	KNX	●	●	●	●	●	●	●	

*Only ekeyEvent1 can be triggered



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