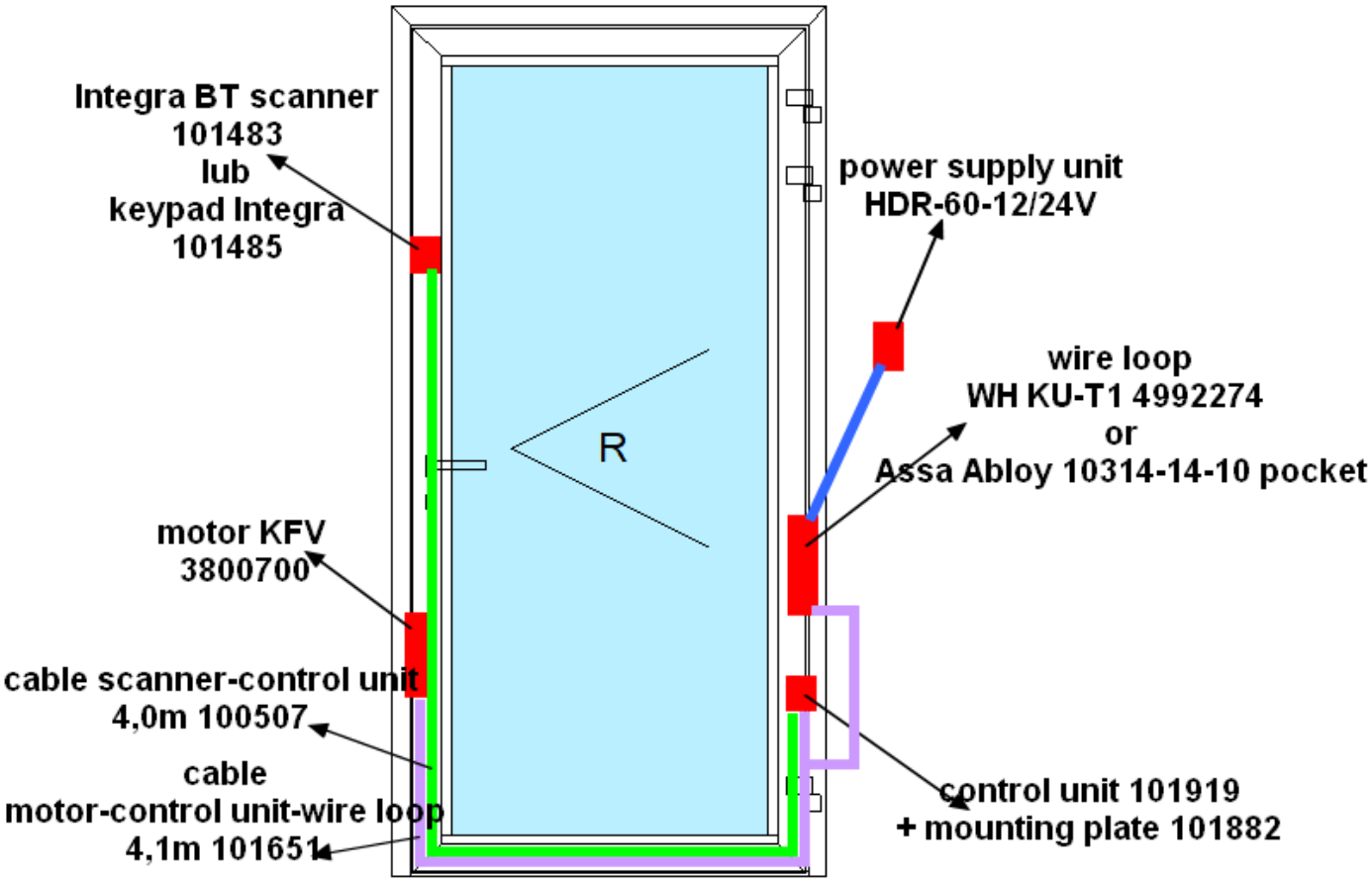
ACTIVATION

Ekey – Scanner Integra BT

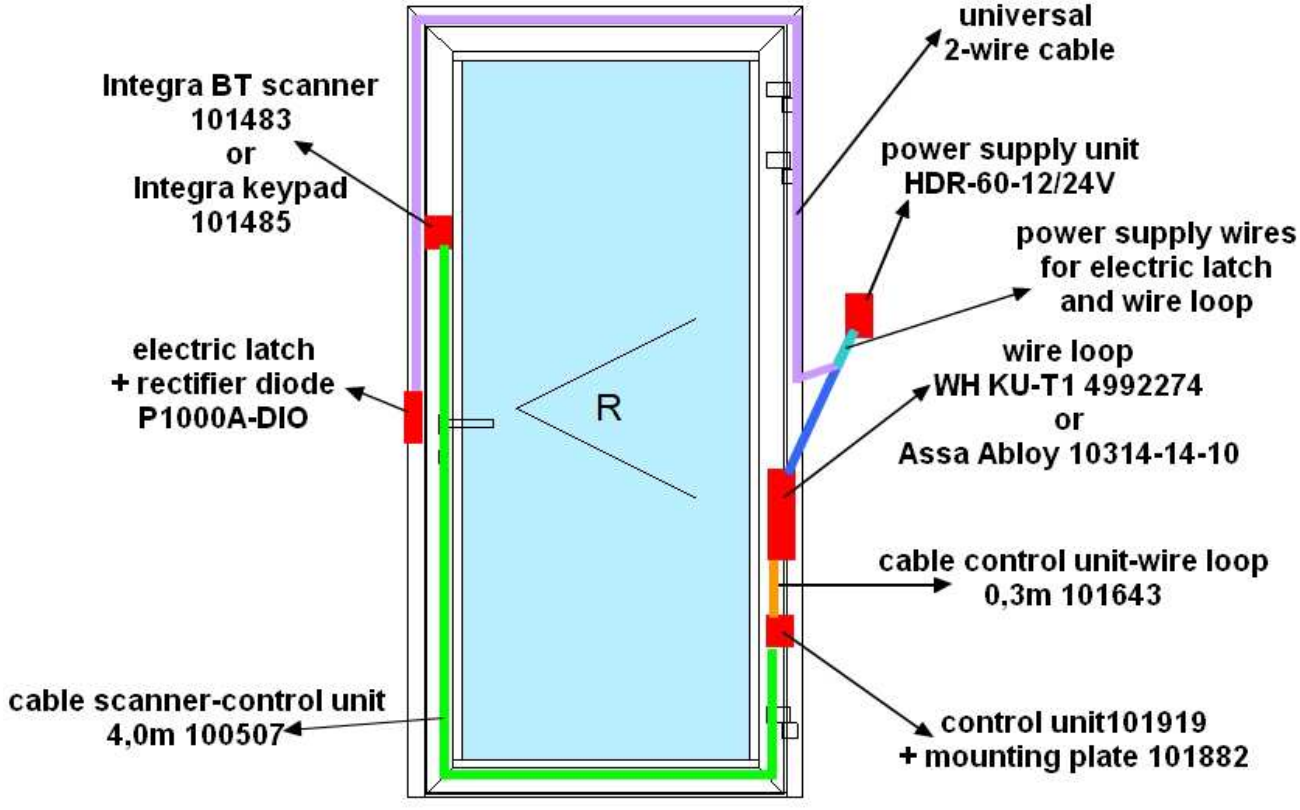
- fingerprint scanner Ekey home FS IN 2.0 D Bluetooth (101483)

Ekey electronics in our doors is always complete and fully connected, the network ends with a regular power supply HDR-60 (24V for KFV and GU locks, 12V for Winkhaus locks). Connecting the power supply to power as well as reconnecting the power supply with the cable transfer/electric latch is a customer's responsibility – we suggest to have an electrician do the wiring. See below for a quick manual.

Connection plan for motor-based solution



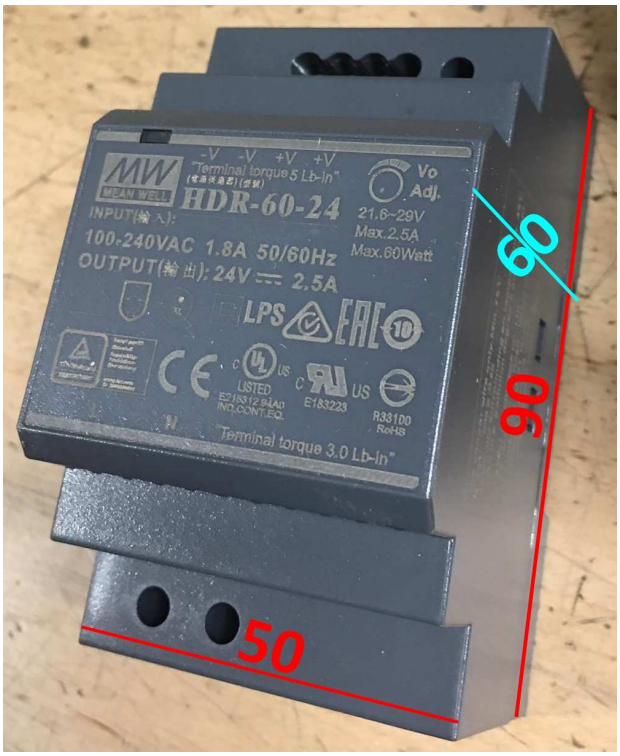
Connection plan for electric latch

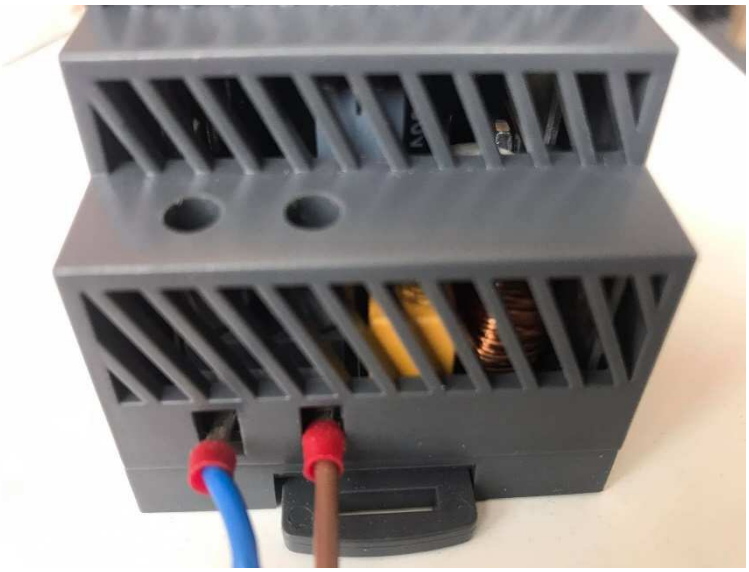


Power supply specification:

- voltage: 85-264VAC lub 120-370VDC
- montage DIN TS35 / 7.5 lub 15
- work temperature from -30 to +70°C
- 0 load power consumption <0.3W
- adjustable voltage
- overload and overvoltage protection
- air cooled
- compatible with LPS
- II isolation class
- LED work signal
- compliant with standards UL-60950-1/508/1310, EN60950-1/61558-2-16
- 3 year warranty

HDR-60-12	**12V, 0~4.5A**	**+/-1%**	**120mV**	**88%**	**52.5x90x54.5mm**
HDR-60-24	**24V, 0~2.5A**	**+/-1%**	**150mV**	**90%**	**52.5x90x54.5mm**





Left photo:

- **brown** – minus from electric latch (only available for doors with electric latch, not present for motor-based locks)

- thin brown – minus from cable transfer

- thin white – plus from cable transfer

- **blue** – plus from electric latch (only available for doors with electric latch, not present for motor-based locks)

Right photo:

- **blue** and **brown** – L and N – doesn't matter which one is first

Wires shown on the right photo are not provided by Awilux. It can, for example, be connected to a regular 230V plug.

In production, the scanner/keypad gets activated and tested, then reset back to factory settings. After plugging the scanner/keypad in on construction site, it needs to be activated and configured.

- first plug-in

Installation and activation

Activating the system

ATTENTION

Mount and cable the product correctly before connecting power.
Failure to do so will create a risk of possible property damage!
Do not connect the power supply beforehand!

Mount the system in accordance with the supplied mounting instructions.

Cable the system in accordance with the supplied wiring diagram.

Using the finger scanner

Step	Action	Display	
1st	Ensure safe installation of the devices. Close the covers.		-
2nd	Connect the power supply to the mains.		The top status LED on the *ekey home CP mini 1* and *ekey home CP mini 2* alternates between flashing green and orange and the LED on the *ekey home CP micro 1* flashes green slowly: default setting.
3rd	No action required.		Status LED on the finger scanner flashes blue.

- test – checking the wiring

Performing test mode

You can check the cabling with the aid of test mode. Test mode only works for finger scanners.

NOTICE

A test can only take place if no administrator fingers have been stored and no mobile device has been coupled.

Connect the mains supply and perform the test within 5 minutes. If 5 minutes have elapsed, the mains supply will have to be reconnected in order to conduct this test.

Step	Action	Description	Display	
1st		Place a finger on the sensor and leave it there for longer than 3 sec.		The status LED flashes blue.
2nd		Remove the finger from the sensor within the next 2 sec.		The status LED on the finger scanner lights up green. The top status LED on the *ekey home CP mini 1* or *ekey home CP mini 2* lights up green and the LED on the *ekey home CP micro 1* lights up green.

The relay switches.

NOTICE

This means that you can keep your finger on the sensor for up to 5 sec. If the finger is kept on the sensor for longer than this, the relay will not switch.

At this moment it is suggested to have the **ekey home** mobile app installed. It's not necessary though.

- administrator fingerprint configuration (no ekey home app)

4 fingers need to be programmed following the instruction below. Afterwards, doors should be operable using those fingers.

Storing administrator fingers and configuring normal mode

The finger scanner is ready to store the administrator fingers. The administrator fingers are used for programming the system. However, they are also able to open doors (like user fingers).

You must store 4 administrator fingers. We recommend storing 2 fingers of 2 different people for this purpose.

Step	Action	Description	Display	
1st		Perform three Finger Touches on the sensor within 5 sec. This will take you to the Admin menu.		Status LED lights up orange, function LEDs flash green.
2nd		Swipe administrator finger 1 over the sensor to store it. Repeat this step at least twice. Between each individual finger swipe, the finger scanner lights up orange if the finger storing process is not complete. During finger storage (after the first finger has been swiped over the sensor), no more than 10 sec may pass between each swipe. Otherwise, the finger storing process will be aborted.		Status LED lights up green/All LEDs light up green.
				Status LED and left-hand function LED light up green.
				Status LED lights up red/All LEDs light up red.
				Status LED lights up green, function LEDs light up red.
		The quality of the fingerprint is acceptable. However, it may be possible to improve the quality by swiping the finger again. If it has not been possible to obtain a very good-quality image after 6 fingerprints (), a good-quality image will be accepted.		

Step	Action	Description	Display	
		Administrator finger 1 was not stored. Swipe the finger over the sensor again.	-	-
3rd	No action required.	-		Status LED lights up orange, function LEDs flash green.
4th		To store administrator fingers 2, 3, and 4, carry out steps 2 and 3 for administrator fingers 2, 3, and 4.		Status LED lights up blue.
All administrator fingers were successfully stored. The system is in normal mode.				

- administrator fingerprint configuration (with ekey home app)

Coupling a mobile device for the first time

For first-time coupling, you will need the device coupling code and the app security code. Both codes are factory-set as 9999.

Step	Instruction	Display
1st	Start the *ekey home app*.	
2nd	Touch the input field (Android) or press Search (iOS). The app searches for available Bluetooth devices.	-
3rd	Select your ekey Bluetooth finger scanner.	-
4th	Android only: Press Login.	-
5th	Enter the default device coupling code 9999.	 The status LED lights up blue, the left-hand function LED lights up orange.
6th	Press Next. The mobile device is coupled with the Bluetooth finger scanner.	
7th	Enter a new 6-digit device coupling code. For security reasons, you must change the default device coupling code the first time you perform the system admin coupling process. Make a note of this code, as you will need it to couple additional mobile devices.	-
8th	Write your new device coupling code here: _____.	
9th	Press Change (Android) or Next (iOS).	
10th	Enter the default app security code 9999.	
11th	Press Next.	

The coupling between the Bluetooth finger scanner and the mobile device is established. The system is in normal mode.

You can now start programming and managing the finger scan access control system via the *ekey home app*.

- if any of the steps goes wrong – the control panel should be restored back to factory settings and all the steps should be repeated. Make sure the panel is powered while reseting.

The control panel is located on the hinge side, right under the cable transfer spring, above a lower hinge. The panel is mounted on a black, plastic backplate, which needs to be unscrewed and carefully pulled out.

Control panel is a small, 10 cm black box. See below.

Resetting the system to default settings

All authorizations are permanently deleted and the system settings are reset to their defaults. Your system is then in the condition in which it was delivered to you once more.

NOTICE

Effect of resetting to the default settings:

- All identification methods are deleted irretrievably. The admin code is reset to its default setting of 9999 using the code pad.
- The control panel and registration unit are no longer coupled together.
- The relay switching duration is set to 3 s.
- The LED intensity of the finger scanner is reset to 1 (LED dimmed).
- For a Bluetooth finger scanner, the admin coupling code is reset to the default setting of 9999.
- The brightness threshold of the automatic back-illumination is reset to 10% and the brightness value of the back-illumination to 100% using the code pad.
- The acoustic and optical signaling that indicates when a button has been pressed, and the acoustic signal for door opening, are both enabled again using the code pad.

You can reset the system to its default settings either via the app (Bluetooth finger scanners only), the registration unit, the control panel, or the digital input (*ekey home control panel micro 1* only). Use whichever device is most easily accessible.

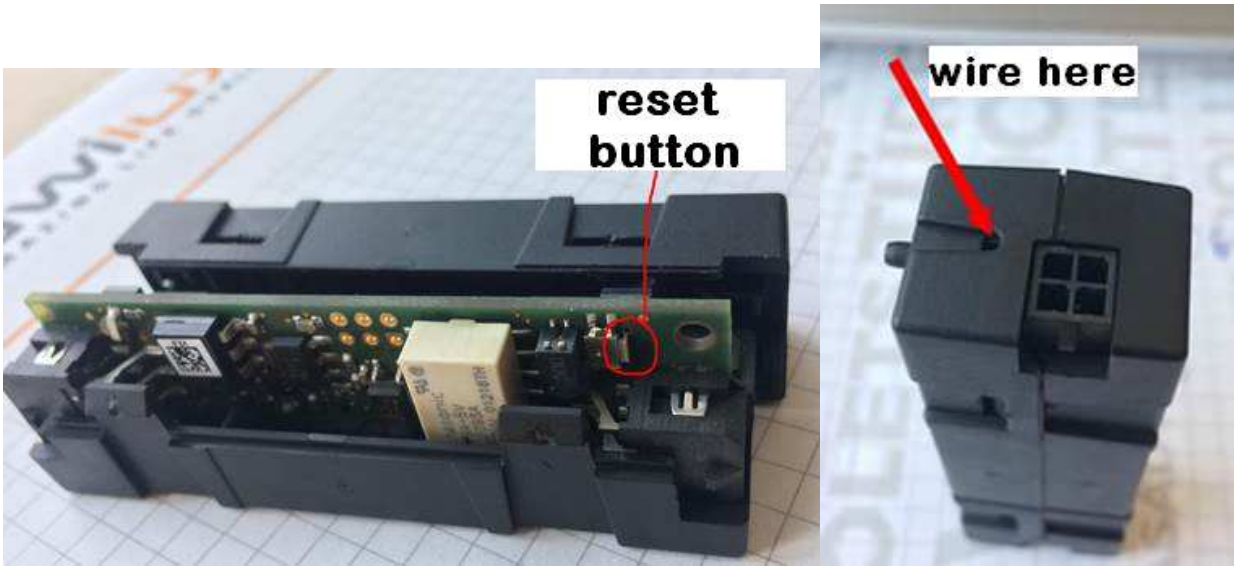
- the box does not need to be dismantled, all you need to do is to stick a small wire into the hole and hold it for about 4 seconds. Make sure the box is connected to power. The reset hole is located on the top of the box (4-PIN plug side). See pictures for reference.

Via the control panel

The process of resetting to the default settings is initiated via the control panel.

Step	Action	Description	Display	
1st		Press the button using the operating rod (*ekey home CP mini 1/2*) or a small screwdriver (*ekey home CP micro 1*) and hold it down for at least 4 sec.		The status LED of the finger scanner flashes blue and the status LEDs of the code pad flash green alternately.
2nd	Variant a Finger scanner	-		The top status LED on the *ekey home CP mini 1/2* flashes orange/green and the LED on the *ekey home CP micro 1* flashes green slowly.
3rd	Variant b Code pad			The top status LED on the *ekey home CP mini 1/2* flashes green and the LED on the *ekey home CP micro 1* flashes green slowly.

The system was reset to the default settings. You can now reactivate the system.



More detailed instructions should be attached to your order.

This instruction, as well as the Ekey operating instructions, can all be found on our website: **https://www.awilux.pl/**