

Data sheet / Manual

Contents

1. Before you begin	1
INSTALLATION OF OKE MECHANISMS	2
2. Power sockets	2
3. USB sockets	3
4. RJ45 sockets	4
5. Switches	6
INSTALLATION OF FRAMES	8
6. Horizontal installation	8
7. Vertical installation	10
8. Conditions for safe installation and operation	12
9. Conformity	12

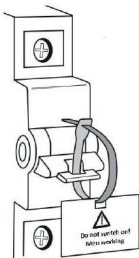
1. Before you begin

(1.1) **IMPORTANT!** Disconnect the voltage and lock the switching devices in the OFF position to avoid electric shock.

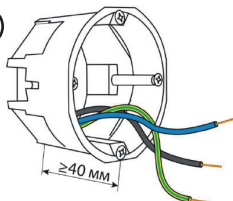
(1.2) It is recommended to install the device in a flush mounting box with a distance between the fixing screws of 60 mm and a depth of at least 40 mm.

(1.3) For your safety, make sure that there is no dangerous potential on the L (N and PE) wires and no voltage between all wires using a voltage indicator.

1.1



1.2



1.3



Installation of OKE mechanisms

2. Power sockets

(2.1) Remove the front plate from the device by unscrewing the central screw.

(2.2) Insert the stripped wire ends (≈ 10 mm) into the terminals in accordance with markings N, $\oplus$ and L.

Note: The stripped wire ends must be inserted into the terminals up to their insulation in order to exclude any possible touching.

Connect the wires in the following order: first is the protective ground wire PE (middle terminal $\oplus$), then the neutral wire, and finally the phase wire.

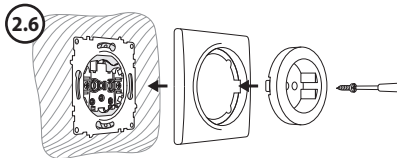
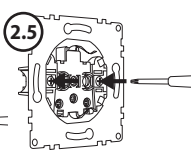
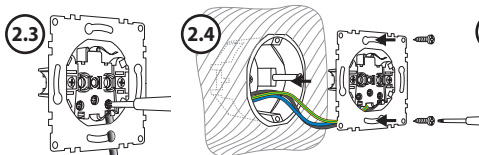
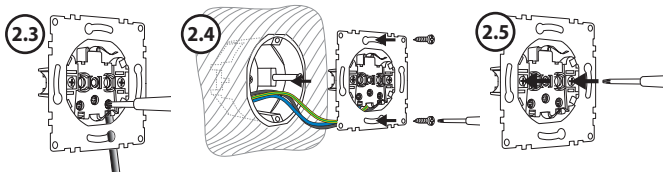
Note: It is recommended that the neutral and phase wires be installed in the same order in all sockets used in your home.

(2.3) Fix the wires in the clamps by tightening the screws with a Phillips screwdriver. Gently pull each wire to make sure they are firmly fixed.

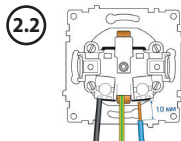
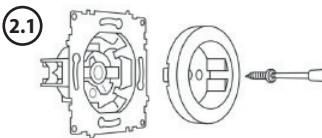
(2.4) Insert the socket into the junction box. Fix the metal ring with screws.

(2.5) If it is impossible to use screws, fix the device with the claws by tightening the screws on the sides of the front of the device. Make sure the claws do not contact the wires.

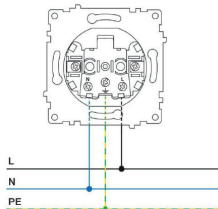
(2.6) Install the frame (please check p. #). Insert the front cover and tighten it with the screw. The front cover thereby fixes the decorative frame.



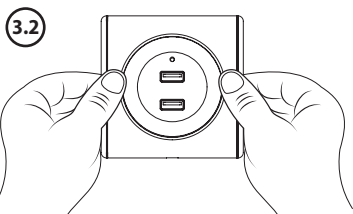
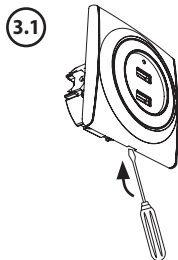
(2.7) Ready for use!



Wiring diagram



3. USB sockets

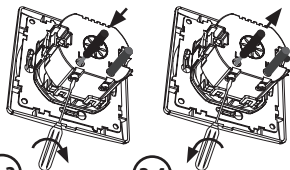


(3.1) Remove the cover frame (3.2) and front plate, prying it off the device with a screwdriver.

Connecting:

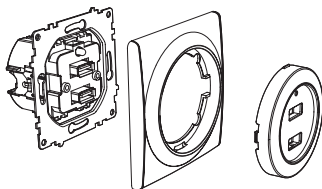
Insert the stripped ends of the wires into the clamps in accordance with the diagram. If necessary, loosen the terminal by unscrewing it.

(3.3) Insert the wire(s), then tighten the screw.



Disconnecting:

(3.4) Loosen the terminal by unscrewing it, then pull the wire(s).



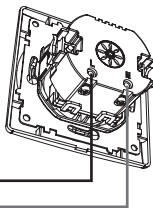
(3.5) Install the device

(3.6) Fix the cover frame

(3.7) Install the front plate by snapping it onto the front part of the device.

This product is equipped with a shut-off device. Please make sure the wiring is equipped with an appropriate shut-off system (for example, a circuit breaker).

Electrical connection diagram



(3.8) Ready for use!

4. RJ45 sockets

(4.1) Remove the front plate by removing the center screw.

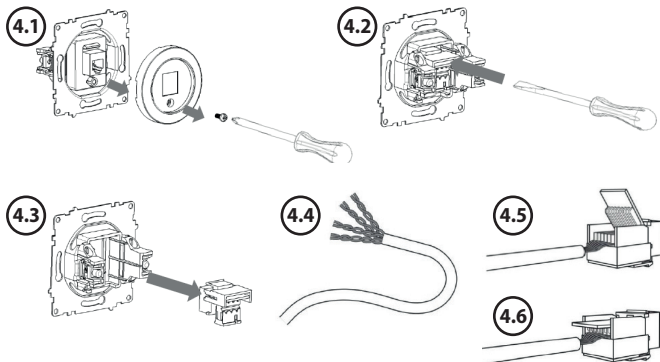
(4.2) Press the latch tab of the socket with a flat screwdriver

(4.3) and remove the RJ jack from the device.

(4.4) Remove the outer insulation from the communication cable ($\approx 20\text{--}25\text{ mm}$). Release the twisted pairs of cores without unwinding them. Do not remove the insulation from the wires!

(4.5) Weave the ends of each pair to a length of up to 13 mm. Insert the wires (without stripping the insulation) into the blade terminals of the connector in accordance with the color-coding.

(4.6) Close the plastic cover until it clicks.

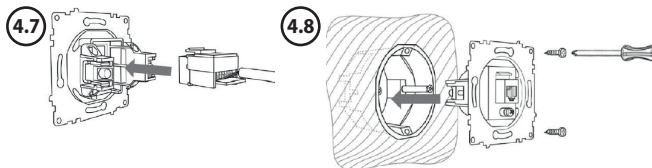


(4.7) Insert the RJ jack with attached cable into the device by snapping it into the mounting hole.

(4.8) Insert the socket with the connected cables into the junction box in the wall.

Avoid bending and jamming wires (if necessary, remove claws).

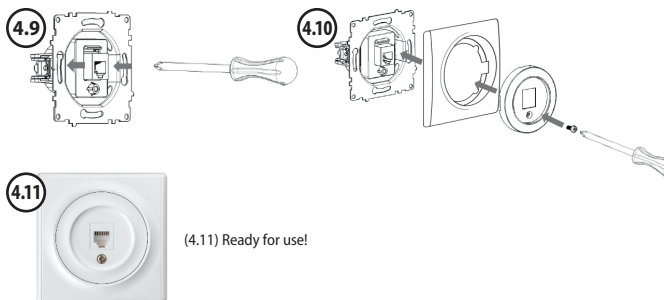
Press the metal support ring of the device to the box and fix it with screws.



(4.9) If it is impossible to use screws, fix the device with the claws by tightening the screws on the sides of the front of the device. Make sure the claws do not contact the wires.

(4.10) Install a frame (please check p. #). Insert the front plate into the frame and tighten it with a screw. The front plate fixes the cover frame.

(4.11) Ready for use!



(4.11) Ready for use!

Correspondence table for numbering and color-coding of contacts according to EIA / TIA 568-A / B:

Color Code	Pin number of socket connector							
Pin number	1	2	3	4	5	6	7	8
Color code according to EIA/TIA 568-A	green white	green	orange white	blue	blue white	orange	brown white	brown
Color code according to EIA/TIA 568-B	orange white	orange	green white	blue	blue white	green	brown white	brown

5. Switches

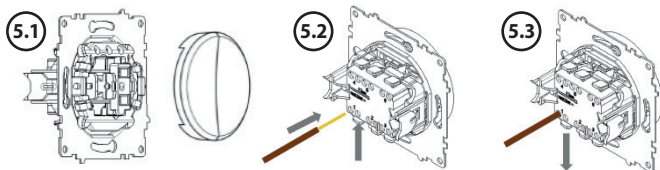
(5.1) Remove the rocker(s)

Note: For 3-rocker switch (1E3190130x-E): first remove the central rocker and then the side rockers.

(5.2) Insert the stripped wire ends (≈ 12 mm) into the terminals by pressing the clamp button.

Note: The stripped wire ends must be inserted into the terminals up to their insulation in order to exclude any possible touching.

(5.3) Release the clamp button of the terminal after the wire has been recessed properly. Gently pull each wire to make sure they are firmly fixed.



(5.4) Insert the switch into the junction box. Fix the metal ring with screws.

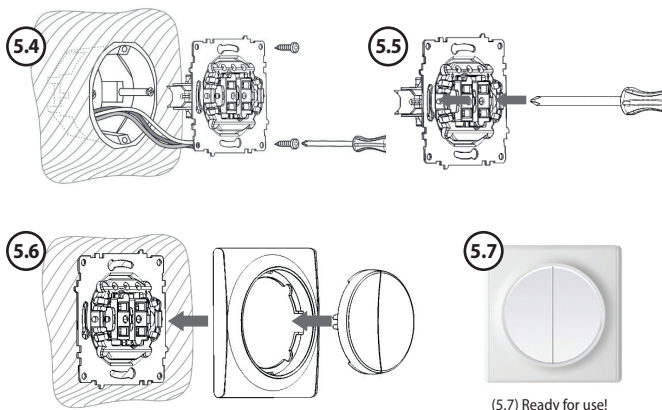
(5.5) If it is impossible to use screws, fix the device with the claws by tightening the screws on the sides of the front of the device. Make sure the claws do not contact the wires.

(5.6) Install the frame (please check p. #).

Insert the rocker(s).

Note: For three-rocker switch (1E3190130x-E): first insert the side rockers, then the central one.

Note: Use the intermediate switch (1E3145130x-E) only with the standard single rocker supplied!

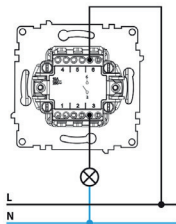


(5.7) Ready for use!

Wiring diagrams

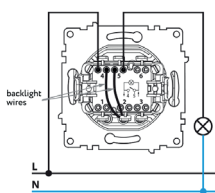
1-gang one-way switch

1E3130130x-E



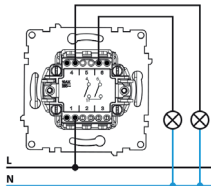
1-gang one-way switch with lighting

1E3170130x-E



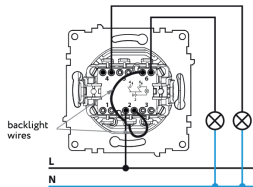
2-gang one-way switch

1E3150130x-E



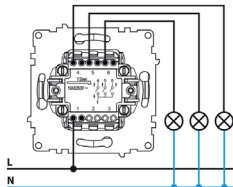
2-gang one-way switch with lighting

1E3180130x-E



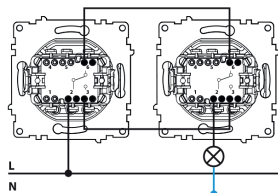
3-gang one-way switch

1E3190130x-E



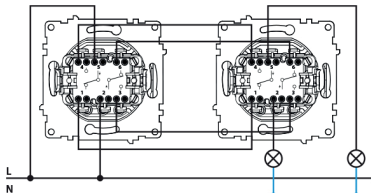
1-gang two-way switch (1E3140130x-E)

Light control from 2 points



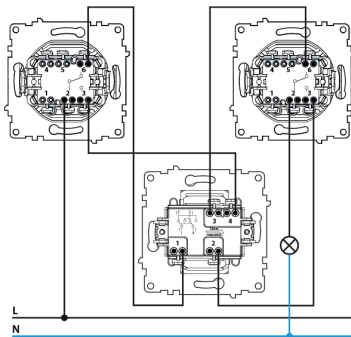
2-gang two-way switch (1E3160130x-E)

Light control from 2 points



Intermediate switch (1E3145130x-E) + two 1-gang two-way switches (1E3140130x-E)

Light control from 3 points



6. Horizontal installation

The Florence and Garda frames are compatible with all OneKeyElectro Florence series mechanisms.

1-gang Florence frames

Please be careful when installing 1-gang Florence frames. There are special bars on the frames that indicate the right and left sides of the frame. The bars should be positioned vertically:



1-gang Garda frames

Garda frames have no side bars, so pay attention to the mounting cut-outs. They should be positioned like as follows:



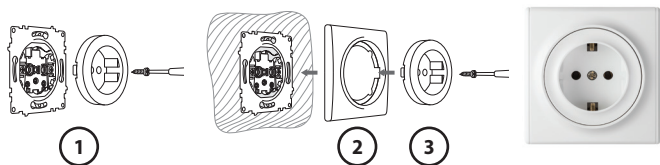
Installation with sockets

(1) Remove the front plate from the mechanism by removing the central screw

(2) Attach the frame to the mechanism and make sure that the frame fits tightly against the wall and that there are no gaps. If the frame does not fit properly, check that the mechanism is installed correctly. The mechanism's metal ring should fit tightly against the wall.

(3) Insert the front plate into the frame and tighten it with the screw. The front plate thereby fixes the frame.

Note: The front panel of the USB socket is not screwed on. Just install the front plate into the frame until it clicks.



Installation with switches

(1) Remove the rocker(s) from the mechanism.

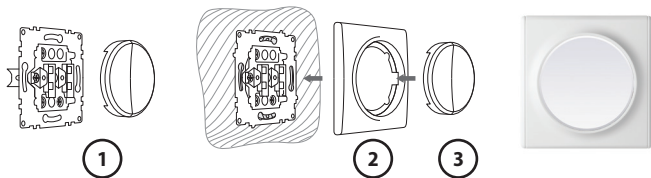
Note: For the 3-rocker mechanism (1E3190130x-E): Remove the center rocker first, and then the side rockers.

(2) Attach the frame to the mechanism and fix it until it clicks. The switch mechanism has ridges to hold the frame in place. Make sure that the frame fits tightly against the wall and that there are no gaps. If the frame does not fit tightly, check that the mechanism is installed correctly. The mechanism's metal ring should fit tightly against the wall.

(3) Insert the buttons into the slots on the switch levers.

Note: For 3-rocker switch (1E3190130x-E): Insert the two side rockers first, then the center rocker.

Note: Use the intermediate switch (1E3145130x-E) only with the standard 1-gang rocker supplied!



Multi-gang frames

The installation of multi-gang frames is done in the same way as for 1-gang frames.

- (1) Install all mechanisms after removing the front plates and rockers.
- (2) Attach the frame to the mechanisms, check if they are tight against the wall.
- (3) If there are switches and/or usb sockets in the mechanism row, fix the frame on them until it clicks.
- (4) Fix the front panels of the sockets with screws, and insert the rockers of the switches in the special slots on the levers.



7. Vertical installation

Florence frames

The Florence frames are designed for horizontal installation. If you need to install the frames in a vertical position, we have some tricky tips. Modify the frames a bit – remove unnecessary elements that interfere with vertical installation by the following scheme:

Switches



To install the switches in a vertical position, you need to:

remove the plastic strips (1) located inside the frame

Sockets



For vertical installation:

remove the plastic strips (1) and ridges on the frame (2)

Low-current sockets



For vertical installation:

remove the ridges on the frame (2)

Garda frames

1-5-gang Garda frames are designed for horizontal installation. In addition we offer 2- and 3-gang frames for vertical installation. Vertical and horizontal frames have different positioning of the mounting cutouts. Compare the following:



Horizontal



Vertical

Pay attention to the orientation of the frames when buying, 2-3-gang frames are marked as «horizontal» and «vertical». If you need to install 4-5 gang frames in a vertical position, use the tricky tips above.



8. Conditions for safe installation and operation



DANGER!

Risk of fatal injury from electric shock!

WARNING!

All work, including installation, operation and maintenance of the product should be performed by qualified electricians who have been instructed in safety precautions training for electrical installations up to 1000 V.

Electrical equipment may only be installed and assembled in accordance with the installation instructions and by qualified electricians in compliance with the applicable accident prevention regulations. Non-observance may result in damage to the device, fire or other hazards.

Danger from electric shock. Disconnect the device or load before working on it. Take into account all circuit breakers that supply dangerous voltages to the device or load.

All work should be carried out only when all current-carrying parts in the work area have been completely de-energized.

Improper installation and use may result in electric shock or fire.

No modifications or repair work may be carried out on the device.

The currently valid protective measures according to DIN VDE 0100 and the associated part must be observed and applied.

Before installation, it is necessary to carry out technical measures to ensure the safety of work performed with removal of voltage, in accordance with the above-mentioned norms and rules for labor safety.

Safety measures during installation, operation and maintenance of electrical installations must comply with national and local norms and rules.

9. Confirmity

OneKeyElectro sockets and switches comply with the following directives:

- **Low voltage Directive 2014/35/EU**
- **EMC Directive 2014/30/EU**
- **WEEE directive 2012/19/EU**

https://onekeyelectro.com/media/DoC_schuko_schutzklappen.pdf

https://onekeyelectro.com/media/DoC_schuko_normal.pdf

https://onekeyelectro.com/media/DoC_schuko_deckel.pdf

https://onekeyelectro.com/media/DoC_OKE_Data_RJ45.pdf

https://onekeyelectro.com/media/DoC_OKE_USB.pdf

https://onekeyelectro.com/media/DoC_OKE_Switch.pdf

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