



Manual

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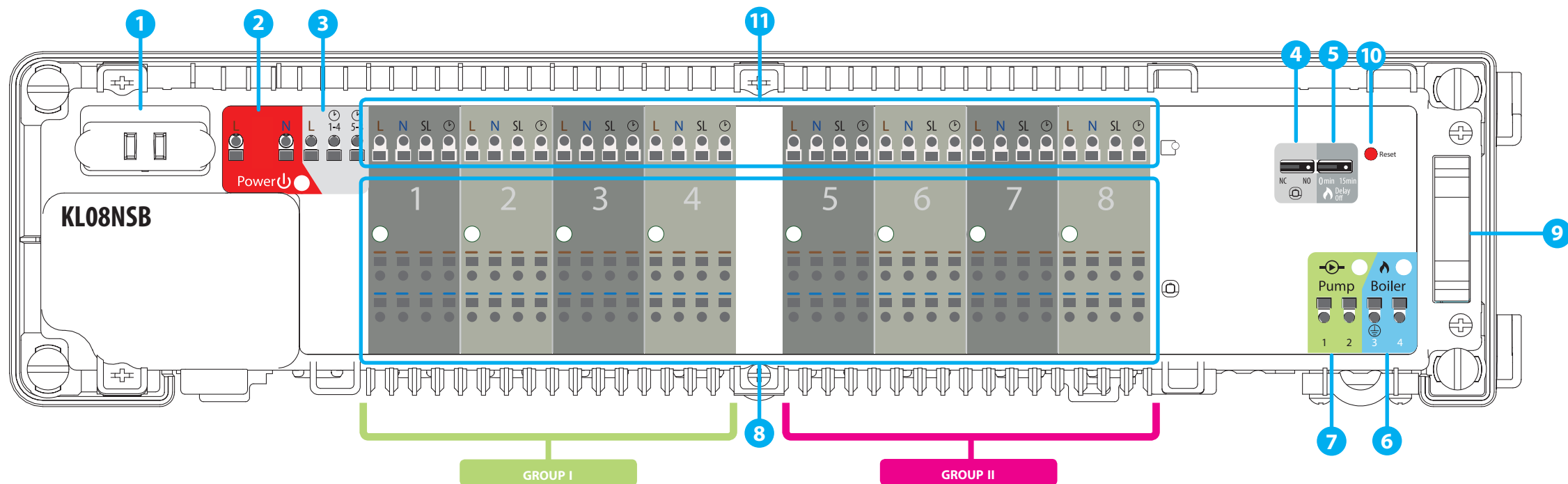


## Wiring centre description

1. Cartridge fuse 5 x 20 mm 12A
2. Power supply
3. NSB function terminals
4. NC/NO jumper (actuator type)

5. „Delay” jumper
6. Boiler control output
7. Pump control output
8. Output terminals for actuators

9. Serial connector for the KL04NSB extension
10. „Reset” button
11. Terminals for thermostats



## Introduction

The KL08NSB wiring centre is a part of the iT600 system. It allows easy and quick connection of thermostats and actuators. It has integrated pump and boiler control module and overload protection. KL08NSB wiring centre is adapted to work with NC and NO type actuators (normally closed and normally open). Up to 8 thermostats can be connected to the KL08NSB, while KL04NSB extension allows to connect additional 4 thermostats (12 in total).

## Product compliance

This product complies with the essential requirements and other relevant provisions of the following EU Directives: EMC 2014/30/EU, Low Voltage Directive LVD 2014/35/EU, RoHS directive 2011/65/EU. The full text of the EU Declaration of Conformity is available at the following internet address: [www.saluslegal.com](http://www.saluslegal.com).

## Safety information

Use in accordance to national and EU regulations. Use the device as intended, keeping it in dry condition. Product for indoor use only. Installation must be carried out by a qualified person in accordance to national and EU regulations.

## Technical specification

Power Supply	230 V AC 50 Hz
Max load	3 A
Inputs	External clock (230 V)
Outputs	Pump (NO/ COM) Boiler (NO/COM) Thermoelectric actuator (230 V)
Dimensions [mm]	355 x 85 x 67

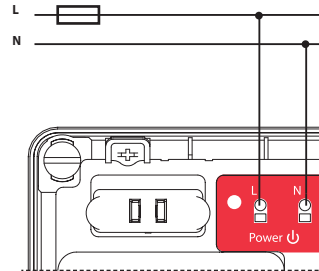
## 1. Fuse

**Note:** Replace the fuse when the wiring centre is disconnected from power supply (230V ~).

Main fuse is located under the housing cover next to power supply terminals and secures the wiring centre and the devices connected to it. Use time-delayed cartridge fuses (5x20mm) with nominal max current 12A. To replace fuse remove the fuse holder with a flat screwdriver and pull out the fuse.

## 2. Power Supply

230 V AC



Power supply for wiring centre is 230V ~, 50Hz.

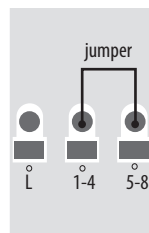
- Features of the installation:
- two-wire,
  - made in accordance with applicable regulations.

## 3. NSB („night set back” reduction) function and thermostats grouping

NSB function is activated in non-programmable Salus thermostats of the Expert NSB, HTR, BTR series via external signal. NSB 230V signal (night-time temperature reduction) is send via external clock or programmable thermostat connected to the KL08NSB wiring centre. Non-programmable thermostats are receiving NSB signal and reducing setpoint temperature (by switching to eco mode). All thermostats have to be connected using a 4-wire cable (4x0,75).

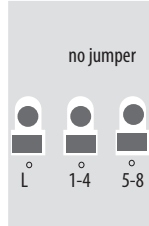
## NSB function application in combination with thermostats grouping.

### • Option 1



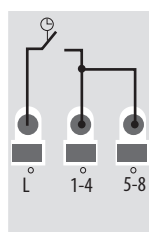
One „Master” thermostat which is common for thermostats from „Group 1” and „Group 2” (one programmable thermostat e.g. VS30, other thermostats are non-programmable e.g. VS35).

### • Option 2



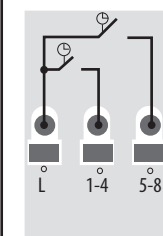
Two „Master” thermostats. One for „Group 1” and one for „Group 2” (two programmable thermostats e.g. VS30, other thermostats are non-programmable e.g., VS35).

### • Option 3



One external clock which is common for thermostats from „Group 1” and „Group 2” (one external clock + daily regulators e.g. VS35).

### • Option 4



Two external clocks. One for „Group 1” and one for „Group 2” (two external clocks + non-programmable regulators e.g. VS35).

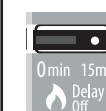
## 4. NC/NO jumper



Select the type of the thermoelectric actuator connected to the wiring centre:  
NC – actuator normally closed  
NO – actuator normally opened

**i** Jumper position change must be refreshed in the memory by pressing the Reset button (short press).

## 5. „Delay” jumper

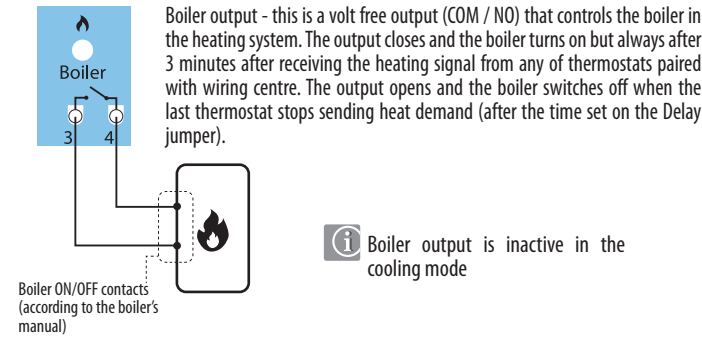


Boiler off delay time

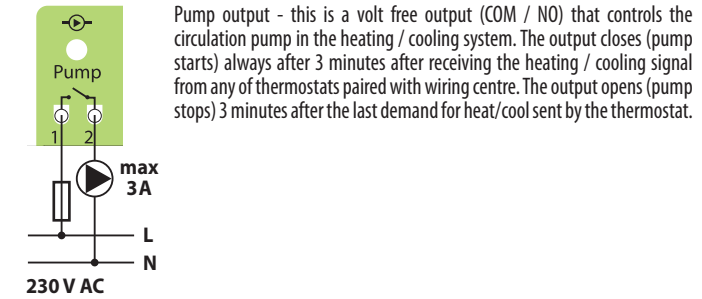
**Note:** Pump (Pump output) and boiler (Boiler output) always starts 3 minutes after receiving the heating signal from any thermostats connected wiring centre. Pump stops 3 minutes after the last call for heating sent by the thermostat and the heat source (boiler) will turn off after the time set on Delay jumper.

**i** Jumper position change must be refreshed in the memory by pressing the Reset button (short press).

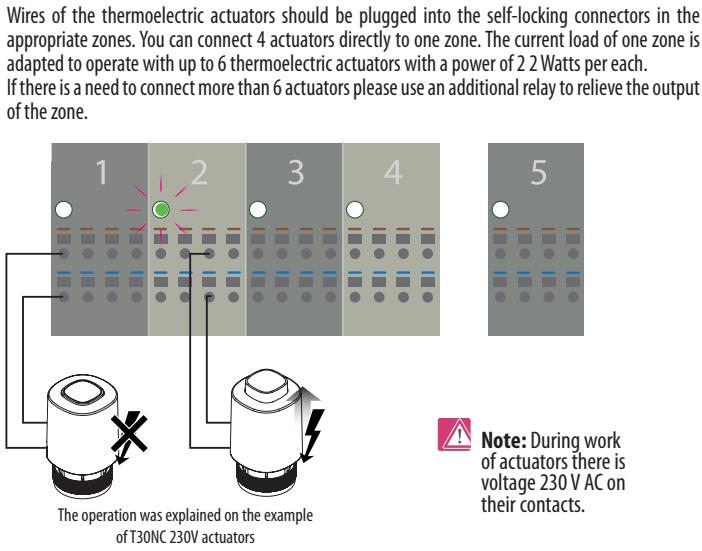
6. Boiler control output



7. Pump control output

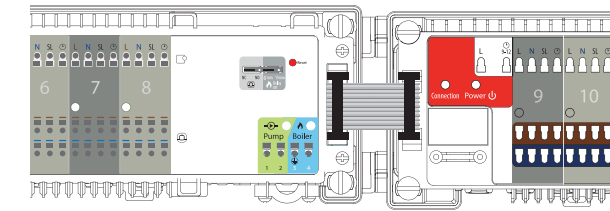


8. Terminals for actuators



9. Serial connector for the KL04NSB extension

It is used for communication between the KL08NSB wiring centre and the KL04NSB extension module. KL04NSB extension module increases functionality and expands support up to 12 zones.

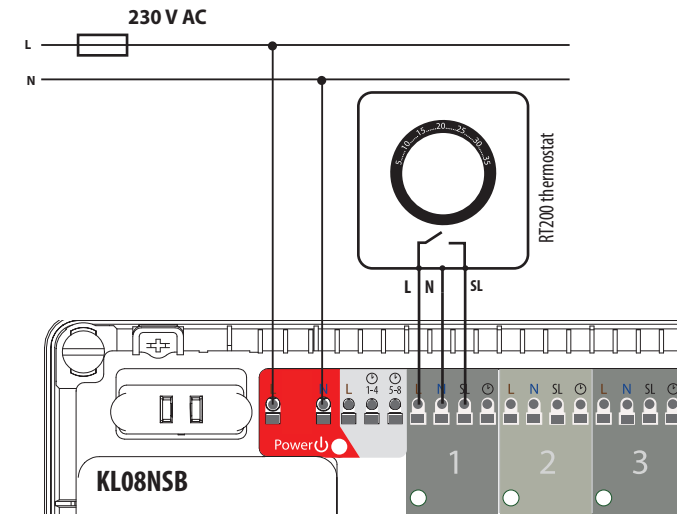


10. "Reset" button

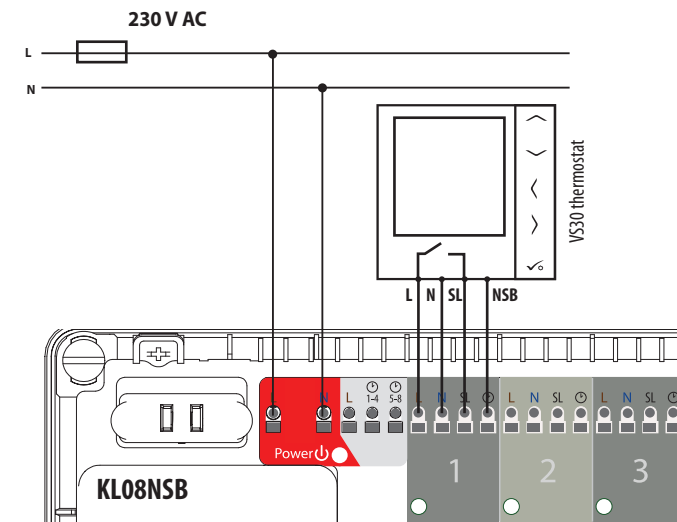
Reset - It is used to refresh the data, after switching jumpers 4 or 5.

11. Terminals for thermostats connections

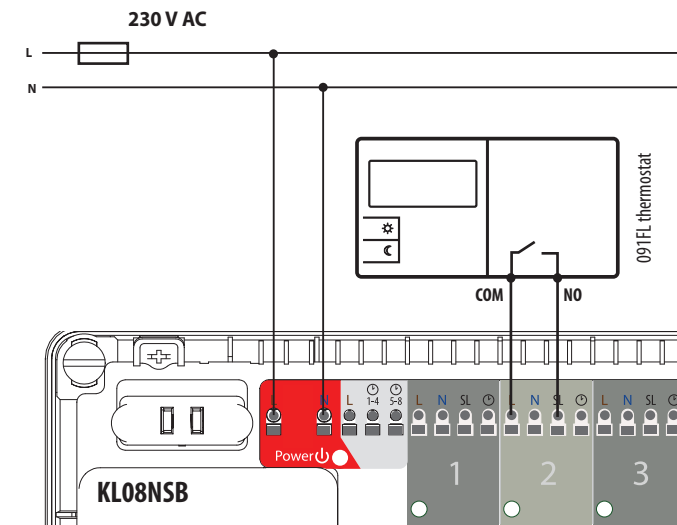
- Connecting the 230V thermostat to the KL08NSB wiring centre (e.g. RT200)



- Connecting EXPERT NSB, HTR or BTR series thermostats

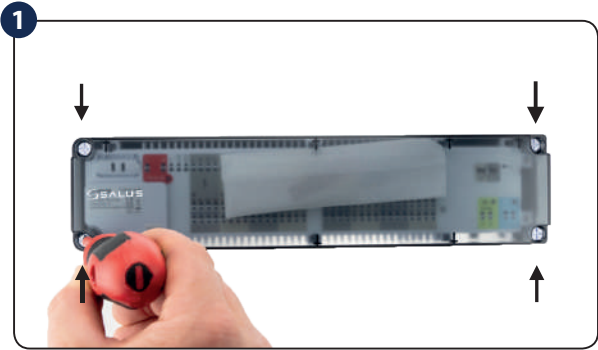


- Connecting ON/OFF battery-powered thermostat with voltage-free COM / NO output contacts (e.g. 091FL, RT310, RT510)

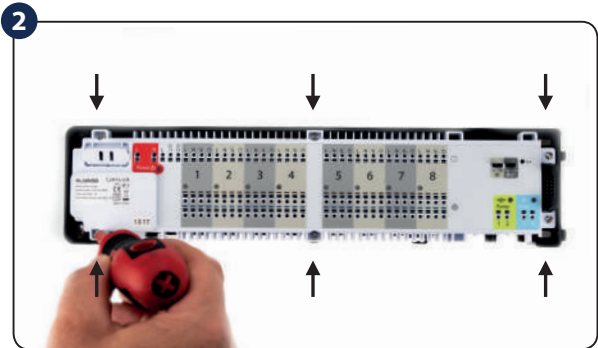


L 230 V live terminal  
⊖ NSB function terminal  
N Neutral  
SL (h) 230V input signal

Installation



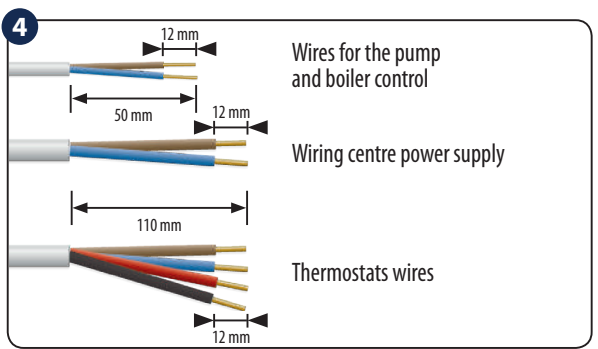
Remove the top cover of the wiring centre.



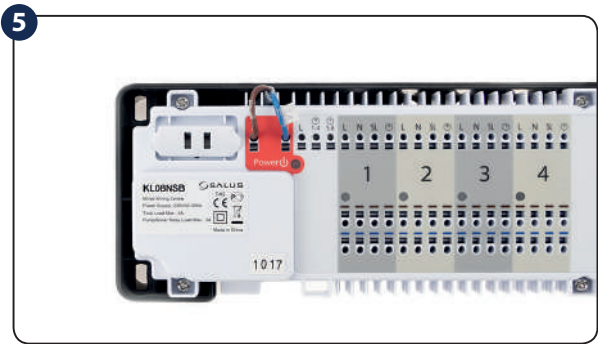
For wall mounting, unscrew the main housing (see picture). When mounting on a DIN rail, open the hooks on the back of the housing.



Attach the back housing of the wiring centre to the wall.

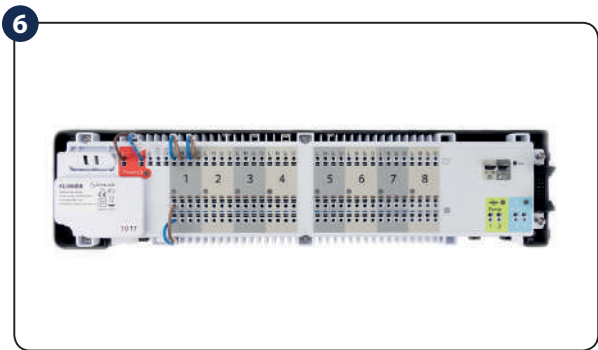


Remove the appropriate piece of insulation from the wires.

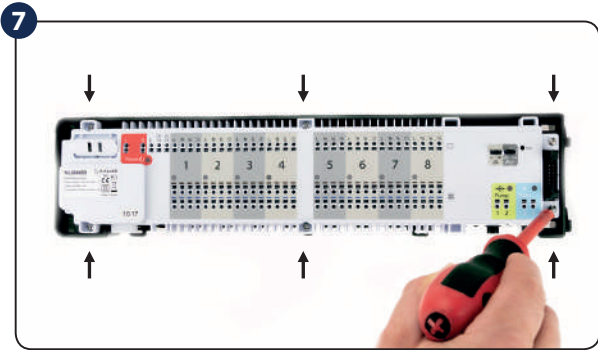


Connect the power cord

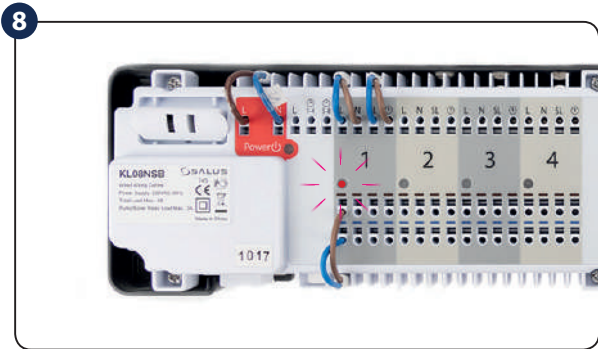
Installation - continuation



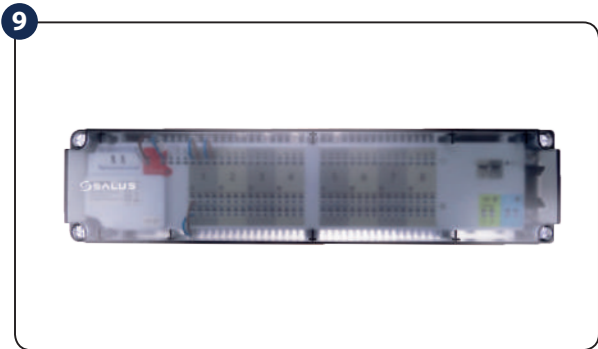
Connect the rest of the wires.



Screw the main housing of the wiring centre to the rear housing.



Make sure that all the wires are properly connected, power up the wiring centre - red LED diode will light up.



Once the installtion is done, place the top cover carefully.