SALUS CONTROLS

Wiring centre extension for 4-zone UFH
Model: KL04NSB

VII 2018

Manual

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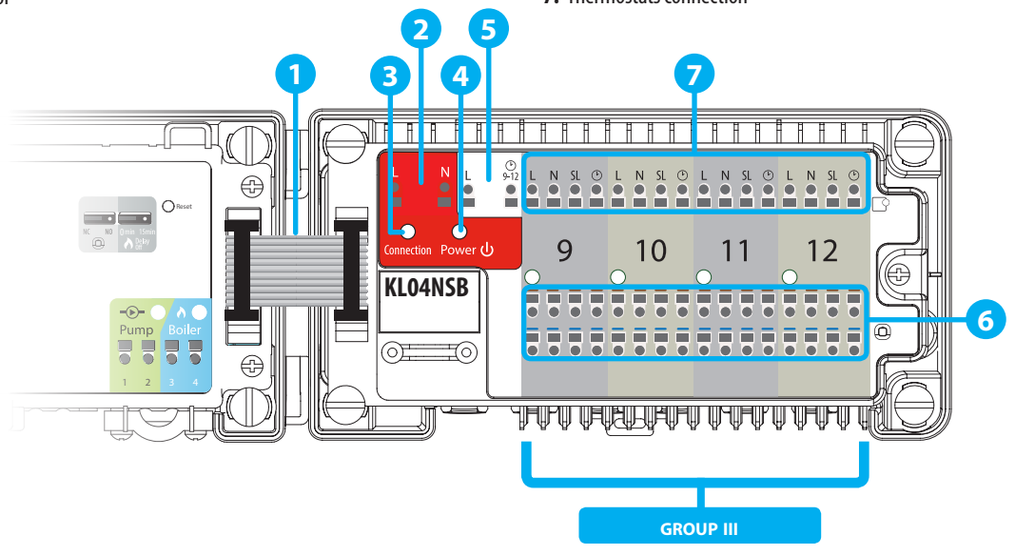
Wiring centre description

1. Serial connector
2. Power supply
3. Connection indicator
4. Power indicator
5. NSB function terminals
6. Actuators connection
7. Thermostats connection



Introduction

The KL04NSB is an easy to connect four zone extension for the KL08NSB wiring centre. It expands the system to up to12 zones 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 and RoHS directive 2011/65/EU. The full text of the EU Declaration of Conformity is available at the following internet address: www.saluslegal.com.

Safety information

Use in accordance with national and EU regulations. Device is intended for indoor use only in dry conditions. Product for indoor use only. Installation must be carried out by a qualified person in accordance to national and EU regulations.

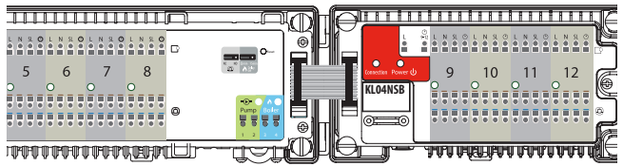
Before attempting to setup and install, make sure that the devices is not connected to any power source. Installation must be carried out by a qualified person. Incorrect installation may cause damage to the devices. The KL04NSB should not be installed in areas where it may be exposed to water or damp conditions.

Technical Information

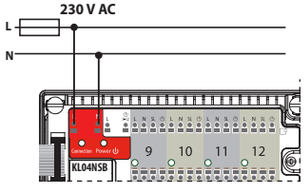
Power Supply	230 V AC
Total Load Max	3 A
Outputs	Terminals for actuators (230 V)
Dimensions [mm]	163 x 85 x 67

1. Serial connector

The Serial connector is used to connect the KL08NSN with the KL04NSB extension module to add functionality and support up to12 zones



2. Power Supply



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

Two wire installation should be made in accordance with the applicable regulations

3. Connection indicator

Connection

After successful connection of KL08NSB with KL04NSB extension module red LED will light up constantly.

4. Power indicator

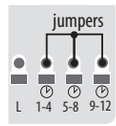
Power

After connecting of KL04NSB to the power supply, the Power red LED will light up.

5. NSB (Night Set Back reduction) function

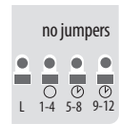
NSB function is activated in non-programmable Salus thermostats of the Expert NSB, HTR, BTR series via external signal. NSB 230 V signal (night-time temperature reduction) is sent via an external timer or programmable thermostat connected to the wiring centre. Non-programmable thermostats are receiving NSB signal and reducing setpoint temperature (by switching to eco mode). All thermostats have to be connected using a 4-wire cable (min. 4 x 0,75 mm^2, max. 4 x 1,5 mm^2).

• OPTION 1



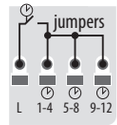
One Master thermostat which is common for thermostats from Group 1, Group 2 and Group 3 (one programmable thermostat e.g. VS30, other thermostats are non-programmable e.g. VS35).

• OPTION 2



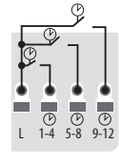
Three Master thermostats. One for Group 1 , one for Group 2 and one for Group 3 (three programmable thermostats e.g. VS30, other thermostats are non-programmable e.g., VS35).

• OPTION 3



One external clock which is common for thermostats from Group 1, Group 2 and Group 3 (one external clock + daily regulators e.g. VS35).

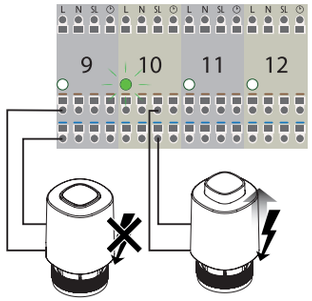
• OPTION 4



Three external clocks. One for Group 1, one for Group 2 and one for Group 3 (three external clocks + non-programmable regulators e.g. VS35).

6. Actuators connection

The actuator wires should be secured with the self locking connectors in the appropriate zone. Up to 6 actuators with a load of up to 2 Watts each can be connected to a single zone. Should more than 6 actuators be required in a zone use an additional relay to relieve the output.

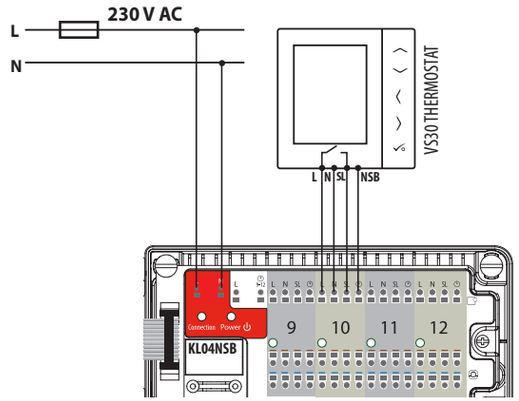


Example based on T30NC 230 V actuators

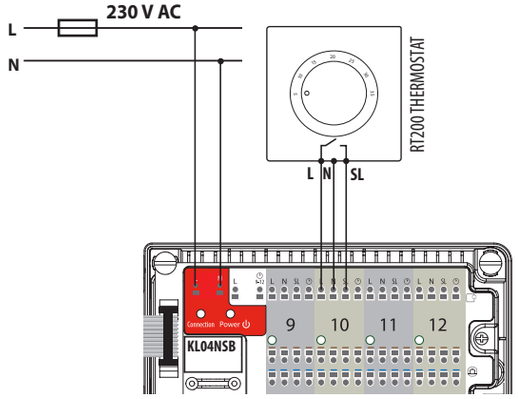
Note: 230 V AC voltage when actuators are live.

7. Thermostats connection

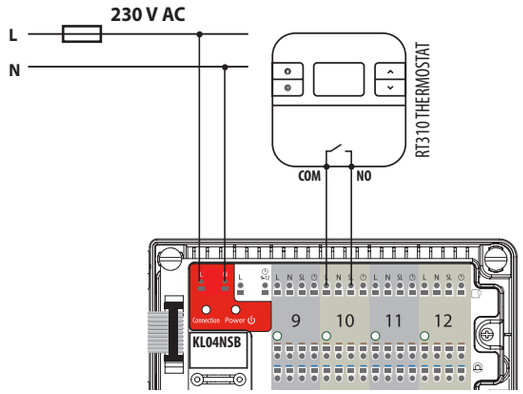
- Connecting EXPERT NSB, HTR or BTR series thermostats



- Connecting a 230 V thermostat (e.g. RT200)



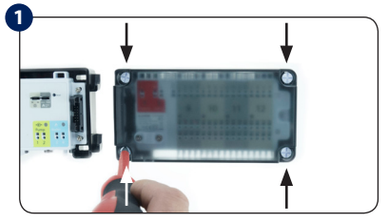
- Connecting ON/OFF battery-powered thermostat with voltage-free COM / NO output contacts (e.g. 091FL, RT310, RT510)



Note: In NSB, HTR, ERT, BTR product series follow interchangeable signifying:
↑ = SL
◷ = NSB

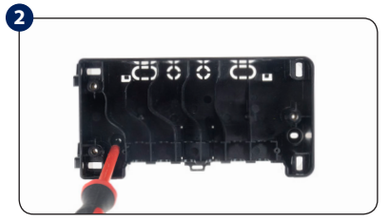
INSTALLATION

1



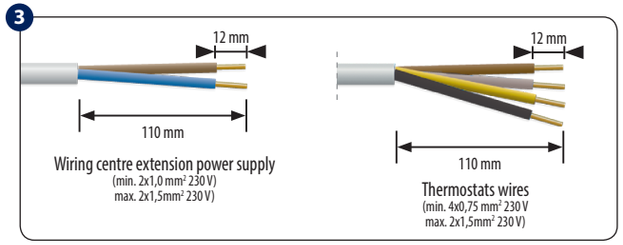
Remove the top cover of the wiring centre extension and unscrew the main housing.

2



Mount the back side of the housing to the wall. When mounting on a DIN rail, open the hooks on the back of the housing.

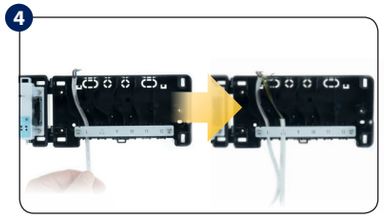
3



Remove the appropriate piece of insulation from the wires.

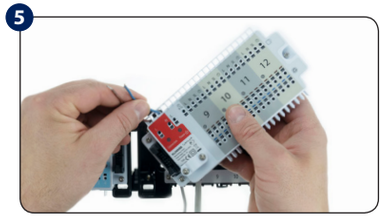
Set includes supplementary accessories (to support installation proces).

4



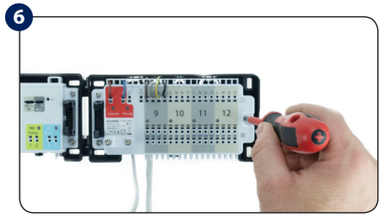
Thread the wires under the mounting belt in the back part of the wiring centre extension.

5



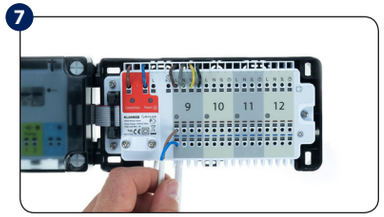
Thread the wires through the slots in the top part of the wiring centre extension and connect it to the terminals.

6



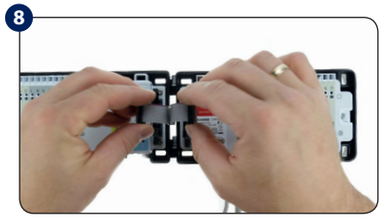
Adjust the wires and screw the main housing of the wiring centre extension to the rear housing.

7



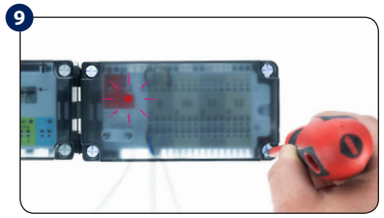
Connect the thermoelectric actuators wires.

8



Connect the serial cable to the KL08NSB and KL04NSB connector .

9



Make sure that all the wires are properly connected, mount top cover and power up the wiring centre and wiring centre extension - the red power indicator LED will illuminate.