Niloé™ STEP
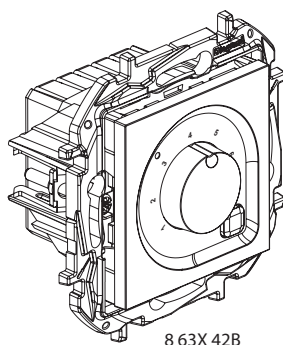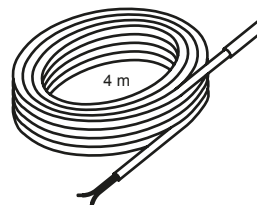**THERMOSTAT (FLOOR HEATING)**
German standard

Cat. No(s): 8 631 42B - 8 633 42B - 8 634 42B - 8 635 42B

8 63X 42B

4 m

1. USE

Control device for programming and regulating heating units for floor heating systems.
Delivered with sonde (4 m).
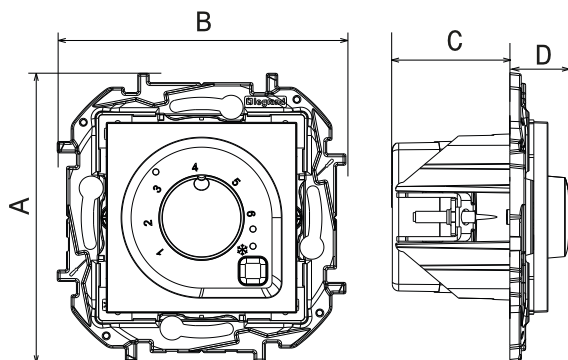With N/O free contact and LED.
Mechanisms to be equipped with finishes
Screw or claw fixing.

2. RANGE

Description	White	Aluminium	Medium Grey	Black
Foor heating thermostat	8 631 42B	8 633 42B	8 634 42B	8 635 42B

3. DIMENSIONS (mm)

A	B	C	D
75.8	75.8	31	15.5

4. CONNECTION

Number of terminals: 6
Type of terminals: with screws

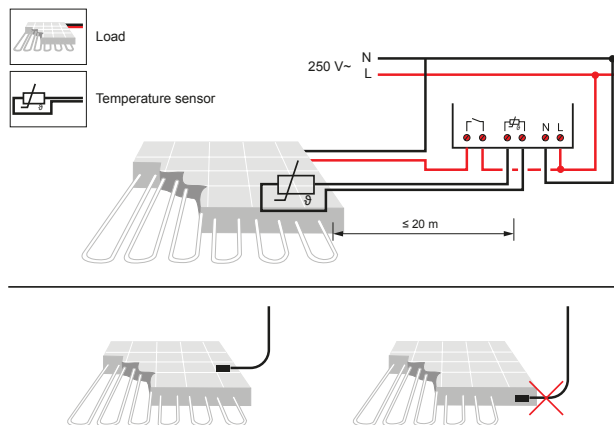Terminal capacity:
     2 x 1.5...4 mm² flexible or rigid cable

Stripping length:
     6 mm
Tool:
     flat screwdriver 3.5 mm or PZ1

5. WIRING

Load

Temperature sensor

250 V~   N
         L

≤ 20 m

6. FUNCTION

The thermostat (heating/cooling) is equipped with a temperature sensor and provides a changeover relay switched depending on the ambient temperature.

The regulation is ensured by an algorithm with a pulse-width controlled output (0...100% thus ensuring a minimal temperature variation relative to the ambient temperature
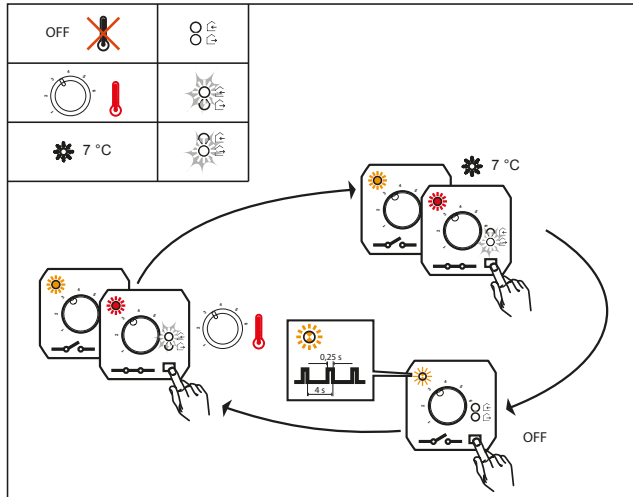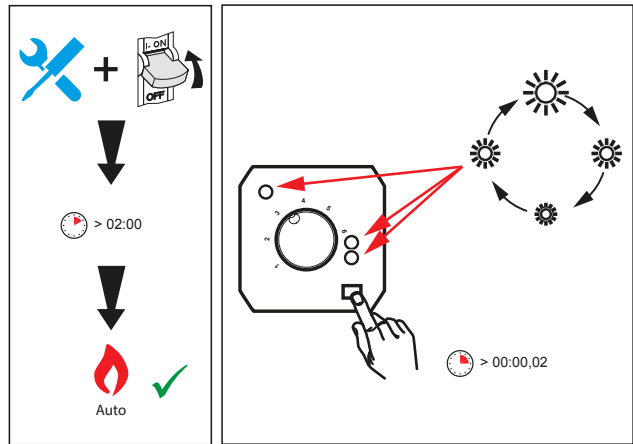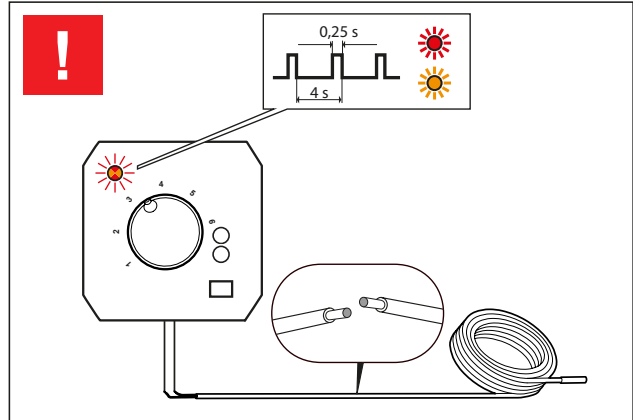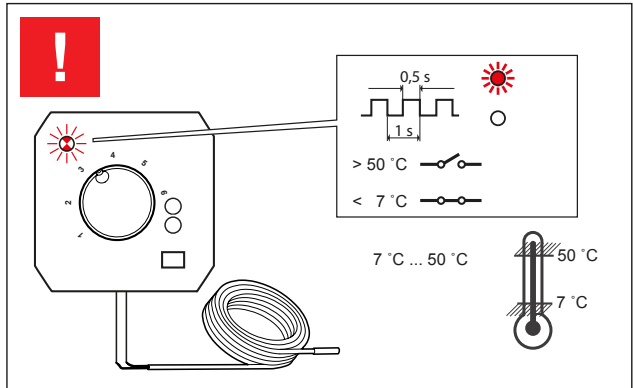
Setting range from room temperature: from 7°C to 40°C

Setting range of the floor temperature:
     - max: from 25°C to 50°C
     - min: from 7°C to 30°C

■ 6.1 Setting the room temperature (internal sensor)

The external probe is used to limit the temperature in the floor.
3 positions for adjusting the floor temperature:
• choice of a maximum temperature (+25℃, +50℃)
• choice of a minimum temperature (+7℃, +30℃)
• no temperature measurement (OFF)

Example: Ambient temperature set to 14℃ with a protective low temperature set to 10℃, the relay will be switched on as soon as one of the two temperatures will be lower than the respective directions.

7. TECHNICAL CHARACTERISTICS

■ 7.1 Mechanical characteristics
Protection against solid bodies and liquids: IP 40
Protection against impacts: IK 02

■ 7.2 Material characteristics
Mat appearance
Material: - Mechanism casing: PC
          - Support: PC grey RAL 7037 + metal
          - Claws: Steel
Halogen free
UV resistant

Self-extinguishing:
+ 850° C / 30 s for insulating parts holding live parts in place
+ 650° C / 30 s for other parts made of insulating materials.

■ 7.3 Electrical characteristics
Voltage: 250 V~
Current: 16 A
Frequency: 50/60 Hz

■ 7.4 Climatic characteristics
Storage and usage temperature: - 10° C to + 70° C
Cooling temperature: - 5℃ to + 40℃

8. CLEANING

Surface cleaning with a cloth.

Do not use: acetone, tar remover, trichloroethylene.

Maintenance with the following products:
Hexane, Methylated spirit, Soapy water, Diluted ammonia, pure bleach diluted to 10%, Window-cleaning products, pre-impregnated wipes.

Caution: A preliminary test should be carried out if other specific cleaning products are to be used

9. STANDARDS AND APPROVALS

The undersigned, LEGRAND, declares that the radio-electric equipment type (Cat. Nos 8 631 42B - 8 633 42B - 8 634 42B - 8 635 42B) complies with directive 2014/53/EU.The full text of the EU declaration of conformity is available on the following website: www.legrand.com/ecatalogue