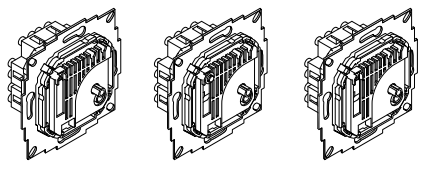


**Thermostat insert**

Operating instructions



**Thermostat insert with opening contact**

Art. no. ELG176202, ELG176212

**Thermostat insert with change-over contact**

Art. no. ELG176222

**Thermostat insert with switch**

Art. no. ELG176232

**Thermostat insert with ON/OFF switch**

Art. no. ELG176252

**Thermostat insert with switch for heating/cooling**

Art. no. ELG176262

**Necessary accessories**

- To be completed with:
- Central plate for thermostat insert for JOY design (without adapter frame) and designs FASHION, RIVA and SCALA (each with an adapter frame)
- Frame in corresponding design

**For your safety**

**⚡ DANGER HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

Safe electrical installation must be carried out only by skilled professionals. Skilled professionals must prove profound knowledge in the following areas:

- Connecting to installation networks
- Connecting several electrical devices
- Laying electric cables
- Safety standards, local wiring rules and regulations

Failure to follow these instructions will result in death or serious injury.

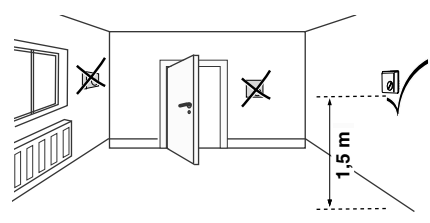
**⚠ CAUTION**  
The protective insulation conforms to IEC/EN 60730-1 when correctly installed on a level, non-conductive, inflammable surface.

**Introduction to the thermostat insert**

The freely mountable electromechanical thermostat insert (referred to as **insert** from here on) is used to control the temperature in dry and enclosed spaces, such as flats, schools, halls, workshops, etc., with normal ambient conditions.

**Selecting an installation site**

- Installation on interior walls opposite the heat source is preferable.
- Mounting height: approx. 1.5 m above the floor.
- External walls and draughts from windows and doors should be avoided.
- Ensure that the warm air in the room has free access to the insert. To this end, the insert should not be installed inside shelving units or behind curtains and similar coverings.



- External sources of heat have a negative effect on the accuracy of the control unit. Therefore, avoid direct sunlight, proximity to televisions, radio and heating appliances, lamps, fireplaces and heating pipes.
- A dimmer generates heat too!  
If the insert is installed with a dimmer in a shared switch frame, the two should be as far apart as possible. If they are arranged one on top of the other, the insert must be below the dimmer.

**Installing the insert**

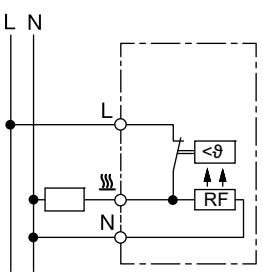
- 1 Wire the insert according to the corresponding circuit diagram.

- i** Observe the following:
- Ensure that neutral conductor N is connected to terminal N. If it isn't, this will result in significant temperature fluctuations because the insert is not able to work properly.
  - When using conductors with a cross-section of 2.5 mm<sup>2</sup>, we recommend using deep installation boxes to make installation easier.
  - A protective conductor does not have to be connected as the insert is insulated.
  - LED on:  
with ELG176232 = temperature reduction on  
with ELG176252 = heating on

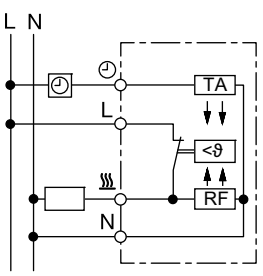
- i** To ensure that the thermostat insert functions properly, the support ring must always be fitted on a finished wall. It must not be wallpapered over, for example.

**Circuit diagram for insert with opening contact**

ELG176202

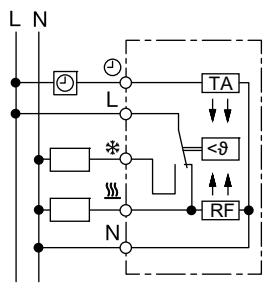


ELG176212



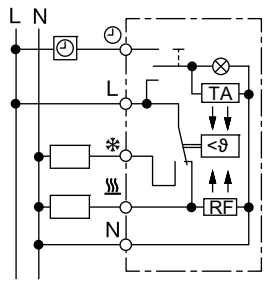
**Circuit diagram for insert with change-over contact**

ELG176222



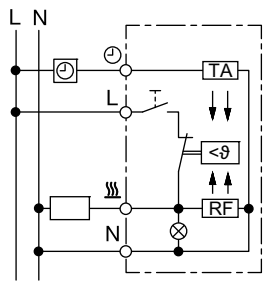
**Circuit diagram for insert with switch**

ELG176232



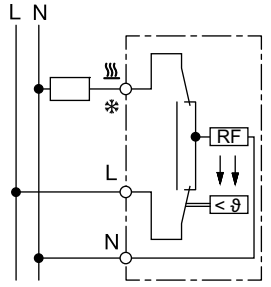
**Circuit diagram for insert with ON/OFF switch**

ELG176252



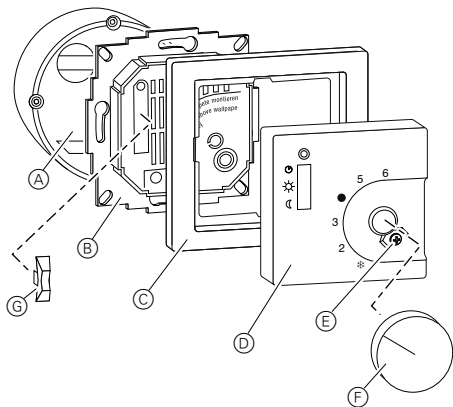
**Circuit diagram for insert with switch for heating/cooling**

ELG176262



Symbol	Explanation:
L	Outer conductor (phase)
N	Neutral conductor
⌚	Connection for timer signal for temperature reduction
⏏	Load connection for heating
❄	Load connection for cooling
RF	Resistor for thermal feedback
TA	Resistor for reducing the room temperature at night

- ② Install the insert.



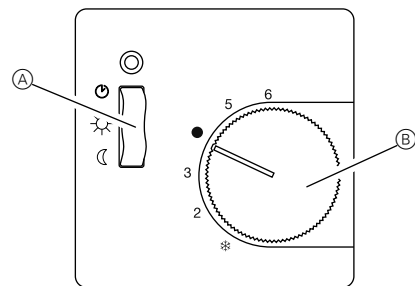
- ③ Place switch rocker **G** on the switch base (for specific versions only).  
 ④ Place frame **C** and central plate **D** on the insert and fasten using screw **E**.  
 ⑤ Push on setting knob **F**.

### Commissioning the insert

When commissioning the insert, be aware that the bimetallic element needs time to adjust to the room temperature. Therefore the switching point will deviate from the room temperature directly after installation or after night economy is switched off. The switching point becomes accurate after approx. 1 to 2 hours of operating time.

We therefore recommend an initial set temperature that is higher than actually required so that initial heating and initial temperature equalisation are faster. After the temperature has been reached, the temperature setting can be set to the setpoint value required.

### Operating the insert



- A Type ELG176232:**  
 Switch for switching between:  
 ☾ Automatic switching between day and night temperature via external signal TA  
 ☀ Permanently day temperature  
 ☾ Permanently night temperature

**Type ELG176252:**  
 ON/OFF switch

**Type ELG176262:**  
 Switch for switching between heating/cooling

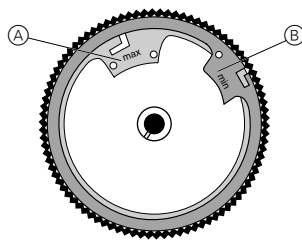
- B** Setting knob for temperature preselection

Use the setting knob to set the temperature required. The scale corresponds to a temperature range of approx. 5 to 30°C.

### Temperature setting scale with symbols/numbers

☀	= approx. 5°C	●	= approx. 20°C
2	= approx. 10°C	5	= approx. 25°C
3	= approx. 15°C	6	= approx. 30°C

### Limiting the temperature adjustment range



- A** Red ring (max.): highest temperature that can be set  
**B** Blue ring (min.): lowest temperature that can be set

The insert is factory-set to a maximum adjustment range of 5 to 30°C.

There are 2 adjusting rings in the setting knob. These can be used to limit the temperature adjustment range within the minimum and maximum values.

### Setting procedure

- Turn the setting knob to roughly the middle of the required adjustment range.
- Remove the setting knob.
- Insert the tip of a ballpoint pen into the hole and turn the ring to the required temperature limit.  
 The red adjusting ring needs to be turned anticlockwise.  
 The blue adjusting ring needs to be turned clockwise.
- Put the setting knob back on.

### Technical data

**Type:** ELG176202  
**Contact:** Break contact  
**Temperature range:** 5-30°C  
**Nominal voltage:** AC 230 V  
**Heating nominal current:** 10(4) A  
**Heating switching capacity:** 2.2 kW  
**Differential gap:** ~0.5 K

**Type:** ELG176212  
**Special features:** Temperature reduction  
**Contact:** Opening contact  
**Temperature range:** 5-30°C  
**Nominal voltage:** AC 230 V  
**Heating nominal current:** 10(4) A  
**Heating switching capacity:** 2.2 kW  
**Differential gap:** ~0.5 K  
**Temperature reduction:** ~4 K

**Type:** ELG176222  
**Special features:** Temperature reduction  
**Contact:** Change-over contact  
**Temperature range:** 5-30°C  
**Nominal voltage:** AC 230 V  
**Nominal current**  
   Heating: 10(4) A  
   Cooling: 5(2) A  
**Switching capacity**  
   Heating: 2.2 kW  
   Cooling: 1.1 kW  
**Differential gap:** ~0.5 K  
**Temperature reduction:** ~4 K

**Type:** ELG176232  
**Special features:** Switch Day / Night / Auto  
 Temperature reduction LED for temperature reduction  
 Change-over contact  
**Contact:**  
**Temperature range:** 5-30°C  
**Nominal voltage:** AC 230 V  
**Nominal current**  
   Heating: 10(4) A  
   Cooling: 5(2) A  
**Switching capacity**  
   Heating: 2.2 kW  
   Cooling: 1.1 kW  
**Differential gap:** ~0.5 K  
**Temperature reduction:** ~4 K

**Type:** ELG176252  
**Special features:** Switch mains  
 Lamp LED for heating  
 Temperature reduction  
**Contact:** Opening contact  
**Temperature range:** 5-30°C  
**Nominal voltage:** AC 230 V  
**Heating nominal current:** 10(4) A  
**Heating switching capacity:** 2.2 kW  
**Differential gap:** ~0.5 K  
**Temperature reduction:** ~4 K

**Type:** ELG176262  
**Special features:** Switch for heating/cooling  
**Contact:** Change-over contact  
**Temperature range:** 5-30°C  
**Nominal voltage:** AC 230 V  
**Nominal current**  
   Heating/cooling: 5(2) A  
**Switching capacity**  
   Heating/cooling: 1.1 kW  
**Differential gap:** ~0.5 K

**Type:** All  
**Ambient temperature:** 0-55°C  
**Degree of contamination:** 2  
**Rated surge voltage:** 4 kV  
**Voltage and current for EMC emitted interference test purposes:** 230 V, 0.1 A  
**Permitted relative room humidity:** max. 95%, non-condensing  
**Energy class:** I = 1%  
**Mode of operation:** 1 C  
**Protection class:** II (once the cover has been fitted)  
**Connecting terminals:** Plug-in terminals for 1 to 2.5 mm<sup>2</sup> solid conductors



Dispose of the device separately from household waste at an official collection point. Professional recycling protects people and the environment against potential negative effects.

### Schneider Electric Industries SAS

If you have technical questions, please contact the Customer Care Centre in your country.  
[schneider-electric.com/contact](http://schneider-electric.com/contact)