

## RTR-B

## Mechanical room thermostat



RTR-B747

RTR-Bxxx

### Summary

RTR-B is a series of one-stage mechanical room thermostats for wall mounting.

### Applications

- HVAC systems – temperature control, exhaust air control or control of cooling or heating in residential premises, offices etc.
- Indication of exceeding or dropping of temperature above or below the setpoint

### Function

The bimetal measuring element activates the switching contact when temperature exceeds the setpoint. The setpoint is set either inside of the housing or with a knob on the front of the device.

Thermostats are designed for use in standard environment. They do not require maintenance and can be installed in any position. Make sure that proper air circulation through the apertures is maintained. Fix the device with 2 or 4 screws on a 50 mm flush-mounted box or any flat surface. In the bottom there is an aperture for cable installation.

The RTR-B124 has a terminal for externally forced temperature drop by  $-5$  K which may be used for night depression. Connect the time scheduler to terminal 5 and apply 230 V AC during the depression time.

Note that the RTRB7... should not be used for both heating and cooling at the same period because of no dead zone between the heating and cooling mode.

### Technical data

Switched voltage	230 V AC, 50...60 Hz
Setpoint range	5 ... 30 °C
Switched current	heating 10 (4) A, min. 10 mA cooling 5 (2) A, min. 10 mA
Contact	opening or switching contact
Hysteresis	about 0.5 K
Cover	ABS, colour similar to RAL 9010

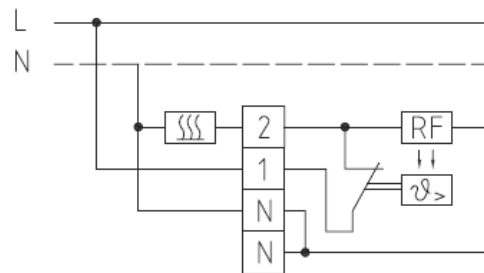
Dimensions	89 x 91 x 27 mm
Connection	screw terminals for wires 0,14 – 2,5 mm <sup>2</sup>
Protection class	Class II (according to EN 60730)
Protection degree	IP30 (according to EN 60529)

## Types

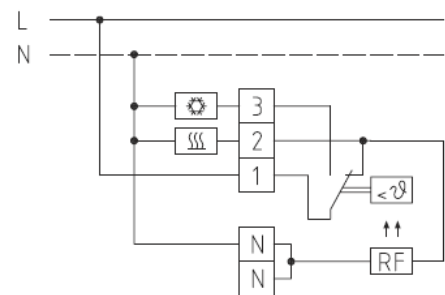
Type	Function	Contact	Setting
RTR-B121	heating	closed if below setpoint	external setpoint knob
RTR-B124	heating with depression –5K	closed if below setpoint	external setpoint knob
RTR-B721	heating / cooling	change-over	external setpoint knob
RTR-B747	heating / cooling	change-over	internal setpoint

## Terminals

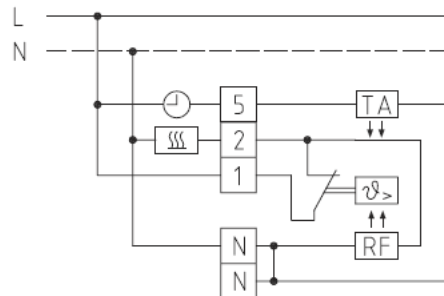
**RTR-B 121**



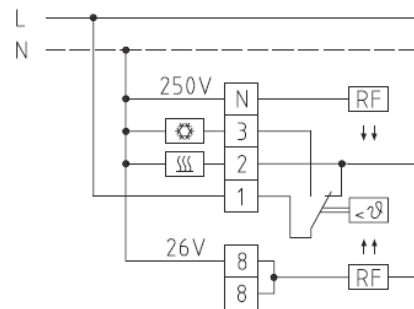
**RTR-B 721**



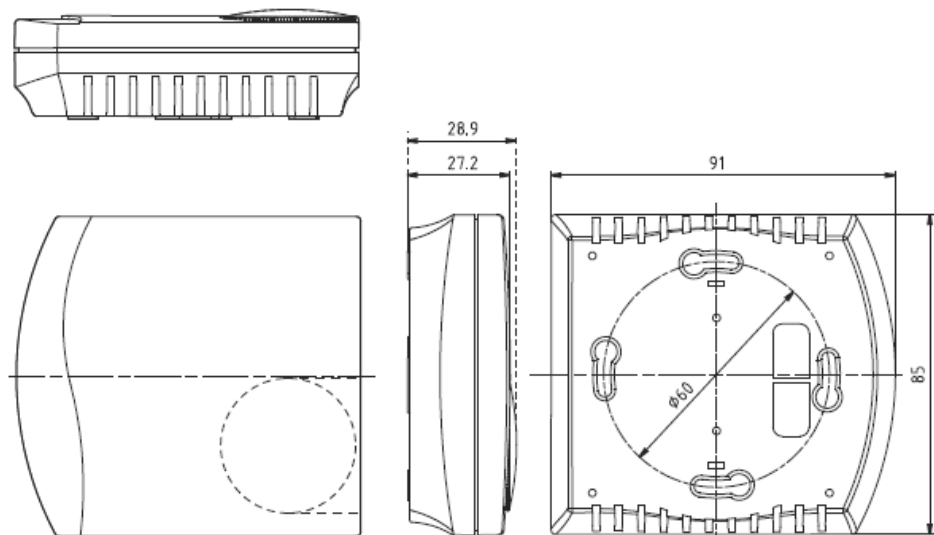
**RTR-B 124**



**RTR-B 747**



## Dimensions



8/2013 Subject to technical changes.