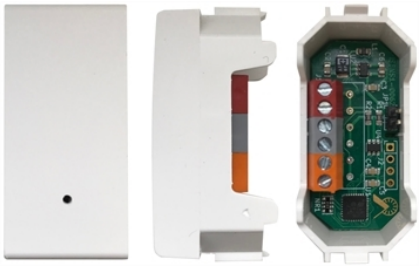
HERZ clever&smart Room Sensor Clima narrow It 3 F810 62

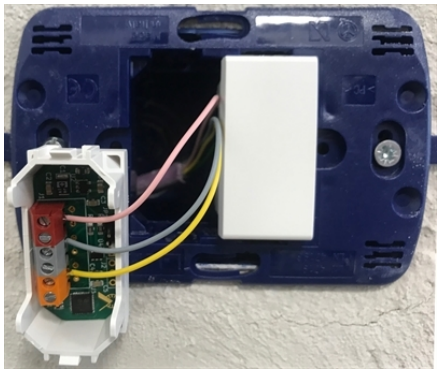
Digital room temperature and humidity sensor with communication via 1-Wire bus in connection with the HERZ clever&smart Control Box Clima.



Technical Data

Power Supply	5 VDC SELV or PELV	
Measurement Range	0 °C ... 60 °C	0 % ... 100 %
	Accuracy: +/- 1 °C	Accuracy +/- 6 °C
	Resolution: 0,1 °C	Resolution 0,1 %
Protection Class	IP 20	
Max. Cable Length	up to 100 m powered (three-wire connection recommended), using twisted pair cables	
Dimension	21 mm x 43 mm	
Housing Design	plastic housing pure white	
Installation Methods	flush-mounted switch box	

Wall Installation



Mount the HERZ clever&smart Room Sensor Clima narrow It in a suitable place.

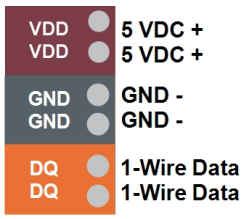
⚠ Caution!
Device and function may be damaged. Select a suitable environmental condition. Direct sunlight, sources of heat and cold, e.g. radiators and windows must be avoided.

Mounting in flush-mounted switch box
Use the supplied screws (3.0 x 16 mm) to fix the mounting frame to the switch box. Open the terminals with a screwdriver and make the electrical connection as described below.

1-Wire ID

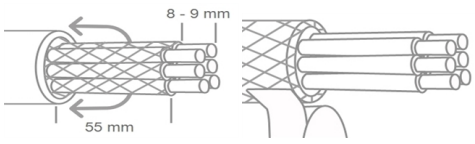
Each HERZ clever&smart Room Sensor Clima narrow It has a unique 16-digit 1-Wire ID. This ID is required for sensor-room assignment in HERZ clever&smart Room Controller . The ID can be found inside the sensor on the type plate and on the supplied sticker. We recommend placing the sticker in the table of the HERZ clever&smart Control Box instruction manual or in the HERZ clever&smart Control Box terminal plan sticker to simplify the later configuration of the system.

Electrical Connection



To connect a HERZ clever&smart Room Sensor Clima narrow It one of the terminal points VDD/ GND/ DQ is required in each case. The additional three clamping points are for easy connection of further sensors. Use a suitable twisted pair cable and ensure sufficient wire cross-section e.g. LIYCY 2 x 2 x 0.75mm²

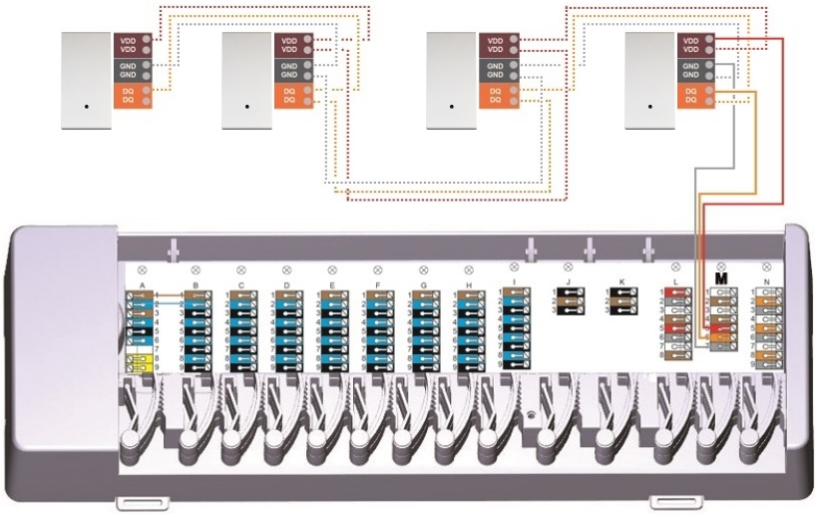
⚠ Only to be used with SELV or PELV protective extra-low voltage.



⚠ If shielded cables are used, contact between the shielding and the PCB can cause damage to the device and lead to malfunctions.

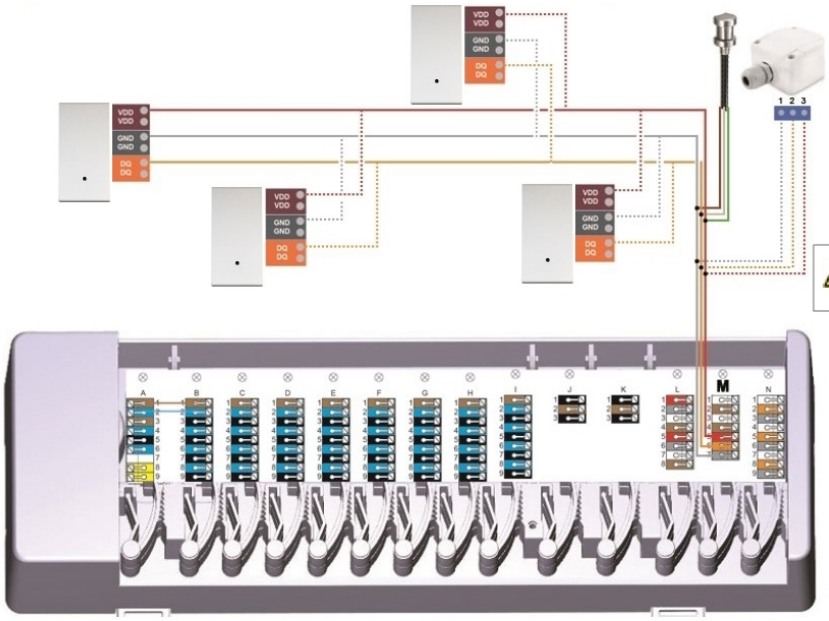
Connection examples

Example 1: Series connection. The installation leads from one sensor to the next.



The 1-Wire system must be realised with 3 wires (5 VDC, DQ, GND). The wiring must be done in series, see diagram opposite. Stub lines should be avoided or made as short as possible. The total cable length can be up to 100 m. A suitable twisted pair cable must be used and sufficient conductor cross-section must be ensured, e.g. LIYCY 2 x 2 x 0.75 mm², in order to avoid impermissible voltage drop at the HERZ clever&smart room sensors.

Example 2: Tree structure. Several stub lines lead from one main line to the individual sensors.



⚠ **Keep stub lines as short as possible!**