INDUSTRIAL DIFFERENTIAL THERMOSTATS

DB-IDD

FUNCTION

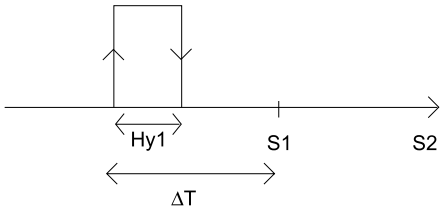
Temperature control in solar heating systems, for the regulation of circulation pumps, heating pumps and all the systems depending on a differential temperature. The controller has:

- 1 relay output;
- 2 inputs for NTC 10K sensors, supplied with the controller;
- adjustable differential temperature setpoint corresponding to ΔT of 2 sensors for the relay activation.

TYPE	WORKING RANGE °C	SETPOINT (ΔT) °C	DIFF. IN THE STAGE K	MAX TEMP. SENSOR °C
DB-IDD	-10...+85	1...+20	+0.5...+6	-40...+110

TECHNICAL DATA

Power supply: 230 Vac ± 10%, 50-60 Hz
Input: 2 NTC 10K sensors (NT0420-NTC10-02)
Output: 1 SPDT relay 10 A 230 Vac
Setpoint: 1...+20 °C
Power cons.: < 1.5 W
Precision: ± 1 °C
Working: -20...+50 °C
10...90% r.h. (without condensing)
Storage: -20...+70 °C
< 95% r.h.
Housing: ABS fireproof according to UL94 V-0
Size: 132 x 85 x 88 mm
Protection: IP65, class II
Weight: 580 g



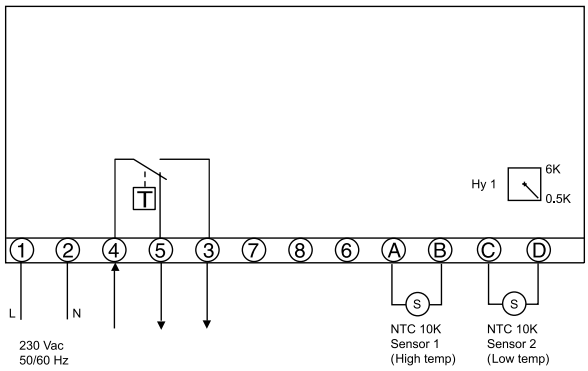
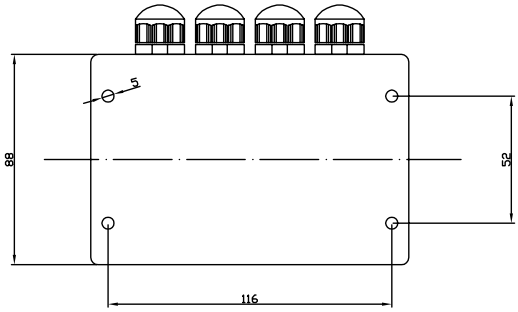
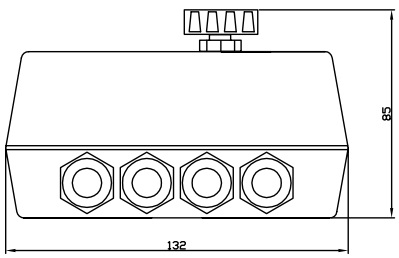
S1 temperature measured by sensor 1
S2 temperature measured by sensor 2
Hy1 differential in the stage
ΔT setpoint (knob)

Logic of relay output:

S2 < S1 - ΔT relay on
S2 > S1 - ΔT + Hy1 relay off

WIRING DIAGRAM

Terminal connections for heating systems with differential temperature control.



DIMENSIONS (mm)