# THERMOSTAT SWITCH (NC)

## KTO 111 | 11100.0-01




The mechanical NC thermostat opens when the temperature rises and is used to control heaters or to switch signal transmitters when the temperature undershoots. The use of push-in terminals prevents the supply lines from coming loose.

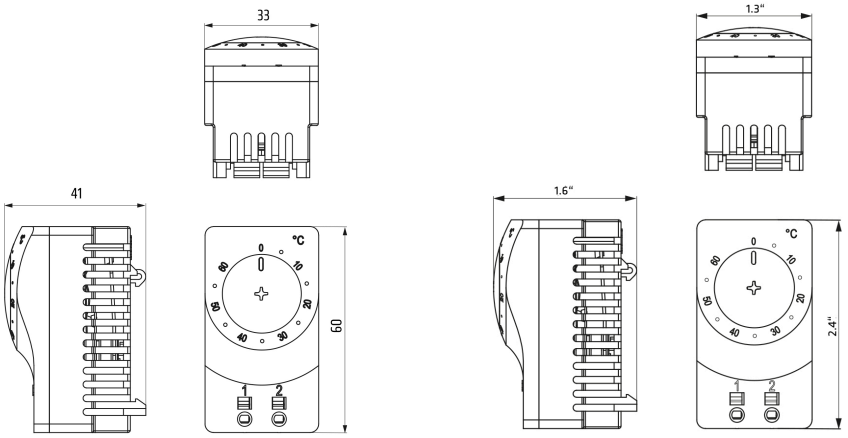
- Fixed supply lines thanks to push-in terminals
- Time saving thanks to tool-free connection
- Large adjustment wheel enables convenient adjustablity
- Optimised air inlets
- Can be used at altitudes of up to 5000 metres

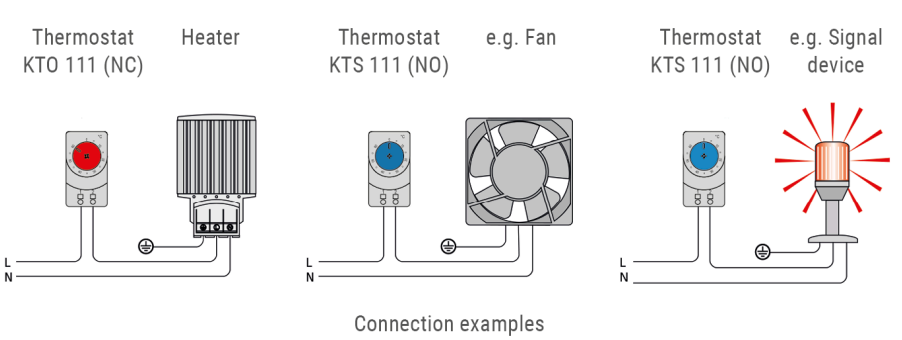
## OVERVIEW TECHNICAL DATA

| | |
|---|---|
| Device type | Thermostats |
| Setting range | -10 °C - 50 °C |
| Contact type | Snap-action contact |
| Sensor | Thermostatic bimetal |
| Protection type | IP20 |
| Casing | Plastic to UL94 V-0, light grey |
| AC/DC | AC;DC |
| Inrush current | 16 A |
| Inrush current duration | 10 s |
| Switching capacity | AC 250 V: 10 (2) A;<br>AC 120 V: 15 (2) A;<br>DC 24-72 V: 30 W |
| Switching current ohmic | 10 A |
| Reference voltage ohmic | 250 VAC |
| Reference voltage 2 ohmic | 120 VAC |
| Switching current inductive | 2 A |
| Reference voltage inductive maximum | 250 VAC |
| Reference voltage 2 | 120 VAC |
| Switching current dc ohmic | 1 A |
| Reference voltage dc ohmic | 30 VDC |
| Minimal switching capacity | 0,48 W |
| Reference voltage | 24 V |
| Switching current | 20 mA |
| Service life | >100000 cycles |
| Switching differential | 7 K |

| | |
|---|---|
| Switching differential tolerance | ± 4 K |
| Operating temperature | -45 °C - 80 °C |
| Operating humidity | ≤90 % RH |
| Storage humidity | ≤90 % RH |
| Storage temperature | -45 °C - 80 °C |
| Connection | 2 push-in terminals<br>Rigid wire cable 2.5 mm² (AWG 14)<br>Stranded wire 1.5 mm² (AWG 16) |
| Design | Normally closed (NC) |
| Mounting | Clip for 35 mm DIN rail, EN 60715 |
| Height | 60 mm |
| Width | 33 mm |
| Depth | 41 mm |
| Weight | 40 g |
| Note | Overvoltage category: II: up to 5000 m; III: up to 2000 m.;The controller's contact system is exposed to the effects of the environment, which can change the contact resistance. This can lead to a voltage drop and/or self-heating of the contacts. Stripped length of rigid wire cable: 8 to 12 mm. Wire end ferrules (square or trapezoidal crimped) must be used for connections with stranded wires. Length of wire end ferrule: 8 mm or 12 mm. The height of the current has an influence on the tolerance accuracy, values specified: Switching resistive load (switching inductive load). |
| CCC | CQC |

## TECHNICAL DRAWINGS




Connection examples

