

# THERMOSTAT SWITCH (NO)

## KTS 111



The mechanical NO thermostat closes when the temperature rises and is used to control filter fans, heat exchangers, cooling devices or to switch signal transmitters when the temperature is exceeded. The use of push-in terminals prevents the supply lines from coming loose.

- Tight-fitting supply lines thanks to push-in terminals
- Time saving due to tool-free connection
- Large adjustment wheel enables convenient adjustability
- Optimized air inlet
- Can be used at altitudes of up to 5000 meters



### OVERVIEW TECHNICAL DATA

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Contact type                        | Snap-action contact             |
| Sensor                              | Thermostatic bimetal            |
| Protection type                     | IP20                            |
| Casing                              | Plastic to UL94 V-0, light gray |
| AC/DC                               | AC;DC                           |
| Inrush current                      | 16 A                            |
| Inrush current duration             | 10 s                            |
| 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                        |

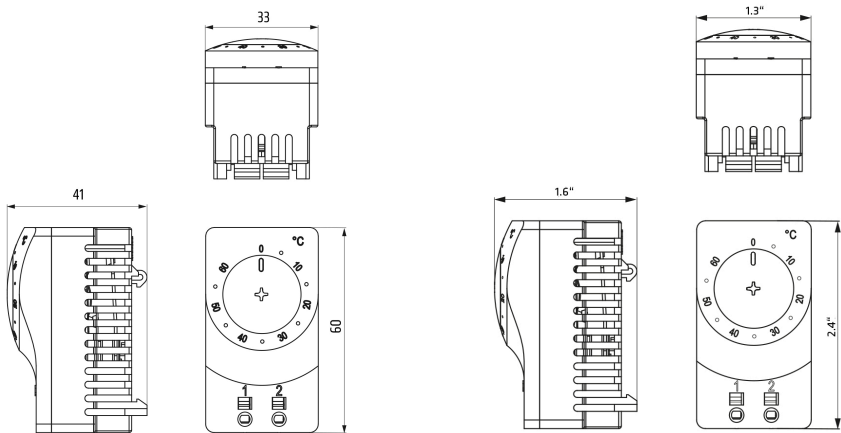


|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 open (NO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

PRODUCT VARIANTS

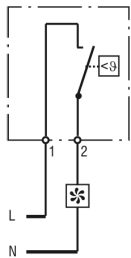
| Article number | Setting range  | Switching capacity                                       | Switching current ohmic |
|----------------|----------------|----------------------------------------------------------|-------------------------|
| 11101.0-00     | 0 °C - 60 °C   | AC 250 V: 10 (2) A; AC 120 V: 15 (2) A; DC 24-72 V: 30 W | 10 A                    |
| 11101.0-02     | 20 °C - 80 °C  | AC 250 V: 3 (2) A; AC 120 V: 3 (2) A; DC 24-72 V: 30 W   | 3 A                     |
| 11101.0-01     | -10 °C - 50 °C | AC 250 V: 10 (2) A; AC 120 V: 15 (2) A; DC 24-72 V: 30 W | 10 A                    |
| 11101.9-00     | 32 °F - 140 °F | AC 250 V: 10 (2) A; AC 120 V: 15 (2) A; DC 24-72 V: 30 W | 10 A                    |
| 11101.9-01     | 14 °F - 122 °F | AC 250 V: 10 (2) A; AC 120 V: 15 (2) A; DC 24-72 V: 30 W | 10 A                    |

TECHNICAL DRAWINGS



Thermostat  
KTS 111 (NO)

Connection diagram



- Heater
- Filter fan, cooling equipment, signal device

Thermostat  
KTO 111 (NC)

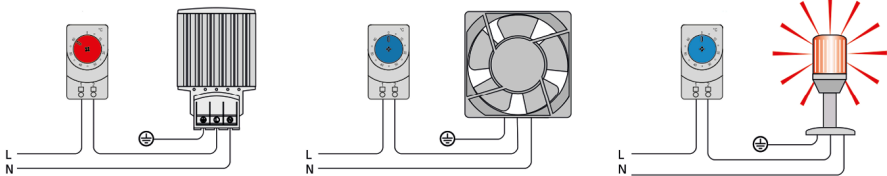
Heater

Thermostat  
KTS 111 (NO)

e.g. Fan

Thermostat  
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e.g. Signal  
device



Connection examples