

# SMALL THERMOSTAT

## KTO 111 / KTS 111



- > Safe wiring with Push-In terminals
- > Faster and tool-free wiring
- > Improved air intakes for ventilation

- > Easy adjustability of switch temperature setting
- > for use in up to 5,000 m altitude

The mechanical thermostats KTO 111 and KTS 111 are two state regulators for use up to 5,000 meters in altitude, thanks to optimized air gap and increased creepage distance. By use of Push-In terminals the thermostat is wired tool-free. The Push-In terminals provide constant pressure on the wires to prevent them from coming loose (e.g. during transport).

**Thermostat (NC):** Thermostat opens on temperature rise – for regulating heaters or for switching signal devices. Comes with red temperature dial.

**Thermostat (NO):** Thermostat closes on temperature rise – for regulating filter fans and heat exchangers or for switching signal devices. Comes with blue temperature dial.

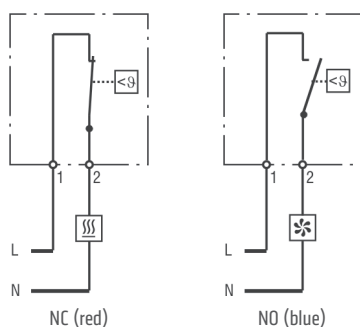
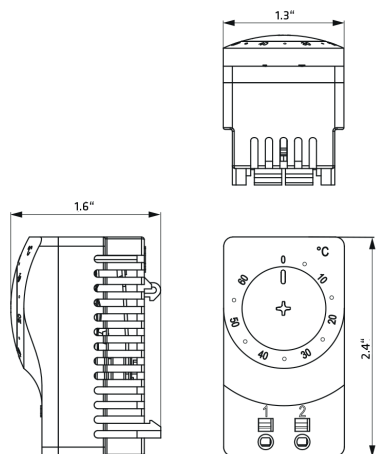
### TECHNICAL DATA



Switching difference	12.6 °F ± 7 °F tolerance (7 K ± 4 K)
Sensor element	thermostatic bimetal
Contact type	snap-action contact
Service life	100,000 cycles verified
Max. operating voltage, frequency range	AC 250 V, 50-60 Hz
Max. inrush current	AC 16 A for 10 sec.
Connection <sup>1</sup>	2 Push-In clamps solid/stranded wire - AWG 14 max. (2.5 mm <sup>2</sup> )
Housing	plastic, UL 94V-0, light grey
Mounting	clip for 35 mm DIN rail, EN 60715
Mounting position	variable
Dimensions	2.4 x 1.3 x 1.6" (60 x 33 x 41 mm)
Weight	approx. 1.4 oz. (40 g)
Operating / Storage temperature	-49 to +176 °F (-45 to +80 °C)
Operating / Storage humidity	max. 90 % RH (non-condensing)
Protection type/Protection class	IP20 / II
Overvoltage category/Altitude	II: up to 5,000 m; III: up to 2,000 m

<sup>1</sup> Stripped length of solid wire: 0.4 to 0.5" (10-12 mm). When connecting with wires, wire end ferrules must be used (square or trapezoid crimp). Length of wire end ferrule: 0.4" or 0.5" (10 or 12 mm).

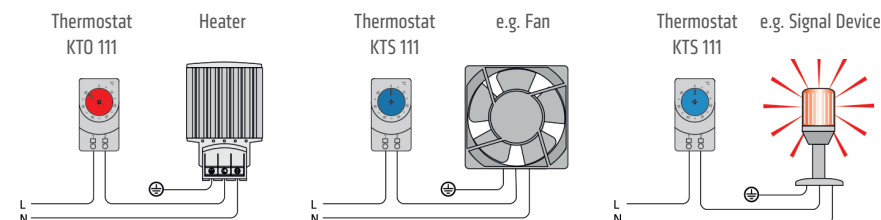
**Important note:** The contact system of the regulator is subjected to environmental influences, thus the contact resistance may change. This can lead to a voltage drop and / or self-heating of the contacts.



Enclosure heater

Filter fan, cooling equipment, signal device

Wiring examples



Setting range	Part No. (NC)	Part No. (NO)	Switching current <sup>2</sup> /capacity max.			Approvals		
			AC 250 V	AC 120 V	DC 24-72 V			
+32 to +140 °F	11100.9-00	11101.9-00	10 (2) A	15 (2) A	30 W	VDE	UL File No. E164102	EAC
+14 to +122 °F	11100.9-01	11101.9-01	10 (2) A	15 (2) A	30 W	VDE	UL File No. E164102	EAC
0 to +60 °C	11100.0-00	11101.0-00	10 (2) A	15 (2) A	30 W	VDE	UL File No. E164102	EAC
-10 to +50 °C	11100.0-01	11101.0-01	10 (2) A	15 (2) A	30 W	VDE	UL File No. E164102	EAC
+20 to +80 °C	11100.0-02	11101.0-02	3 (2) A	3 (2) A	30 W	VDE	UL File No. E164102	EAC

<sup>2</sup> The level of switching current has an influence on the tolerance accuracy;