THERMOSTAT SWITCH (NO)

STS 011 | 01116.9-00



The mechanical thermostat NO (normally open) 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 bimetal thermostat has a small hysteresis.

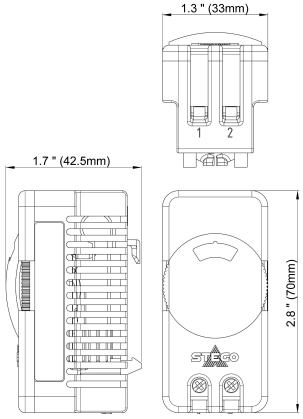
- Thumbwheel setting dial
- Small hysteresis enables precise control
- Optimised air inlets
- High switching capacity

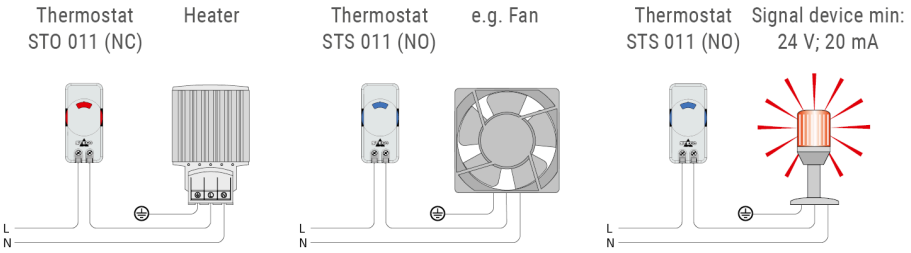
OVERVIEW TECHNICAL DATA

Device type	Thermostats
Setting range	32 °F - 140 °F
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; AC 120 V: 15 (2) A; DC 24-72 V: 30 W
Switching current ohmic	10 A
Switching current 2 ohmic	15 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	4 K
Switching differential tolerance	± 3 K
Operating temperature	-45 °C - 80 °C
Operating humidity	≤90 % RH
Storage humidity	≤90 % RH
Storage temperature	-45 °C - 80 °C
Torque	0,5 Nm max.
Connection	2-pole clamp: Rigid wire cable 2.5 mm² (AWG 14) Stranded wire 1.5 mm² (AWG 16)
Design	Normally open (NO)
Mounting	Clip for 35 mm DIN rail, EN 60715
Height	70 mm
Width	33 mm
Depth	42 mm
Weight	50 g
Note	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. Switching resistive loads (switching inductive loads). Wire end ferrules must be used for connections with stranded wires.

TECHNICAL DRAWINGS

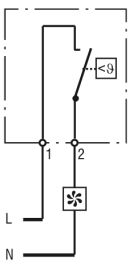




Connection examples

Thermostat
STS 111 (NO)

Connection diagram



Heater

Filter fan, cooling equipment, signal device