

# Heater and Thermostat



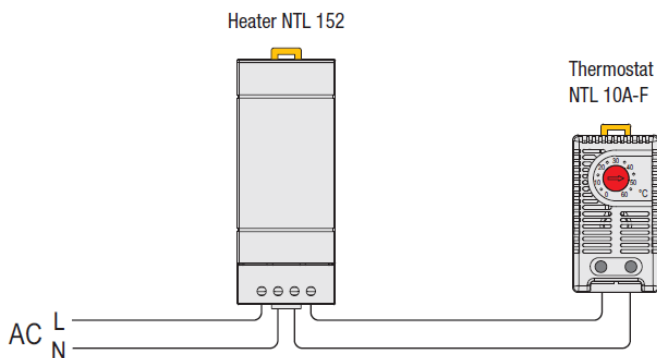
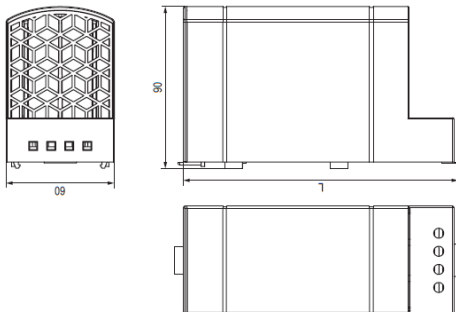
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NEPEAN ELECTRONICS

NEPEAN Power is a proven leader in the supply and manufacture of quality engineered solutions, products and technologies. Established in 1994, through the commitment of our dedicated team we have become a supplier of choice.

DIN Mounted Heater for the use in enclosures with electrical/electronic components. The design of the heater supports the natural convection which results in a high air-current of warm air. The surface temperatures on the accessible side surfaces of the housing are kept down as a result of the heater design.

## Features

- Low surface temperature
- Quick mounting due to clip fixing
- Double Insulated (plastic)
- Wide voltage range
- Small size



<b>Description</b>	120 - 240V AC/DC DIN Mounted Heater
<b>Operating Voltage</b>	120-240V AC/DC <sup>1</sup> (min. 110V, max. 265V)
<b>Heating Element</b>	PTC resistor - temperature limiting
<b>Surface Temperature</b>	< +80°C (+176°F), except upper protective grill
<b>Connection</b>	4-pole terminal, 2.5mm <sup>2</sup> , torque 0.8Nm max.
<b>Casing</b>	Plastic according to UL94 V-0, black
<b>Mounting</b>	Clip for 35mm DIN rail, EN 60715
<b>Fitting Position</b>	Vertical airflow (air outlet up, connection on bottom)
<b>Operating/Storage Temperature</b>	-45 to +70°C (-49 to + 158°F)
<b>Operating/Storage Humidity</b>	Max. 90% RH (non-condensing)
<b>Protection Type/Protection Class</b>	IP20/ II (double insulated)
<b>Note</b>	Other voltages on request

## Technical Specifications

Part Number	Heating Capacity <sup>2</sup>	Air Outlet Temperature <sup>3</sup>	Dimensions	Weight (approx)
NTL-152-150W	150W	+145°C (+293°F)	150 x 60 x 90mm	0.4kg

<sup>2</sup>ambient temperature <sup>3</sup>measured 50mm above protective grill

# Thermostat



Two thermostats in one casing. Thermostat (contact breaker, normally closed) for regulating heaters. The contact opens when temperature is rising. Thermostat (contact maker, normally open) for regulating filter fans and heat exchangers or switching signal devices when temperature limit has been exceeded. The contact closes when temperature is rising. heaters and cooling equipment can be switched independently from each other with a temperature offset as opposed to the usual change-over contacts.

## Features

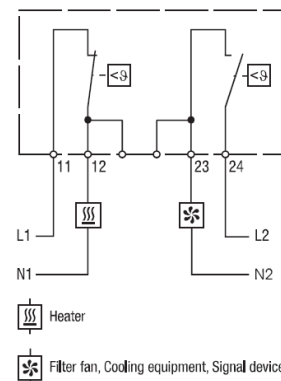
- NO and NC in one casing
- Separate adjustable temperatures
- High switching capacity
- Terminals easily accessible
- Clip fixing

## Technical Specifications

Part Number	Setting Range	Setting Range
NT 71-F	Contact breaker (NC)	Contact maker (NO)
	0 to +60°C	0 to +60°C

## Connection diagrams

Thermostat NT 71 (NC/NO)



Description	Thermostat
Switch Temperature Difference	+/-5°C
Sensor Element	Thermostatic bimetal
Contact Type	Snap-action contact
Service Life	>100,000 cycles
Maximum Switching Capacity	250VAC, 10A, 20A short time
Maximum Inrush Current	AC 16A for 10 sec
Connection	4-pole terminal, clamping torque 0.5Nm max. : rigid wire 2.5mm <sup>2</sup> (AWG 14) stranded wire <sup>1</sup> 1.5mm <sup>2</sup> (AWG 16)
Mounting	Clip for 35mm DIN rail, EN 60715
Casing	Plastic according to UL94 V-), light grey
Dimensions	67 x 50 x 46mm
Weight	approx. 90g
Fitting Position	Variable
Operating/Storage Temperature	-45 to +80°C (-49 to + 176°F)
Operating/Storage Humidity	Max. 90% RH (non-condensing)
Protection Type	IP20

