

NT 47-F / NT 48-F NT 47-M / NT 48-M

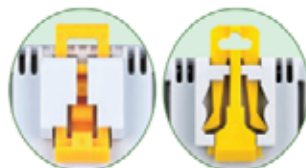


- Large setting range
- With Fast Fixing Part on the backside, easy to fix onto DIN Rail and easy to remove from DIN Rail
- Small size
- High switching performance

NT 47-F / NT 47-M: Thermostat (normally closed); contact breaker for regulating heaters. The contact opens when temperature is rising.

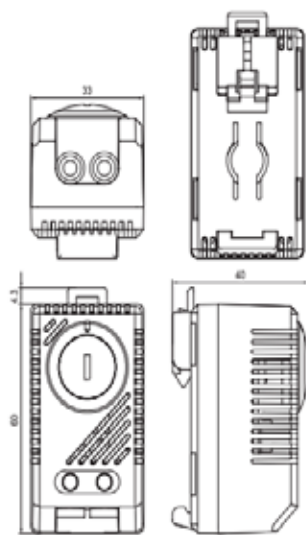
NT 48-F / NT 48-M: Thermostat (normally open); contact maker for regulating of filter fans and heat exchangers or for switching signal devices when temperature limit has been exceeded. The contact closes when temperature is rising.

Fast Fixing Part

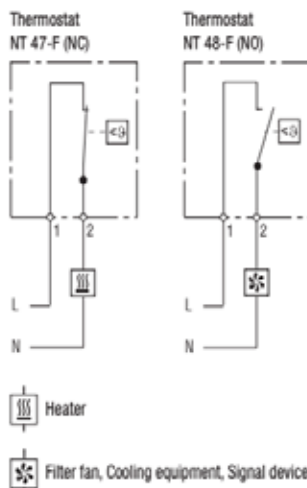


F Type

M Type



Connection Diagrams



Technical Data

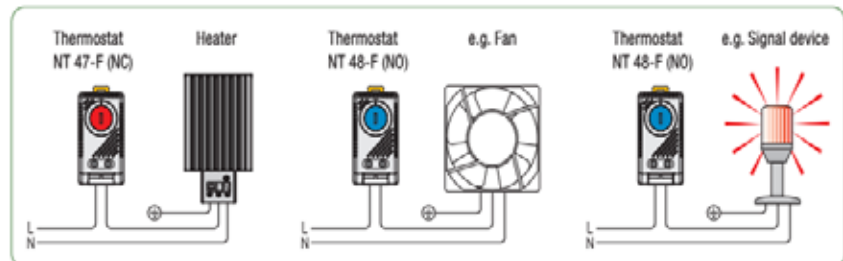
CE RoHS ISO9001 Patent

NT 47-F / NT 48-F / NT 47-M / NT 48-M

| | |
|-------------------------------|--|
| Operating voltage | all AC/DC voltage |
| Switch temperature difference | +/-5°C |
| Sensor element | thermostatic bimetal |
| Contact type | snap-action contact |
| Service life | >100,000 cycles |
| Max. switching capacity | 250VAC, 10 (2) A / 120VAC, 15 (2) A DC 30W at 24VDC to 72VDC |
| Max. inrush current | AC 16A for 10 sec. |
| Connection | 2-pole terminal, clamping torque 0.5Nm max.: rigid wire 2.5mm ² (AWG 14) stranded wire ¹ 1.5mm ² (AWG 16) |
| Mounting | clip for 35mm DIN rail, EN 60715 |
| Casing | plastic according to UL94 V-0, light grey |
| Dimensions | 64.3×33×40mm |
| Weight | approx. 40g |
| 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 |

¹ When connecting with wires, wire end ferrules must be used.

Examples of Connection



| Fast fixing type (F Type) | | Manual up down type (M Type) | | Setting range |
|---------------------------|-------------------|------------------------------|-------------------|---------------|
| NT 47-F (NC Type) | NT 48-F (NO Type) | NT 47-M (NC Type) | NT 48-M (NO Type) | |
| 47NCF01 | 48NOF01 | 47NCM01 | 48NOM01 | 0 to +60°C |
| 47NCF02 | 48NOF02 | 47NCM02 | 48NOM02 | -10 to +50°C |
| 47NCF03 | 48NOF03 | 47NCM03 | 48NOM03 | +20 to +80°C |
| 47NCF04 | 48NOF04 | 47NCM04 | 48NOM04 | +32 to +140°F |
| 47NCF05 | 48NOF05 | 47NCM05 | 48NOM05 | +14 to +122°F |

NTL 41-F / NTL 42-F

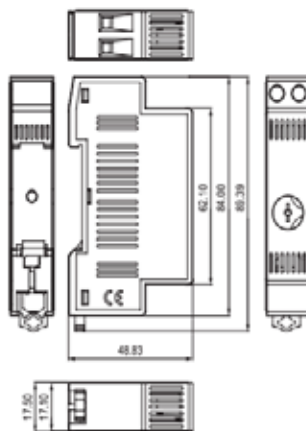


- Large setting range
- Small size
- Simple to mount
- High switching performance

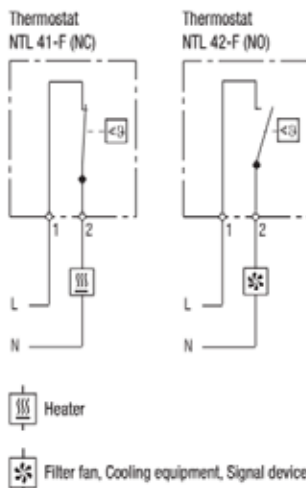
NTL 41-F: Thermostat (normally closed); contact breaker for regulating heaters. The contact opens when temperature is rising.

NTL 42-F: Thermostat (normally open); contact maker for regulating of filter fans and heat exchangers or for switching signal devices when temperature limit has been exceeded. The contact closes when temperature is rising.

Fast Fixing Part



Connection Diagrams



Heater

Filter fan, Cooling equipment, Signal device

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Technical Data

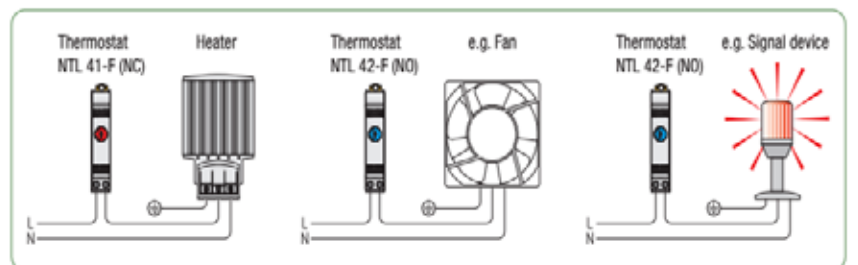
NTL 41-F / NTL 42-F

| | |
|-------------------------------|---|
| Operating voltage | all AC/DC voltage |
| Switch temperature difference | +/-5°C |
| Sensor element | thermostatic bimetal |
| Contact type | snap-action contact |
| Service life | > 100,000 cycles |
| Max. switching capacity | 250VAC, 10 (2) A / 120VAC, 15 (2) A DC 30W at 24VDC to 72VDC |
| Max. inrush current | AC 16A for 10 sec. |
| Connection | 2-pole terminal, clamping torque 0.5Nm max.: rigid wire 2.5mm ² (AWG 14) stranded wire ¹ 1.5mm ² (AWG 16) |
| Mounting | clip for 35mm DIN rail, EN 60715 |
| Casing | plastic according to UL94 V-0, light grey |
| Dimensions | 83x48x17mm |
| Weight | approx. 40g |
| 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 |

¹ When connecting with wires, wire end ferrules must be used.

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.

Examples of Connection



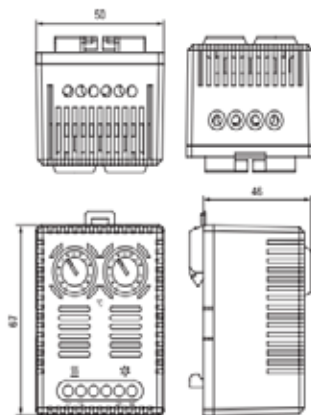
| Art. No. Contact breaker (NC) | Art. No. Contact maker (NO) | Setting range |
|-------------------------------|-----------------------------|---------------|
| 41NCF01 | 42NOF01 | -10 to +80°C |
| 41NCF02 | 42NOF02 | +14 to +176°F |
| 41NCF03 | 42NOF03 | 0 to +60°C |
| 41NCF04 | 42NOF04 | +32 to +140°F |

NT 71-F



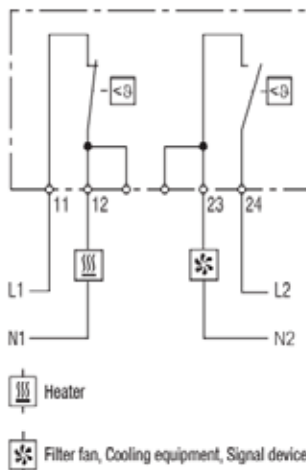
Patent Number: ZL 2018 3 0402401.9

Fast Fixing Part



Connection Diagrams

Thermostat NT 71-F (NC/NO)



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

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.

Technical Data

CE RoHS ISO9001 Patent

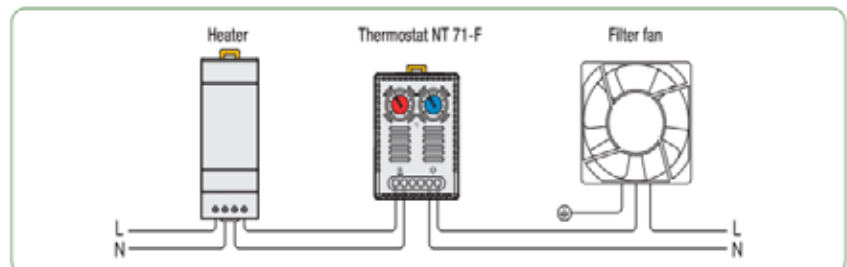
NT 71-F

| | |
|-------------------------------|--|
| Operating voltage | all AC/DC voltage |
| Switch temperature difference | +/-5°C |
| Sensor element | thermostatic bimetal |
| Contact type | snap-action contact |
| Service life | >100,000 cycles |
| Max. switching capacity | 250VAC, 10 (2) A |
| Max. inrush current | AC 16A for 10 sec. |
| Connection | 4-pole terminal, clamping torque 0.5Nm max.: rigid wire 2.5mm ² (AWG 14) stranded wire ¹ 1.5mm ² (AWG 16) |
| Mounting | clip for 35mm DIN rail, EN 60715 |
| Casing | plastic according to UL94 V-0, light grey |
| Dimensions | 67x50x46mm |
| 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 |

¹ When connecting with wires, wire end ferrules must be used.

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.

Examples of Connection



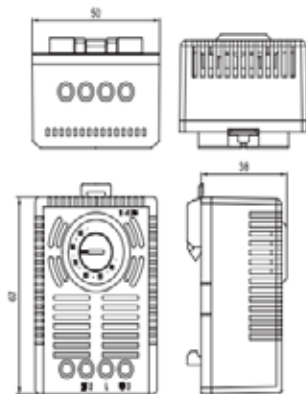
| Art. No. | Setting range | Setting range |
|-----------|-----------------------------------|----------------------------------|
| 71NCNOF01 | Contact breaker (NC) 0 to +60°C | Contact maker (NO) 0 to +60°C |
| 71NCNOF02 | Contact breaker (NC) +32 to 140°F | Contact maker (NO) +32 to 140°F |
| 71NCNOF03 | Contact breaker (NC) -10 to +50°C | Contact maker (NO) +20 to +80°C |
| 71NCNOF04 | Contact breaker (NC) +14 to 122°F | Contact maker (NO) +68 to +176°F |
| 71NONOF05 | Contact maker (NO) 0 to +60°C | Contact maker (NO) 0 to +60°C |
| 71NONOF06 | Contact maker (NO) +32 to 140°F | Contact maker (NO) +32 to 140°F |

NT 82-F



Patent Number: ZL 2018 3 0400071.X

Fast Fixing Part



- Adjustable relative humidity
- Change-over contact
- High switching capacity
- Easily accessible terminals
- Clip fixing

The electromechanical hygrostat is designed to control enclosure heaters so that the dew point is raised when a critical relative humidity of 65% is exceeded. In this way condensation and corrosion in enclosures with electric/electronic components is effectively prevented.

CE RoHS ISO9001 Patent

Technical Data

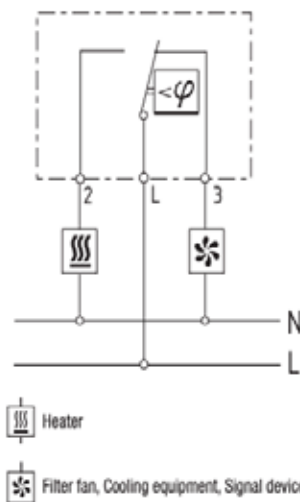
NT 82-F

| | |
|--------------------------------|---|
| Operating voltage | all AC/DC voltage |
| Switch difference ¹ | +/-5% RH |
| Permissible air velocity | 15m/sec. |
| Contact type | change-over contact |
| Service life | >50,000 cycles |
| Min. switching capacity | 20VAC / DC 100mA |
| Max. switching capacity | 250VAC, 5A / DC 20W |
| Connection | 3-pole terminal for 2.5mm ² , clamping torque 0.5Nm max.: rigid wire 2.5mm ² (AWG 14); stranded wire ² 1.5mm ² (AWG 16) |
| Mounting | clip for 35mm DIN rail, EN 60715 |
| Casing | plastic according to UL94 V-0, light grey |
| Dimensions | 67×50×38mm |
| Weight | approx. 60g |
| Fitting position | variable |
| Operating/Storage temperature | 0 to +60°C (+32 to +140°F) / -40 to +60°C (-40 to +140°F) |
| Operating/Storage humidity | max. 95% RH (non-condensing) |
| Protection type | IP20 |

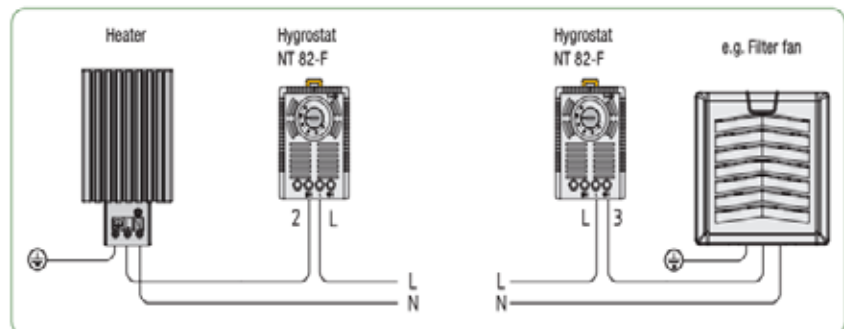
¹ at 50% RH

² When connecting with stranded wires, wire end ferrules must be used.

Connection Diagrams



Examples of Connection



| Art. No. | Setting range | Operating voltage |
|----------|---------------|-------------------|
| 82HF | 35 to 95% RH | 20VAC/DC, 250VAC |