



KTS 011(NO)

KTO 011(NC)

## KTO 011/KTS 011

## 产品特性 Features

- 宽范围温度设置 Large setting range
- 小尺寸 Small size
- 安装简单 Simple to mount
- 灵敏度高 High switching performance

KTO 011: 温控器(常闭), 用于调控加热器。

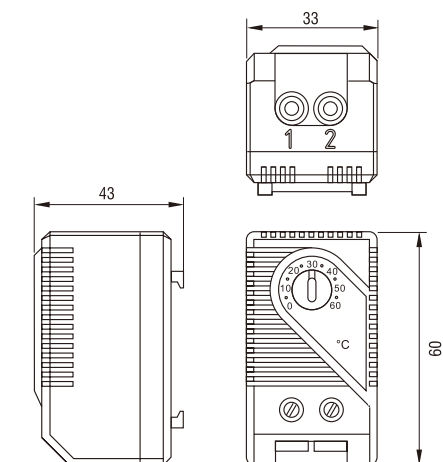
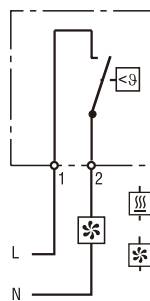
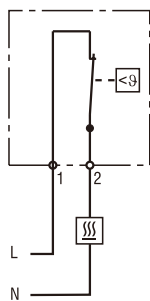
KTS 011: 温控器(常开), 当温度超出设定值时开关装置可以启动风机或信号装置。

KTO 011: Thermostat (normally closed), contact breaker for regulating heaters.

KTS 011: Thermostat (normally open), contact maker for regulating of filter fans and heat exchangers or for switching signal device when temperature limit has been exceeded.

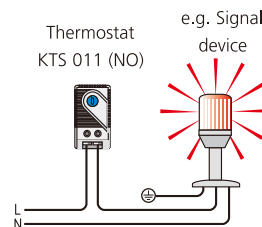
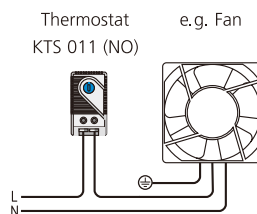
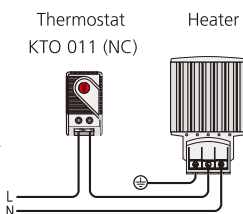
## 技术参数 Technical Data

|                                       |                                                                                                                                                                        |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 开关温差 Switch temperature difference    | 7K ( $\pm 4$ K tolerance)                                                                                                                                              |
| 传感元件 Sensor element                   | 感温材料 thermostatic bimetal                                                                                                                                              |
| 触点类型 Contact type                     | 快速动作触点 snap-action contact                                                                                                                                             |
| 触点电阻 Contact resistance               | < 10m $\Omega$                                                                                                                                                         |
| 使用寿命 Service life                     | > 100,000 cycles                                                                                                                                                       |
| 开关最大容量<br>Max. Switching capacity     | 250VAC, 10 (2) A<br>120VAC, 15 (2) A<br>DC 30W                                                                                                                         |
| EMC                                   | acc. to EN 55014-1-2, EN 61000-3-2, EN 61000-3-3                                                                                                                       |
| 接线方式 Connection                       | 2极接线端子 2.5mm <sup>2</sup> 导线<br>2-pole terminal, clamping torque 0.5Nm max.; rigid wire 2.5mm <sup>2</sup><br>stranded wire (with wire end ferrule) 1.5mm <sup>2</sup> |
| 安装方式 Mounting                         | 35mm DIN轨道<br>clip for 35mm DIN rail, EN60715 or for exit filter EF 118 Series                                                                                         |
| 外壳材料 Casing                           | 塑料 UL94标准 V-0 防火等级, plastic according to UL94 V-0, light grey                                                                                                          |
| 外观尺寸 Dimensions                       | 60 x 33 x 43mm                                                                                                                                                         |
| 重量 Weight                             | 约 40g approx. 40g                                                                                                                                                      |
| 安装位置 Fitting position                 | 任意 variable                                                                                                                                                            |
| 操作/储存温度 Operating/Storage temperature | -20 to +80°C (-4 to +176°F) / -45 to +80°C (-49 to +176°F)                                                                                                             |
| 防护等级 Protection type                  | IP20                                                                                                                                                                   |

Thermostat  
KTO 011 (NC)Thermostat  
KTS 011 (NO)

接线示意图 Example of connection

Heater  
Filter fan,  
Cooling equipment,  
Signal device



接线示意图 Example of connection

| 设定范围<br>Setting range | 订货代码<br>Art. No. Contact Breaker (NC) | 订货代码<br>Art. No. Contact Breaker (NO) | 产品证书<br>Approvals |
|-----------------------|---------------------------------------|---------------------------------------|-------------------|
| 0 to +60°C            | 01140.0-00                            | 01141.0-00                            | CE                |
| -10 to +50°C          | 01142.0-00                            | 01143.0-00                            | CE                |
| +20 to +80°C          | 01159.0-00                            | 01158.0-00                            | CE                |
| +32 to +140°F         | 01140.9-00                            | 01141.9-00                            | CE                |
| +14 to +122°F         | 01142.9-00                            | 01143.9-00                            | CE                |
| 0 to +60°C            | 01146.9-00                            | 01147.9-00                            | CE                |



## ZR 011

### 产品特性 Features

- 常开常闭一体化设计NO and NC in one casing
- 温度独立控制Separate adjustable temperatures
- 灵敏度高High switching capacity
- 易操作Terminals easily accessible
- 导轨安装DIN rail mounted

加热散热两用型温控器；常闭用于调控加热器；常开用于调控风机或开关信号装置。

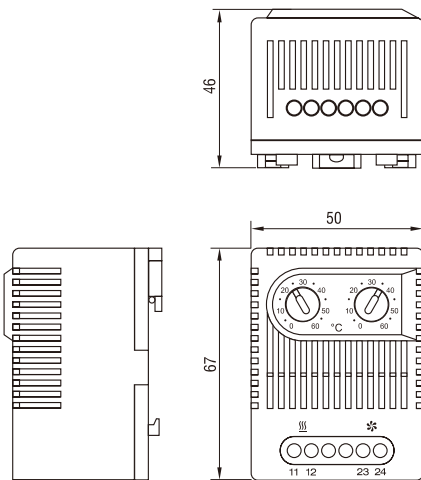
Two thermostats in one casing:

Thermostat (contact breaker, normally closed) for regulating heaters.

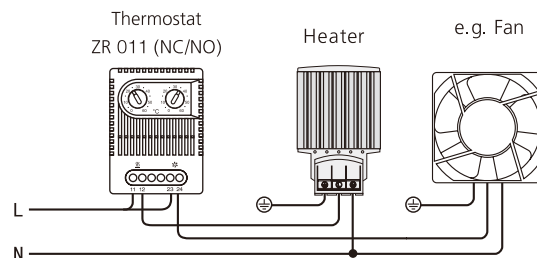
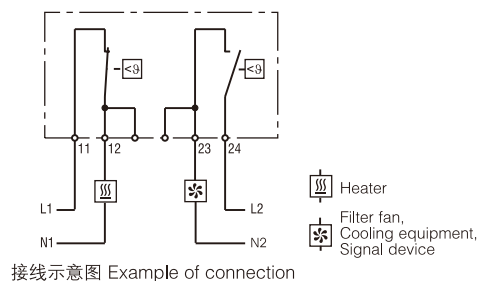
Thermostat (contact maker, normally open) for regulating filter fans and heat exchangers or switching signal devices when temperature limit has been exceeded. Heaters and cooling equipment can be switched independently from each other with a temperature offset as opposed to the usual change-over contacts.

### 技术参数 Technical Data

|                                      |                                                                                                                                                                       |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 开关温差Switch temperature difference    | 7K (±4K tolerance)                                                                                                                                                    |
| 传感元件Sensor element                   | 感温材料thermostatic bimetal                                                                                                                                              |
| 触点类型Contact type                     | 快速动作触点snap-action contact                                                                                                                                             |
| 触点电阻Contact resistance               | < 10mΩ                                                                                                                                                                |
| 使用寿命Service life                     | > 100,000 cycles                                                                                                                                                      |
| 开关最大容量<br>Max. Switching capacity    | 250VAC, 10 (2) A<br>120VAC, 15 (2) A<br>DC 30W                                                                                                                        |
| EMC                                  | acc. to EN 55014-1-2, EN 61000-3-2, EN 61000-3-3                                                                                                                      |
| 接线方式Connection                       | 4极接线端子2.5mm <sup>2</sup> 导线<br>4-pole terminal, clamping torque 0.5Nm max.; rigid wire 2.5mm <sup>2</sup><br>stranded wire (with wire end ferrule) 1.5mm <sup>2</sup> |
| 安装方式Mounting                         | 35mm DIN轨道<br>clip for 35mm DIN rail, EN60715 or for exit filter EF 118 Series                                                                                        |
| 外壳材料Casing                           | 塑料UL94标准V-0防火等级, plastic according to UL94 V-0, light grey                                                                                                            |
| 外观尺寸Dimensions                       | 67 x 50 x 46mm                                                                                                                                                        |
| 重量Weight                             | approx. 90g                                                                                                                                                           |
| 安装位置Installation position            | 任意variable                                                                                                                                                            |
| 操作/储存温度Operating/Storage temperature | -20 to +80°C (-4 to +176°F) / -45 to +80°C (-49 to +176°F)                                                                                                            |
| 防护等级Protection type                  | IP20                                                                                                                                                                  |



Thermostat  
ZR 011 (NC/NO)



| 订货代码<br>Art. No. | 设定范围<br>Setting range                             | 设定范围<br>Setting range                         |
|------------------|---------------------------------------------------|-----------------------------------------------|
| 01172.0-00       | contact breaker, normally closed<br>0 to +60°C    | contact maker, normally open<br>0 to +60°C    |
| 01172.0-01       | contact breaker, normally closed<br>+32 to +140°F | contact maker, normally open<br>+32 to +140°F |
| 01175.0-00       | contact breaker, normally closed<br>-10 to +50°C  | contact maker, normally open<br>+20 to +80°C  |
| 01175.0-01       | contact breaker, normally closed<br>+14 to +122°F | contact maker, normally open<br>+68 to +176°F |
| 01176.0-00*      | contact maker, normally open<br>0 to +60°C        | contact maker, normally open<br>0 to +60°C    |
| 01176.0-01*      | contact maker, normally open<br>+32 to +140°F     | contact maker, normally open<br>+32 to +140°F |





## FZK 021

## 产品特性 Features

- 可调节温度 Adjustable temperature
- 高分断能力 High switching capacity
- 低磁滞后 Small hysteresis
- 端子易接入 Terminals easily accessible
- 导轨安装 DIN rail mounted
- 转换接点 Change-over contact

机械式恒温器是用于控制加热器和冷风机或信号装置。

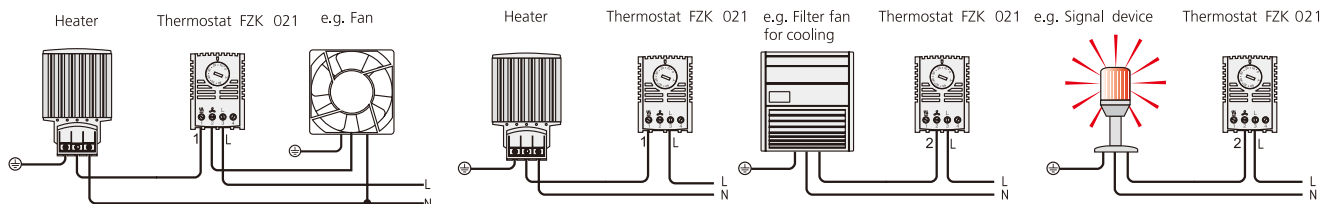
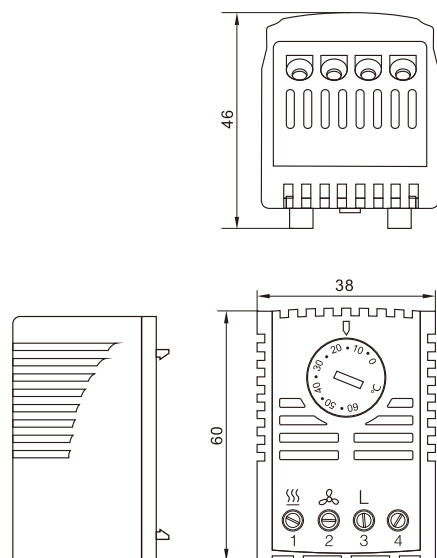
The mechanical thermostat is used for controlling heating and cooling equipment, filter fans or signal devices. The thermostat registers the surrounding air and can switch both inductive and resistive loads via snap-action contact.

## 技术参数 Technical Data

|                                          |                                                                                                                                                                       |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 开关温差 Switch temperature difference       | 4K ( $\pm 1.5K$ tolerance)                                                                                                                                            |
| 传感元件 Sensor element                      | 感温材料 Thermostatic bimetal                                                                                                                                             |
| 触点类型 Contact type                        | 快速动作接点 Snap-action contact                                                                                                                                            |
| 触点电阻 Contact resistance                  | < 10m $\Omega$                                                                                                                                                        |
| 使用寿命 Service life                        | > 100,000 cycles                                                                                                                                                      |
| 开关最大容量<br>Max. Switching capacity        | 250VAC, 10 (4) A<br>120VAC, 10 (4) A<br>DC 30W                                                                                                                        |
| 最大开关容量 NC<br>Max. Switching capacity, NC | 250VAC, 5 (2) A<br>120VAC, 5 (2) A<br>DC 30W                                                                                                                          |
| EMC                                      | acc. To EN 55014-1-2, EN 61000-3-2, EN 61000-3-3                                                                                                                      |
| 接线方式 Connection                          | 4极接线端子 2.5mm <sup>2</sup> 导线<br>4-pole terminal, damping torque 0.5Nm max.; rigid wire 2.5mm <sup>2</sup><br>stranded wire (with wire end ferrule) 1.5mm <sup>2</sup> |
| 安装方式 Mounting                            | 35mm DIN 轨道<br>clip for 35mm DIN rail, EN60715 or for exit filter EF 118 Series                                                                                       |
| 外壳材料 Casing                              | 塑料 UL94 标准 V-0 防火等级, plastic according to UL94 V-0, light grey                                                                                                        |
| 外观尺寸 Dimensions                          | 67 x 50 x 38mm                                                                                                                                                        |
| 重量 Weight                                | Approx. 0.10kg                                                                                                                                                        |
| 安装方式 Fitting position                    | 任意 variable                                                                                                                                                           |
| 操作/储存温度 Operating/Storage temperature    | -20 to +80°C (-4 to +176°F) / -45 to +80°C (-49 to +176°F)                                                                                                            |
| 防护等级 Protection type                     | IP20                                                                                                                                                                  |

\*连接端子 N (RF 加热电阻器) 可反馈热量信号, 从而减少温差大约 0.5K。

\*Connecting terminal "N" (RF heating resistor) causes the thermal feedback to work and so reduces the switch temperature difference to approx. 0.5K.



接线示意图 Example of connection

| 订货代码<br>Art. No. | 操作电压<br>Operating voltage | 设定范围<br>Setting range |
|------------------|---------------------------|-----------------------|
| 01170.0-00       | 230VAC                    | +5 to +60°C           |
| 01170.0-01       | 230VAC                    | +40 to +140°F         |
| 01170.0-02       | 230VAC                    | -20 to +30°C          |
| 01170.9-00       | 120VAC                    | +40 to +140°F         |
| 01170.9-01       | 120VAC                    | +5 to +60°F           |

## STF 012

### 产品特性 Features

- 温度和湿度都可调节 Temperature and humidity adjustable
- LED显示 Optical operating display (LED)
- 高分断能力 High switching capacity
- 导轨安装 DIN rail mounted

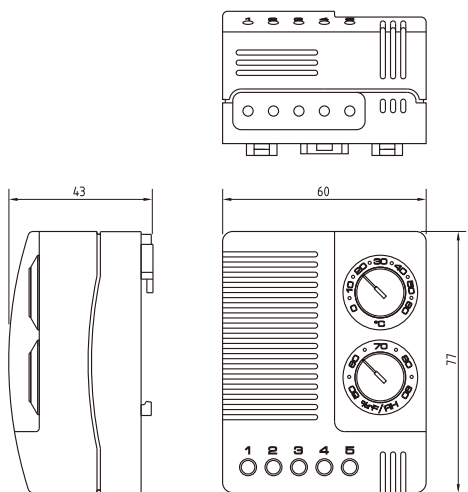
电子式温湿度传感器能根据环境温度与相对湿度来控制加热器和风机的打开与关闭。

Electronic temperature and humidity sensor can control the on & off of the heater and fan according to ambient temperature and relative humidity.

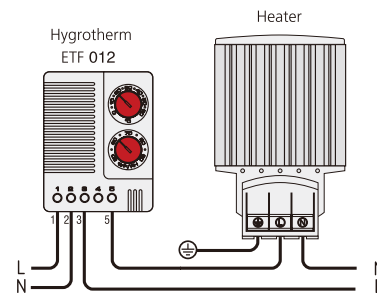
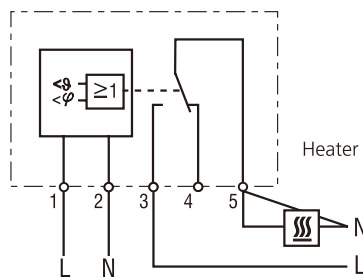


### 技术参数 Technical Data

|                                               |                                                                                                                                                                        |  |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 开关温差 Switch temperature difference            | 2K (±1K tolerance) at 25 °/77°F (50% RH)                                                                                                                               |  |
| 开关湿度差 Switch difference (humidity)            | 4% RH (±1% tolerance) at 25°C /77° F (50% RH)                                                                                                                          |  |
| 反应时间 Reaction time (humidity)                 | approx. 5 sec.                                                                                                                                                         |  |
| 触点类型 Contact type                             | 转换触点 change-over contact (relay)                                                                                                                                       |  |
| 触点电阻 Contact resistance                       | < 10mΩ                                                                                                                                                                 |  |
| 使用寿命 Service life                             | NC: > 50,000 cycles<br>NO: > 100,000 cycles                                                                                                                            |  |
| 最大开关容量 Max. Switching capacity (Relay output) | NC: 240VAC, 6 (1) A      NO: 240VAC, 8 (1.6) A<br>NC: 120VAC, 6 (1) A      NO: 120VAC, 8 (1.6) A<br>24VDC, 4A                                                          |  |
| EMC                                           | acc. to EN 55014-1-2, EN 61000-3-2, EN 61000-3-3                                                                                                                       |  |
| 指示灯 Optical indicator                         | LED                                                                                                                                                                    |  |
| 接线方式 Connection                               | 5极接线端子 2.5mm <sup>2</sup> 导线<br>5-pole terminal, clamping torque 0.5Nm max.: rigid wire 2.5mm <sup>2</sup><br>stranded wire (with wire end ferrule) 1.5mm <sup>2</sup> |  |
| 安装方式 Mounting                                 | 35mm DIN 轨道<br>clip for 35mm DIN rail, EN6075 or for exit filter EF 118 Series                                                                                         |  |
| 外壳材料 Casing                                   | 塑料 UL94标准 V-0 防火等级, plastic according to UL94 V-0, light grey                                                                                                          |  |
| 外观尺寸 Dimensions                               | 77 x 60 x 43mm                                                                                                                                                         |  |
| 重量 Weight                                     | approx. 0.20kg                                                                                                                                                         |  |
| 安装位置 Installation position                    | 任意 vertical                                                                                                                                                            |  |
| 操作/储存温度 Operating/Storage temperature         | 0 to +60°C (+32 to +140°F) / -20 to +80°C (-4 to +176°F)                                                                                                               |  |
| 防护等级 Protection type                          | IP20                                                                                                                                                                   |  |



Connection diagram



接线示意图 Example of connection

| 订货代码<br>Art. No. | 操作电压<br>Operating voltage | 温度设定范围<br>Setting range temperature | 湿度设定范围<br>Setting range humidity |
|------------------|---------------------------|-------------------------------------|----------------------------------|
| S1230.0-00       | 230VAC, 50/60Hz           | 0 to +60 °C                         | 50 to 90% RH                     |
| S1230.9-00       | 120VAC, 50/60Hz           | +32 to +140 °F                      | 50 to 90% RH                     |
| S1230.9-01       | 120VAC, 50/60Hz           | 0 to +60 °C                         | 50 to 90% RH                     |



## ETR 011

## 产品特性 Features

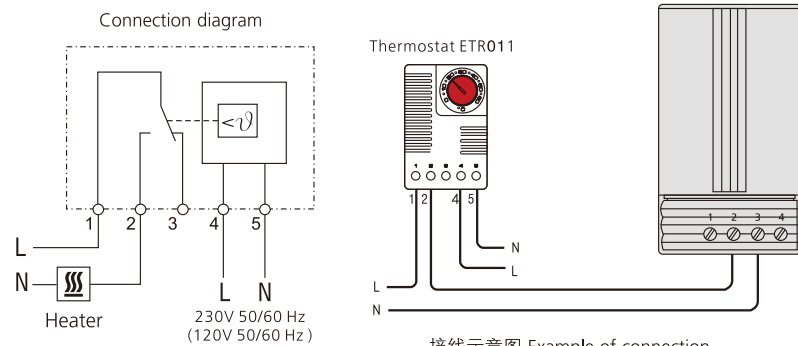
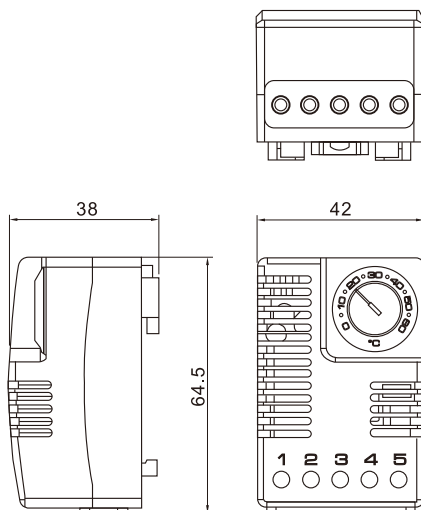
- 可调节温度 Adjustable temperature
- LED显示 Optical operating display (LED)
- 高分断能力 High switching capacity
- 导轨安装 DIN rail mounted

电子式温度传感器能根据环境温度来控制加热器的打开与关闭。

Electronic temperature sensors can control the on & off of heater according to the ambient temperature.

## 技术参数 Technical Data

|                                               |                                                                                                                                                                       |  |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 开关温差 Switch temperature difference            | 2K (± 1K tolerance) at 25°C/77° F (50% RH)                                                                                                                            |  |
| 反应时间 Reaction time (humidity)                 | approx. 5 sec.                                                                                                                                                        |  |
| 触点类型 Contact type                             | 转换触点 change-over contact (relay)                                                                                                                                      |  |
| 触点电阻 Contact resistance                       | < 10mΩ                                                                                                                                                                |  |
| 使用寿命 Service life                             | NC: > 50,000 cycles<br>NO: > 100,000 cycles                                                                                                                           |  |
| 最大开关容量 Max. Switching capacity (Relay output) | NC: 240VAC, 6 (1) A      NO: 240VAC, 8 (1.6) A<br>NC: 120VAC, 6 (1) A      NO: 120VAC, 8 (1.6) A<br>24VDC, 4A                                                         |  |
| EMC                                           | acc. to EN 55014-1-2, EN 61000-3-2, EN 61000-3-3                                                                                                                      |  |
| 指示灯 Optical indicator                         | LED                                                                                                                                                                   |  |
| 接线方式 Connection                               | 5极接线端子 2.5mm <sup>2</sup> 导线<br>5-pole terminal clamping torque 0.5Nm max.: rigid wire 2.5mm <sup>2</sup><br>stranded wire (with wire end ferrule) 1.5mm <sup>2</sup> |  |
| 安装方式 Mounting                                 | 35mm DIN轨道<br>clip for 35mm DIN rail, EN6075 or for exit filter EF 118 Series                                                                                         |  |
| 外壳材料 Casing                                   | 塑料 UL94标准 V-0 防火等级, plastic according to UL94 V-0, light grey                                                                                                         |  |
| 外观尺寸 Dimensions                               | 64.5 x 42 x 38mm                                                                                                                                                      |  |
| 重量 Weight                                     | approx. 70g                                                                                                                                                           |  |
| 安装位置 Installation position                    | 任意 vertical                                                                                                                                                           |  |
| 操作/储存温度 Operating/Storage temperature         | 0 to +60°C (+32 to +140°F) / -20 to +80°C (-4 to +176°F)                                                                                                              |  |
| 防护等级 Protection type                          | IP20                                                                                                                                                                  |  |



| 订货代码       | 操作电压              | 温度设定范围                    | 湿度设定范围                 |
|------------|-------------------|---------------------------|------------------------|
| Art. No.   | Operating voltage | Setting range temperature | Setting range humidity |
| 01131.0-00 | 230VAC, 50/60Hz   | -20 to +60 °C             | CSA-US (VDE submitted) |
| 01131.9-00 | 120VAC, 50/60Hz   | -4 to +140 °F             | 140°F CSA-US           |



### FZK 011

#### 产品特性 Features

- 可调节温度 Adjustable temperature
- 低磁滞 Small hysteresis
- 导轨安装 DIN rail mounted
- 高分断能力 High switching capacity
- 端子易接入 Terminals easily accessible
- 转换接点 Change-over contact

电子式恒温器是用于控制加热器和冷风机或信号装置。

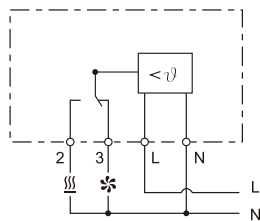
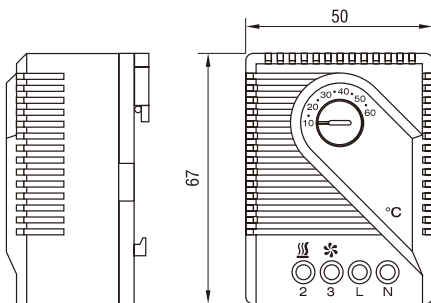
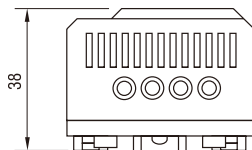
The electronic thermostat is used for controlling heating and cooling equipment, filter fans or signal devices. The thermostat registers the surrounding air and can switch both inductive and resistive loads via snap-action contact.

#### 技术参数 Technical Data

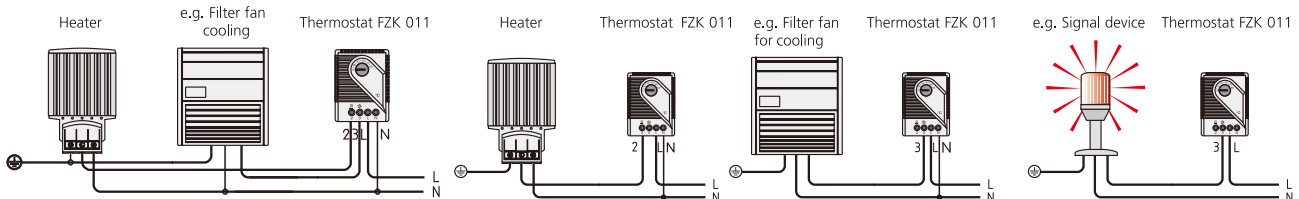
|                                          |                                                                                                                                                                       |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 开关温差 Switch temperature difference       | 4K (± 1.5K tolerance)                                                                                                                                                 |
| 传感元件 Sensor element                      | 感温材料 Thermostatic bimetal                                                                                                                                             |
| 触点类型 Contact type                        | 快速动作接点 snap-action contact                                                                                                                                            |
| 触点电阻 Contact resistance                  | < 10mΩ                                                                                                                                                                |
| 使用寿命 Service life                        | > 100,000 cycles                                                                                                                                                      |
| 开关最大容量<br>Max. Switching capacity        | 250VAC, 10 (4) A<br>120VAC, 10 (4) A<br>DC 30W                                                                                                                        |
| 最大开关容量 NC<br>Max. Switching capacity, NC | 250VAC, 5 (2) A<br>120VAC, 5 (2) A<br>DC 30W                                                                                                                          |
| EMC                                      | Acc. To EN 55014-1-2, EN 61000-3-2, EN 61000-3-3                                                                                                                      |
| 接线方式 Connection                          | 4极接线端子 2.5mm <sup>2</sup> 导线<br>4-pole terminal, damping torque 0.5Nm max.; rigid wire 2.5mm <sup>2</sup><br>stranded wire (with wire end ferrule) 1.5mm <sup>2</sup> |
| 安装方式 Mounting                            | 35mm DIN 轨道<br>clip for 35mm DIN rail, EN60715 or for exit filter EF 118 Series                                                                                       |
| 外壳材料 Casing                              | 塑料 UL94标准 V-0 防火等级, plastic according to UL94 V-0, light grey                                                                                                         |
| 外观尺寸 Dimensions                          | 67 x 50 x 38mm                                                                                                                                                        |
| 重量 Weight                                | Approx. 0.10kg                                                                                                                                                        |
| 安装位置 Installation position               | 任意 variable                                                                                                                                                           |
| 操作/储存温度 Operating/Storage temperature    | -20 to +80°C (-4 to +176°F) / -45 to +80°C (-49 to +176°F)                                                                                                            |
| 防护等级 Protection type                     | IP20                                                                                                                                                                  |

\*连接端子 N (RF 加热电阻器) 可反馈热量信号, 从而减少温差大约 0.5K。

\*Connecting terminal "N" (RF heating resistor) causes the thermal feedback to work and so reduces the switch temperature difference to approx. 0.5K.



Connection diagram



接线示意图 Example of connection

| 订货代码<br>Art. No. | 操作电压<br>Operating voltage | 设定范围<br>Setting range |
|------------------|---------------------------|-----------------------|
| 01170.0-00       | 230VAC                    | +5 to +60°C           |
| 01170.0-01       | 230VAC                    | +40 to +140°F         |
| 01170.0-02       | 230VAC                    | -20 to +30°C          |
| 01170.9-00       | 120VAC                    | +40 to +140°F         |
| 01170.9-01       | 120VAC                    | +5 to +60°C           |



### ET 011 24VDC

#### 产品特性 Features

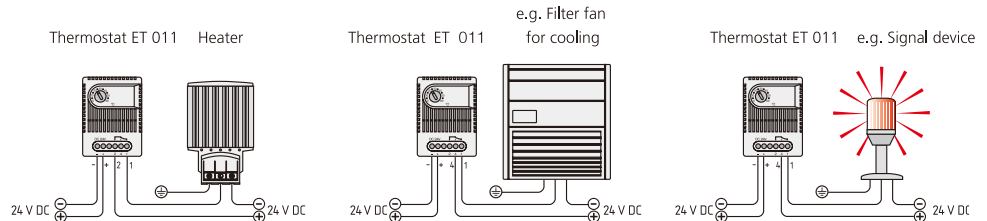
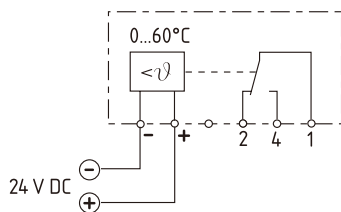
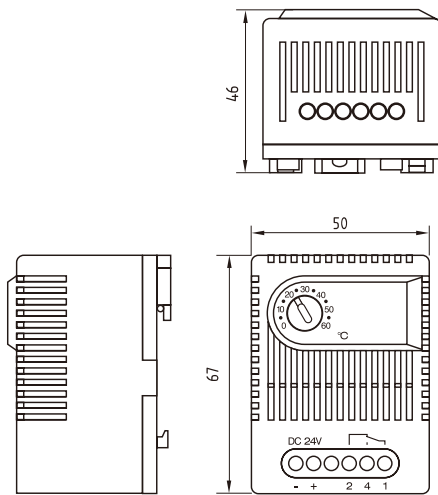
- 高直流分断能力 High DC breaking capacity
- 低滞后 Low hysteresis
- 可调整温度 Adjustable temperature
- 切换接点 Change-over contact
- 导轨安装 DIN rail mounted

直流24V高性能电子温控器，可以调控加热器散热以及信号装置。与机械式温控器相比，ET011有低滞后性，使切换点和设置精度更加精确。

Electronic thermostat for regulating high performance DC 24V equipment. Heating or cooling appliances as well as signal devices can be switched via the potential free change-over contact. In comparison to mechanical thermostats, the ET 011 has a low hysteresis making the switching point and setting accuracy more precise.

#### 技术参数 Technical Data

|                                     |                                                                                                                                                                        |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 开关温差 Switch temperature difference  | Approx. 3K                                                                                                                                                             |
| 传感器元件 Sensor element                | PTC                                                                                                                                                                    |
| 触点类型 Contact type                   | 切换型 Change-over                                                                                                                                                        |
| 触点电阻 Contact resistance             | < 10mΩ                                                                                                                                                                 |
| 使用寿命 Service life                   | > 100,000 cycles                                                                                                                                                       |
| 最大开关容量 Max. switching capacity      | 28VDC, 16A                                                                                                                                                             |
| EMC                                 | Acc. To EN 55014-1-2, EN 61000-3-2, EN 61000-3-3                                                                                                                       |
| 接线方式 Connection                     | 5极接线端子 2.5mm <sup>2</sup> 导线<br>5-pole terminal, clamping torque 0.5Nm max.: rigid wire 2.5mm <sup>2</sup><br>stranded wire (with wire end ferrule) 1.5mm <sup>2</sup> |
| 安装方式 Mounting                       | 35mm DIN 轨道<br>clip for 35mm DIN rail, EN60715 or for exit filter EF 118 Series                                                                                        |
| 外壳材料 Casing                         | 塑料 UL94标准 V-0 防火等级, plastic according to UL94 V-0, light grey                                                                                                          |
| 外观尺寸 Dimensions                     | 67 x 50 x 46mm                                                                                                                                                         |
| 重量 Weight                           | Approx. 80g                                                                                                                                                            |
| 安装位置 Installation position          | □□□□ variable                                                                                                                                                          |
| □□□□□ Operating/Storage temperature | 0 to +60°C (32 to +140°F) / -45 to +80°C (-49 to +176°F)                                                                                                               |
| 防护等级 Protection type                | IP20                                                                                                                                                                   |



接线示意图 Example of connection

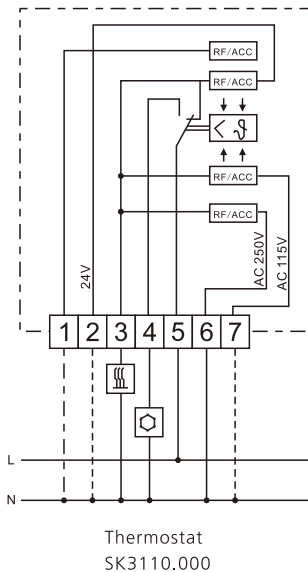
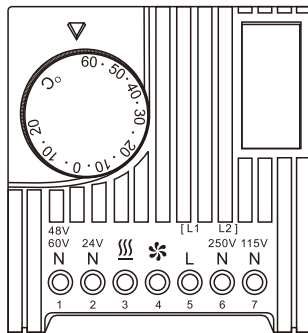
|                  |                           |                         |
|------------------|---------------------------|-------------------------|
| 订货代码<br>Art. No. | 操作电压<br>Operating voltage | 温度设定范围<br>Setting range |
| 01190.0-00       | 24VDC (20-28VDC)          | 0 to +60°C              |

### SK3110.000

#### 产品特性 Features

主要用于控制风机、加热器和转换器，也可以用于监控配电柜内的温度。

Especially used for controlling fan filter, heater and exchanger, also could be monitoring the electric cabinet inner temperature when working as signal arcuser.



接线示意图 Example of connection

#### 参数说明 Parameter Clarification

- ◇温度调节范围：-20°C到+60°C
- ◇重量：105克
- ◇外观尺寸：70×70×33.5mm
- ◇使双金属传感器热灵敏度设置反馈热。
- ◇接触点方案：单开关接触点为瞬时开关组件
- ◇允许接触点荷载
- ◇Adjusting range:-20°C to +60°C
- ◇Weight:105g
- ◇Size :70 × 70 × 33.5mm
- ◇Make bimetal sensor as heat sensitivity set to feedback of heat.
- ◇Contact point scheme: single switch over contact point as instant switch component
- ◇allowed load of contact point

KL5-3

AC10(4)A

DC=30W

KL5-4(冷却)(Cooling)

AC5(4)DA

DC=30W

( D ) =在COS  $\phi$  = 0.6敏感性负

- ◇开关误差 1K±0.8K
- ◇宽电压范围, 24V~230V
- ◇连接方便, 端子能够从外部用螺丝固定连接.
- ◇安装简单, 它能够垂直或水平安装在35mm导轨上.
- ◇Switch discrepancy" 1K±0.8K
- ◇Voltage scope is wide, any type could be used from 24V to 230V
- ◇Time-saving connection, terminal block could be installed with screw from outside
- ◇Easy installation, it could be installed to 35mm din rail vertically or horizontally





### REX 011 15°C, 25°C

#### 产品特性 Features

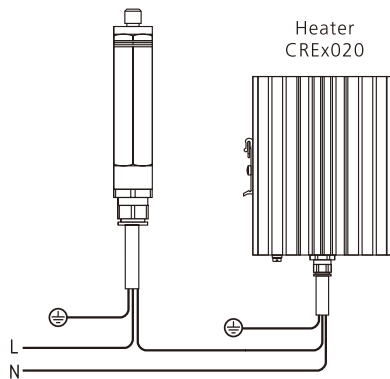
- 紧凑型设计 Compact design
- 可设置温度 Set temperature
- 高分断能力 High switching capacity

小型机械式防爆温控器用于调节温度和控制热量。例如在传送装备中,控制面板和测量仪器被放置在防爆区域。这种特殊的监控器体积小,温度精度高(误差小)、寿命长,可直接控制加热器。

Compact small mechanical thermostat for temperature regulation and monitoring of heaters, for example in transmitter cabinets, control panels and measuring equipment which are deployed in areas with explosion hazard. The special switch construction enables high response accuracy, small switch temperature difference and a very long service life. High switching performance allows direct control of the heaters.

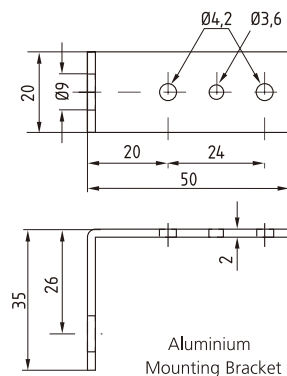
#### 技术参数 Technical Data

Hazardous Area Thermostat  
REX 011

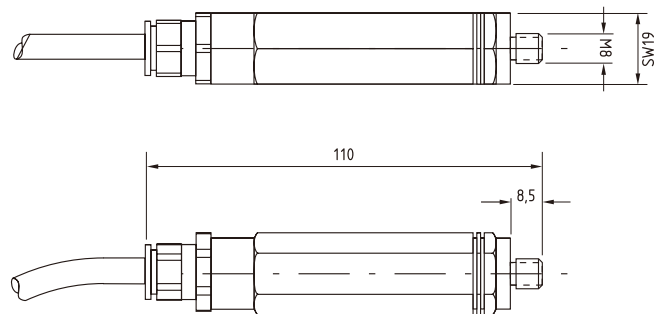


接线示意图 Example of connection

|                                      |                                                            |
|--------------------------------------|------------------------------------------------------------|
| Explosion proof according to EN      | LCIE (Laboratoire Central des Industries Electriques)      |
| 符合的认证Conformity certificate          | 01 ATEX 6074/02, LCIE N° 06 ATEX Q8011, IECEx LCI 07. 0021 |
| 传感器元件Sensor element                  | 感温材料thermostatic bimetal                                   |
| 触点方式(1P)Contact type (1-pole)        | 打开控制温度上升opens with rising temperature                      |
| 使用寿命Service life                     | > 100,000 cycles                                           |
| 最大开关容量Max. Switching capacity        | 250VAC, 4 (1) A                                            |
| 接线方式Connection                       | Si HF – JZ 3 x 0.75mm <sup>2</sup> length 1m               |
| 安装方式Mounting                         | 安装支架带M8螺母mounting bracket with nut M8 (see illustration)   |
| 外壳材料Casing                           | 铝aluminium, black anodised                                 |
| 外观尺寸Dimensions                       | length 110mm                                               |
| 重量Weight                             | approx. 0.20kg                                             |
| 安装位置Installation position            | 任选variable                                                 |
| 操作/储存环境Operating/Storage temperature | -20 to +40°C (-4 to +104°F)/-45 to +70°C (-49 to +158°F)   |
| 防护等级Protection type/Protection class | IP65 / I (earthed)                                         |



Aluminium  
Mounting Bracket



接线示意图 Example of connection

| 订货代码<br>Art. No. | Ex保护等级<br>Ex protection type       | 开关温度<br>Switch-off temperature | 开启温度差<br>Switch temperature difference |
|------------------|------------------------------------|--------------------------------|----------------------------------------|
| 01180.0-00       | Ex d IIC T6 - Ex td A21 IP6X T85°C | +15°C (± 4K tolerance)         | 4K (± 1K tolerance)                    |
| 01181.0-00       | Ex d IIC T6 - Ex td A21 IP6X T85°C | +25°C (± 4K tolerance)         | 4K (± 1K tolerance)                    |

## EFR 012

### 产品特性 Features

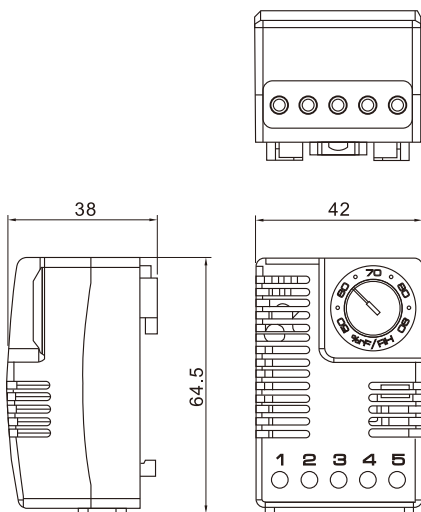


- 高分断能力 High switching capacity
- 灵敏度高 High switching capacity
- 可调节湿度 Adjustable humidity
- 切换接点 Change-over contact
- 导轨安装 DIN rail mounted

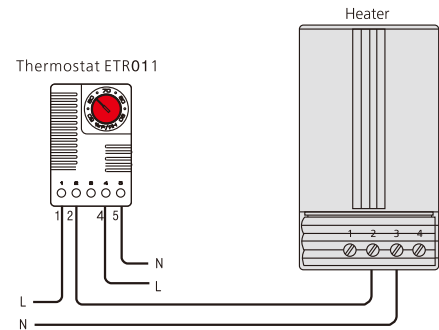
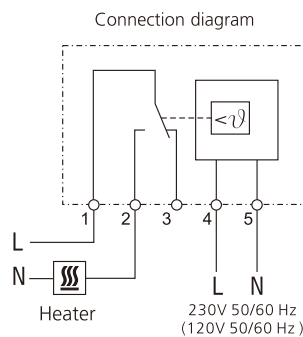
当配电箱内相对湿度超出65%时，EFR012可控制加热器加热，以减少水份凝结和有效防止腐蚀。与机械式温控器相比，EFR012有低滞后性，使切换点和设置精度更加精确。

When the relative humidity in the power distribution box exceeds 65%, EFR012 will control the heater heating, in order to reduce the moisture condensation and effectively prevent corrosion. Compared with mechanical thermostat, EFR012 with low hysteresis, making it's switching point and setting accuracy more precise.

### 技术参数 Technical Data



|                                       |                                                                                                                                                                     |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 开关湿差 Switch temperature difference    | 5% RH ( $\pm 3\%$ RH tolerance) at 25°C                                                                                                                             |
| 传感器元件 Sensor element                  | PTC                                                                                                                                                                 |
| 触点类型 Contact type                     | 切换型 Change-over                                                                                                                                                     |
| 触点电阻 Contact resistance               | < 10m $\Omega$                                                                                                                                                      |
| 使用寿命 Service life                     | > 100,000 cycles                                                                                                                                                    |
| 最大开关容量 Max. switching capacity        | 28VDC, 16A                                                                                                                                                          |
| EMC                                   | Acc. To EN 55014-1-2, EN 61000-3-2, EN 61000-3-3                                                                                                                    |
| 接线方式 Connection                       | 5极接线端子 2.5mm <sup>2</sup> 导线<br>5-pole terminal, clamping torque 0.5Nm max.: rigid wire 2.5mm <sup>2</sup> stranded wire (with wire end ferrule) 1.5mm <sup>2</sup> |
| 安装方式 Mounting                         | 35mm DIN 轨道<br>clip for 35mm DIN rail, EN60715 or for exit filter EF 118 Series                                                                                     |
| 外壳材料 Casing                           | 塑料 UL94 标准 V-0 防火等级, plastic according to UL94 V-0, light grey                                                                                                      |
| 外观尺寸 Dimensions                       | 64.5 x 42 x 38mm                                                                                                                                                    |
| 重量 Weight                             | Approx. 80g                                                                                                                                                         |
| 安装位置 Installation position            | <input type="checkbox"/> variable                                                                                                                                   |
| 操作/储存温度 Operating/Storage temperature | 0 to +60°C (32 to +140°F) / -45 to +80°C (-49 to +176°F)                                                                                                            |
| 防护等级 Protection type                  | IP20                                                                                                                                                                |



接线示意图 Example of connection

| 订货代码<br>Art. No. | 操作电压<br>Operating voltage | 湿度设定范围<br>Setting range humidity |
|------------------|---------------------------|----------------------------------|
| 01245.0-00       | 230VAC, 50/60Hz           | 40 to 90% RH VDE + UL intended   |
| 01246.0-00       | 230VAC, 50/60Hz           | 65% RH pre-set VDE + UL intended |
| 01245.9-00       | 120VAC, 50/60Hz           | 40 to 90% RH UL intended         |
| 01246.9-00       | 120VAC, 50/60Hz           | 65% RH pre-set UL intended       |



## MFR 012

### 产品特性 Features

- 相对湿度调节 Adjustable relative humidity
- 转换触点 Change-over contact
- 灵敏度高 High switching capacity
- 易操作 Easily accessible terminals
- 导轨安装 DIN rail mounted

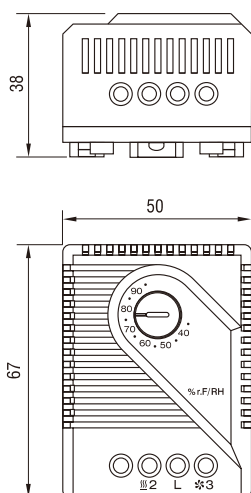
当配电箱内相对湿度超出65%时，MFR012可控制加热器加热，以减少水份凝结和有效防止腐蚀。

The electromechanical hygrostat MFR 012 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 is effectively prevented.

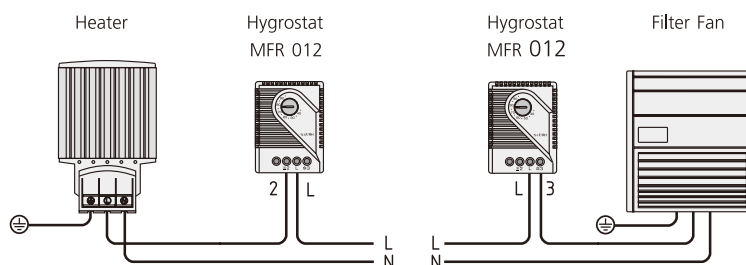
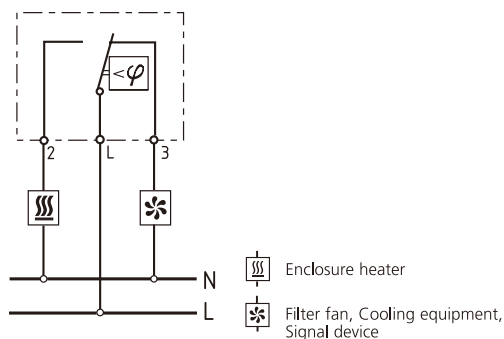
### 技术参数 Technical Data

|                                       |                                                                                                                                                                       |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 开关湿度差 Switch difference               | 4% RH (±3% tolerance)                                                                                                                                                 |
| 气流速度 Permissible air velocity         | 15m/sec                                                                                                                                                               |
| 触点类型 Contact type                     | 转换触点 change-over contact                                                                                                                                              |
| 触点电阻 Contact resistance               | < 10mΩ                                                                                                                                                                |
| 使用寿命 Service life                     | > 100,000 cycles                                                                                                                                                      |
| 开关最小容量 Min. Switching capacity        | 20V AC/DC, 100mA                                                                                                                                                      |
| 开关最大容量 Max. Switching capacity        | 250VAC, 5 (1) A<br>DC 20W                                                                                                                                             |
| EMC                                   | acc. to EN 55014-1-2, EN 61000-3-2, EN 61000-3-3                                                                                                                      |
| 接线方式 Connection                       | 3极接线端子 2.5mm <sup>2</sup> 导线<br>3-pole terminal, damping torque 0.5Nm max.: rigid wire 2.5mm <sup>2</sup><br>stranded wire (with wire end ferrule) 1.5mm <sup>2</sup> |
| 安装方式 Mounting                         | 35mm DIN轨道<br>dip for 35mm DIN rail, EN60715 or for exit filter EF 118 Series                                                                                         |
| 外壳材料 Casing                           | 塑料 UL94标准 V-0 防火等级, plastic according to UL94 V-0, light grey                                                                                                         |
| 安装尺寸 Dimensions                       | 67 x 50 x 38mm                                                                                                                                                        |
| 重量 Weight                             | approx. 60g                                                                                                                                                           |
| 安装位置 Installation position            | 任意 variable                                                                                                                                                           |
| 操作/储存温度 Operating/Storage temperature | -20 to +80°C (-4 to +176°F) / -45 to +80°C (-49 to +176°F)                                                                                                            |
| 防护等级 Protection type                  | IP20                                                                                                                                                                  |

\*at 50% RH



Connection diagram



接线示意图 Example of connection

订货代码

Art. No.

01220.0-00

湿度设定范围

Setting range

35 to 95% RH

## LC 013/LCF 013

### 产品特性 Features

- 机械式开关触点Mechanical switch contact
- 应用广泛Versatile fields of application
- 体积小Small size
- 易安装Easy to connect

风感器是用于指示风机或过滤器的风量损失。

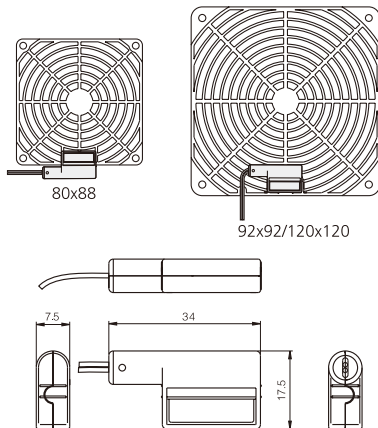
Air flow sensor is used to indicate the air loss of a fan or fan filter.

### 技术参数 Technical Data

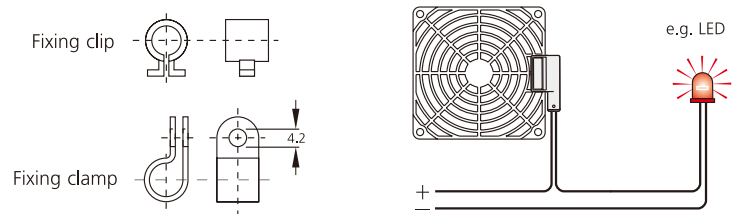
|                                                    |                                                                                                                                              |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 触点类型Contact type                                   | 磁触点Reed / magnet contact                                                                                                                     |
| 常闭Normally Closed (NC)                             | 空气流动时开关触点打开Switch contact open when air is flowing                                                                                           |
| 常开Normally Open (NO)                               | 空气流动时开关触点关闭Switch contact closed when air is flowing                                                                                         |
| 最大开关电压Max. switching voltage                       | NC: 240VDC (UL), 240V AC/DC (VDE) / NO: 60VDC                                                                                                |
| Max. switching current                             | NC: DC 500mA / NO: DC 170mA                                                                                                                  |
| 最大切换容量Max. switching capacity                      | 10W (电阻负载resistive load)                                                                                                                     |
| 风速开关切换值<br>Switching threshold of airflow velocity | > 2.5m/s (hysteresis: > 1m/s)                                                                                                                |
| 最大风速Max. airflow velocity                          | 50m/s                                                                                                                                        |
| 触点电阻Contact resistance                             | < 370mΩ (with wire)                                                                                                                          |
| 最大空气湿度Max. air humidity                            | 70% RH (not precipitating)                                                                                                                   |
| 使用寿命Service life                                   | > 100,000 cycles                                                                                                                             |
| 接线方式Connection                                     | 2条AWG26电线长度500mm, NC为黑线, NO为蓝线<br>2 x single strand AWG 26, length 500mm, tip of stranded wire 5mm stripped and tinned (NC: black, NO: blue) |
| 安装方式Mounting                                       | 卡入式<br>alternatively integrated in protective grille, mounting clamp or mounting clip                                                        |
| 外壳材料Casing                                         | 塑料UL94-HB黑色plastic according to UL94-HB, black                                                                                               |
| 安装位置Installation position                          | 卡入风机网罩内bidirectional tab perpendicular to airflow                                                                                            |
| 操作/储存温度Operating/Storage temperature               | -20 to +50°C (-4 to +122°F) / -20 to +80°C (-4 to +176°F)                                                                                    |
| 防护等级Protection type                                | IP20                                                                                                                                         |

□□□□□□□□

Airflow monitor integrated in protective grille



Connection example

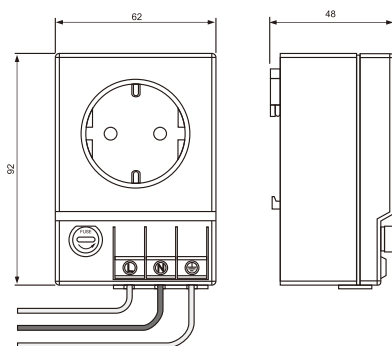


接线示意图 Example of connection

| 描述<br>Description                                                 | 订货代码<br>Art. No.(NC) | 订货代码<br>Art. No.(NO) | 尺寸<br>Dimensions  | 重量<br>Weight(approx.) |
|-------------------------------------------------------------------|----------------------|----------------------|-------------------|-----------------------|
| Airflow monitor with mounting clamp and mounting clip LC 013      | 01300.0-00           | 01300.1-00           | 34 x 17.5 x 7.5mm | 5g                    |
| Airflow monitor integrated in protective grille (plastic) LCF 013 | 01301.0-00           | 01301.1-00           | 80 x 88 x 10.5mm  | 20g                   |
|                                                                   | 01302.0-00           | 01302.1-00           | 92 x 92 x 10mm    | 20g                   |
|                                                                   | 01303.0-00           | 01303.1-00           | 120 x 120 x 10mm  | 30g                   |



配件



Connections from mains

## SD 035

## 产品特性 Features

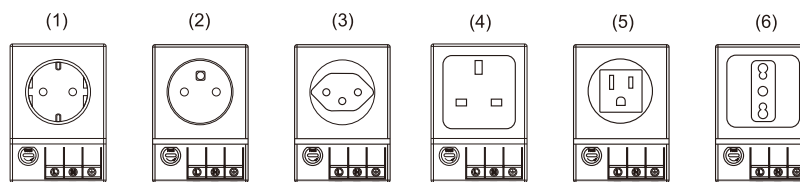
- 快速连接 Quickly connected
- 可带或不带保险丝 Available with or without fuse
- 固定夹 Clip fixing

导轨安装的电源插座，可以快速安装和连接到配电箱，允许使用辅助产品，如手提灯，测量装置，电烙铁等。该产品适合带保险丝及不带保险丝使用。符合大部分国家及地区插座标准。

The DIN rail mounted electrical socket can be quickly fitted and connected in enclosures allowing the use of auxiliary products such as hand lamps, measuring devices, soldering irons etc. The unit is available with and without fuse and in many world socket standards.

## 技术参数 Technical Data

|                                               |                                                                                                               |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 连接 Connection                                 | 3 x 压力钳夹刚性导线 0.5-2.5mm <sup>2</sup><br>3 x pressure clamps for stranded and rigid wire 0.5-2.5mm <sup>2</sup> |
| 安装 Mounting                                   | 夹为35mm的导轨, EN 60715 clip for 35mm DIN rail, EN 60715                                                          |
| 套管 Casing                                     | 塑料依据 Plastic according to UL94 v-O, 浅灰色 light grey                                                            |
| 尺寸 Dimensions                                 | 92x62x48mm                                                                                                    |
| 重量 Weight                                     | 大约 approx. 0.2kg                                                                                              |
| 安装方式 Fitting position                         | 可变的 variable                                                                                                  |
| 工作/储存温度<br>Operating/Storage temperature      | -45 to +70° C (-49 to +158° F)                                                                                |
| 工作/储存湿度<br>Operating/Storage humidity         | 最大 90%RH (非冷凝)<br>Max 90%RH (non-condensing)                                                                  |
| 保护类型/防护等级<br>Protection type/Protection class | IP20 / I (earthed)                                                                                            |



| 订货代码<br>Art. No. | 操作电压<br>Operating voltage | 插座<br>Socket      | 模式<br>Model       | 额定电流<br>Nominal Current |
|------------------|---------------------------|-------------------|-------------------|-------------------------|
| 03500.0-00       | 250VAC                    | Germany/Russia(1) | with fuse* 带熔丝    | 6.3A                    |
| 03500.0-01       | 250VAC                    | Germany/Russia(1) | without fuse 不带熔丝 | 16.0A                   |
| 03501.0-00       | 250VAC                    | F/PL/CZ/SK(2)     | with fuse* 带熔丝    | 6.3A                    |
| 03501.0-01       | 250VAC                    | F/PL/CZ/SK(2)     | without fuse 不带熔丝 | 16.0A                   |
| 03502.0-00       | 250VAC                    | Switzerland(3)    | with fuse* 带熔丝    | 6.3A                    |
| 03502.0-01       | 250VAC                    | Switzerland(3)    | without fuse 不带熔丝 | 10.0A                   |
| 03503.0-00       | 250VAC                    | UK/Ireland(4)     | with fuse* 带熔丝    | 6.3A                    |
| 03503.0-01       | 250VAC                    | UK/Ireland(4)     | without fuse 不带熔丝 | 13.0A                   |
| 03504.0-00       | 125VAC                    | USA/Canada(5)     | with fuse* 带熔丝    | 6.3A                    |
| 03504.0-01       | 125VAC                    | USA/Canada(5)     | without fuse 不带熔丝 | 15.0A                   |
| 03505.0-00       | 250VAC                    | Italy(6)          | with fuse* 带熔丝    | 6.3A                    |
| 03505.0-01       | 250VAC                    | Italy(6)          | without fuse 不带熔丝 | 16.0A                   |

\*fuse 熔丝 Φ5x20mm

### SP-1000

#### 摘要 Summary

SP-1000温控器通常用于商业、工业和民用建筑，它能控制空调的风机线圈、水阀，使温度保持在设定的范围内。

SP-1000 series thermostats are usually used on the commercial, industrial and civil constructions, which can control the fan coil of air-conditioning, water valve and wind valvelet. It can make the temperature balance in the setting range in the location, and switches are manual witch, Very simple to manipulate.

#### 特征 Characteristics

拨动按钮来设置温度：指示的那个地方显示的是当前温度值。

系统开关：用以打开/关闭温控器。

工作开关：加热/制冷开关，加热/制冷模式。

风速开关：低速-中速-高速，风闸控制器无此功能。

Dialing button for setting the temperature: The place the finger points to is the current temperature value.

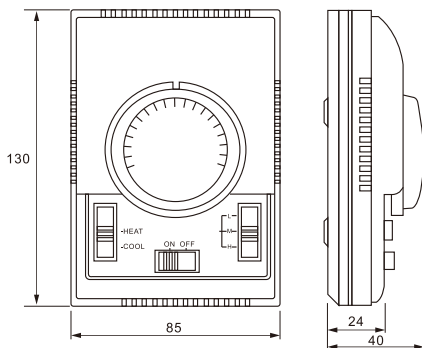
ON/OFF Switch for System: Press ON/OFF Key to turn on/off of the thermostat .

Working Mode switch: Press HEAT/COOL key to switch the heating / cooling mode.

Fan Speed Key:-L-M-H,that is, Low speed-Middle speed-High speed, Wind valve controller does not have this flection.

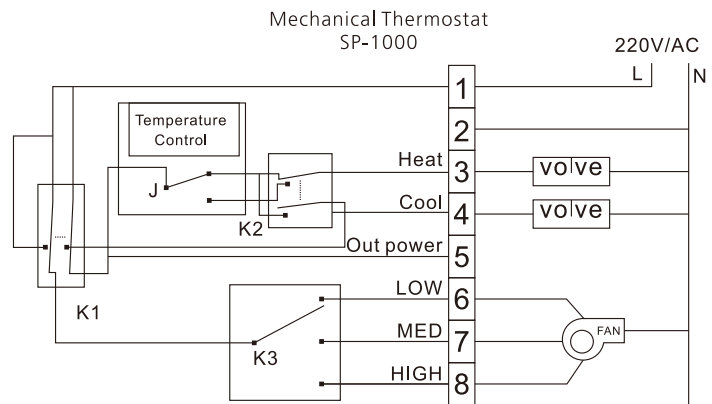


SP-1000



#### 功能说明 Functions spec

| 型号<br>Model | 功能说明<br>Function Explanation                                        | 控制对象<br>Objects Controlled                                                                                       |
|-------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| SP-1000     | 4 tubes fan coil controller , can be set up to control the fan coil | 3 gears of fan coil ,2 and 3 wire of motorized valve , magnetic value on/off wind valve ,3 wires of wind valve . |



接线示意图 Example of connection



## SP-2000

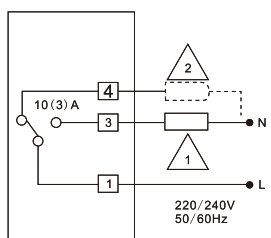
## 技术参数 Technical Data

- 应用: 适用于中央空调
- 温度控制范围: 10°C~30°C
- 工作电压: 220V~/50Hz
- 最大负载: 10A
- Application: control of central air conditioner or heating
- Temperature control range: 10°C~30°C
- Work voltage :220V~/50Hz
- Max load :10A
- SENSOR type: gas filled sylphon
- With on/off switch ,without LED indicator for power

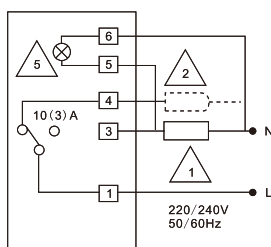
## 房间温度控制器 Room Temperature Controller

应用于水暖（地暖）采暖系统，可用于商业楼，住宅楼，轻工大厦等直接采用电加热系统的地方。

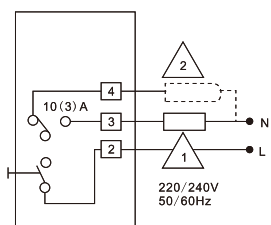
For the control of warm-water(floor)heating systems and direct electric heating systems used in Commercial buildings, Residential buildings, Light in dustrial buildings...



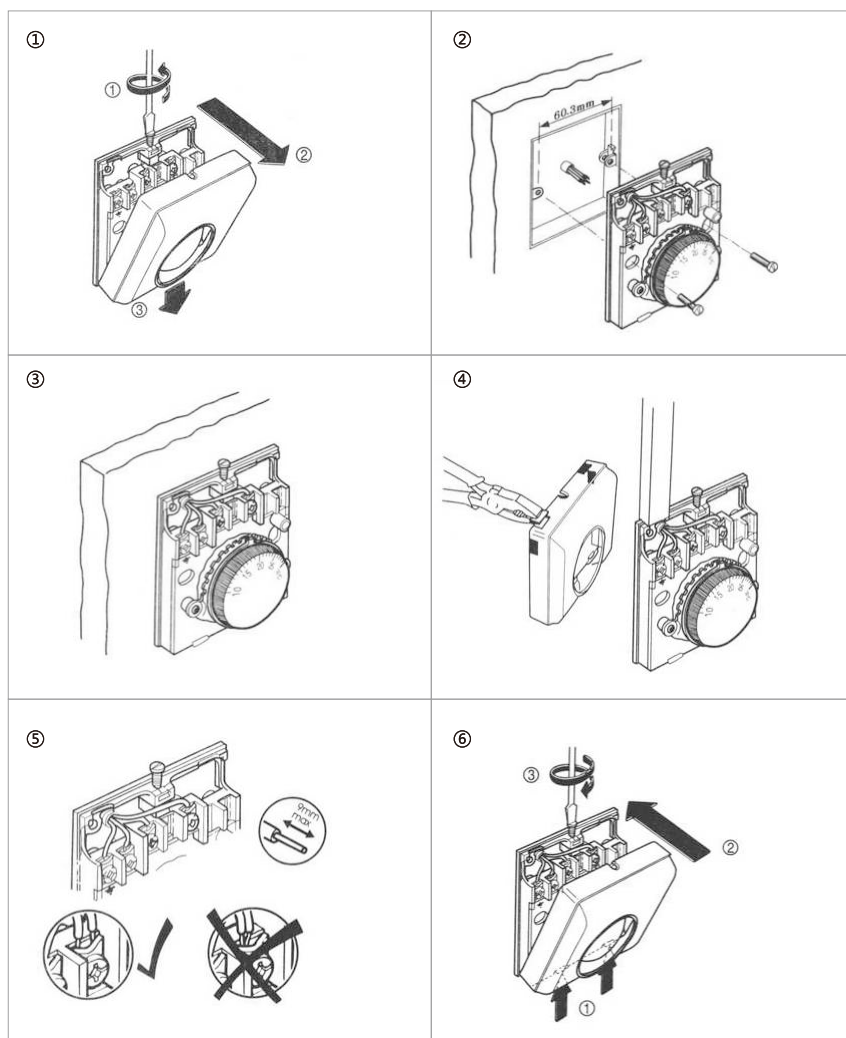
A



B



C





### SP-6000

#### 概述 Overview



SP-6000

该RTC70.xx用于两位控制带开关输出的室内温度控制，其依靠一个放置在恒温器外部或内部的NTC传感器来控制。温控器使用其内置传感器或地板传感器获取室温，当室内温度降至设定点以下，加热器将开始工作。

The RTC70.xx is used for 2-position control with on/off output for the control the temperature by means of an NTC sensor placed externally or internally in the thermostat. the thermostat acquires the room temperature with its built-in sensor or floor sensor, and the heating contact will close when the room temperature falls below the selected setpoint.

#### 应用 Application

应用于水暖（地暖）采暖系统，可用于商业楼，住宅楼，轻工大厦等直接采用电加热系统的地方。

For the control of warm-water(floor)heating systems and direct electric heating systems used in Commercial buildings,Residential buildings, Light in dustrial buildings...

#### 功能特性 Afeatures

当手动打开加热开关后，LED指示灯亮。旋钮是为了方便控制加热装置输出的开与关。

LED in dicator is light when heating is onwith manual switch and knob for easy operation On/off control output for heating device

#### 技术参数 Technical Data

电压：AC230V

电流：16A

功耗：5W

温控范围：4°C ~ 45°C

温度开关偏差：±0.5K

环境温差：-5°C ~ 50°C

外壳防护：IP20

外壳材质：热塑性橡胶，NTC探头

外置传感器：线长度为3米

Voltage: AC230V

Output relay: 16A

Power consumption: 5W

Setting range: 4°C ~ 45°C

Switching differential: ±0.5K

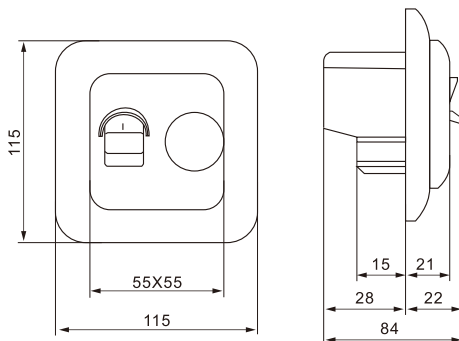
Ambient temperature: -5°C ~ 50°C

Protective housing: IP20

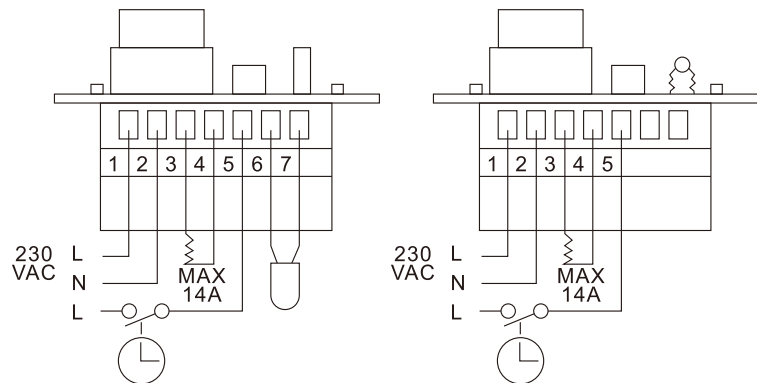
Housing material: self-exting uishing PC

Floor sensor: rubber-thermoplastic NTC sensor

Cable length is 3m



Mechanical Thermostat  
SP-6000



接线示意图 Example of connection

## SP7000

## 产品特性 Features

## ■ 房间温控器使用说明 Use Instructions Room Thermostat

双金属房间温控器主要用于控制加热和中央空调，断路触点的分段能力具有电子式和机械式特点，10A,250V A.C(电阻负载)，误差值:0.5K

Bimetallic room thermostat for heating and air-conditioning installations Thermal, electrical and mechanical features Breaking capacity on opening contact,10A-250V A.C.(ohmic load) Differential: 0.5K

## ■ 温度范围调控 Temperature's Scale Adjustment

经过近2天的安装，获得了精确的刻度调整，测量房间的温度，用一个参考温度计，放在一边温控器，持密粗面部分的旋钮，把指标用硬币，为了达到同一个值的温度计，我们建议安装设备从地板 about1.5mt和远离热源。

After almost two days from the installation,to obtain a precise scale adjustment, measure the room temperature with a reference thermometer, placed aside the thermostat, holding the shagreened part of the knob, turn the index with a coin, to reach the same value of the thermometer,We suggest to install the equipment at about1.5mt from the floor and far from any heat source.

## ■ 零部件 Pattern

①底座Base

②盖子Cover

③上盖螺丝Cover screw

④锁销，用于固定Knob Lockpins, The lock pins for scale limitation

⑤调节盘，位于固定孔的位置，与温控器底座分隔开。

are to be derached from the base of the thermostat.They are Located on the fixing holes.

⑥刻度盘，房间温控器可以直接用螺丝安装在墙面上。

Index:The fixing of the room thermostat can be done directly on the wall by screws and nags.

B1-常闭触点

B1-With N.C.contact.

B2-常闭触点和开关

B2-With N.C.contact and ON-OFF switch

B3-单刀双掷（转换开关）

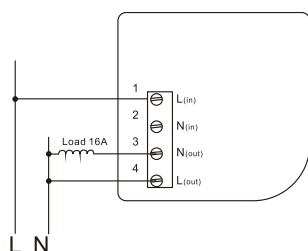
B3-With SPDT contact(change-over)

B4-转换开关（单刀双掷）和开关

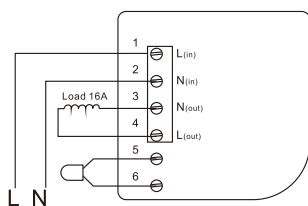
B4-With change-over contact(SPDT)and ON-OFF switch

B7-冬常闭，夏常开，以及夏冬双选开关

B7-With normally closed contact on "Winter" and normally opencontact on "Summer" plus "Summer-Winter" selector-switch



SP7000A Wiring



SP7000B Wiring

## 注意事项 Important

①交流电源超过220V-250V时，电阻会增大。

Accelerating resistance with voltage to 220-250V a.c.

②温控器设置有加速阻力，必须完全连接好，确保温控器的正常运转。

This thermostat is provided with an accelerating resistance which mustbe absolutely connected in order to obtain the regulation's performances.

③4端口必须按照外壳图示所示，连接到空挡位置。

The terminal 4has thus to be connected to the neutral according to the diagram shown on the cover.

④该接线方式下，指示灯指示温控器的加热操作。

This connection allows also the working of the pilot lamp which indicates the operation of the heating.

### SM 010 24VDC +48VDC

#### 产品特性 Features

- 高直流分断能力 High DC switching capacity
- 应用广泛 Variety of applications
- 紧凑型设计 Compact design
- 接线简便 Simple connection
- 导轨安装 DIN rail mounted

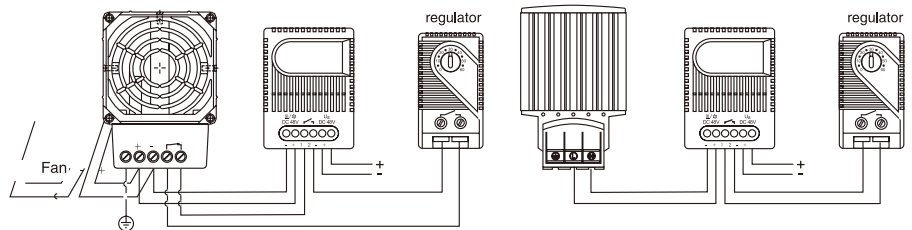
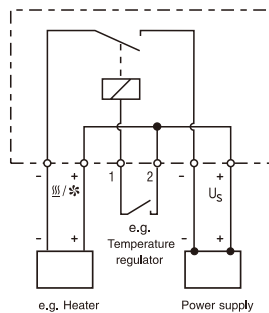
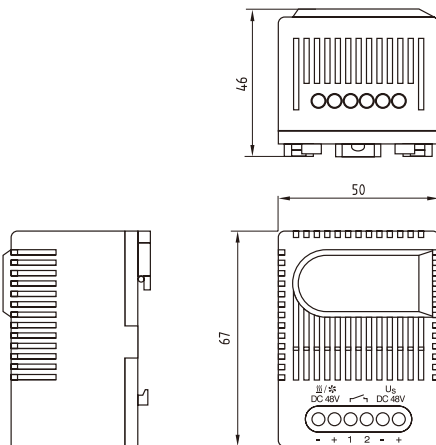
该直流电子式继电器具有较高的直流分断能力，有24VDC和48VDC两种电压可选。

Electronic relay for switching DC appliances with high switching capacity. A separate conventional switch contact is used as controller (e.g. temperature regulator, humidity regulator). The electronic relay is available in 24VDC and 48VDC versions.



#### 技术参数 Technical Data

|                                       |                                                                                                           |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 触点类型 Contact type                     | 接触开关, 常开 contact maker, normally open (Relay/MOSFET)                                                      |
| 触点电阻 Contact resistance               | < 10mΩ                                                                                                    |
| 使用寿命 Service life                     | > 100,000 cycles                                                                                          |
| EMC                                   | acc. to EN 55014-1-2, EN 61000-3-2, EN 61000-3-3                                                          |
| 接线方式 Connection                       | 6极端子, 2.5mm <sup>2</sup> 导线<br>6-pole terminal, clamping torque 0.5Nm max.: rigid wire 2.5mm <sup>2</sup> |
| 安装方式 Mounting                         | 35mm DIN轨道<br>clip for 35mm DIN rail, EN60715 or for exit filter EF 118 Series                            |
| 外壳材料 Casing                           | 塑料 UL94标准 V-0 防火等级, plastic according to UL94 V-0, light grey                                             |
| □□□□ Dimensions                       | 67 x 50 x 46mm                                                                                            |
| 重量 Weight                             | approx. 85g                                                                                               |
| 安装位置 Installation position            | 任意 variable                                                                                               |
| 操作/储存温度 Operating/Storage temperature | -20 to +80°C (-4 to +176°F) / -45 to +80°C (-49 to +176°F)                                                |
| 防护等级 Protection type                  | IP20                                                                                                      |



接线示意图 Example of connection

| 订货代码<br>Art. No. | 工作电压<br>Operating voltage | 最大开关容量<br>Max. Switching capacity |
|------------------|---------------------------|-----------------------------------|
| 01001.0-00       | 24VDC (20-28VDC)          | 28VDC 16A                         |
| 01000.0-00       | 48VDC (38-56VDC)          | 56VDC 16A                         |