

# HYGROSTAT



**PT. KORTECH ANUGERAH INDONESIA**

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# HYGROSTAT

## HYGROSTAT

HYGROSTAT



**RUN**  
**Made in Korea**

**Model : RDM-200**  
**for Humidity Control**

**Model : RDM-300**  
**for Humidity +**  
**Temperature Control**

**Model : RHC-90**  
**for Humidity Control**

**Model : RD-100**  
**for Temperature Control**

**Model : RD-200**  
**for Humidity Control**

**Model : RD-300**  
**for Humidity +**  
**Temperature Control**

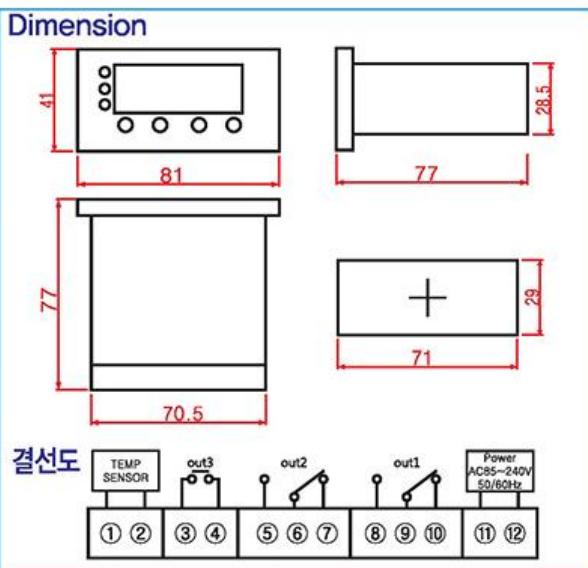


**STEGO**  
**Made in Germany**

**Model : ETF-012**

# HYGROSTAT

## RDM-200 & 300



### 특징 (Characteristic)

1. 히타 or 냉동 제어
2. 가습 or 제습 제어

| MODEL   | 가로<br>Width | 세로<br>Length | 높이<br>Height | 고정홀<br>Attachment<br>hole | 보관온도<br>Custody temp | 중량<br>Weight | 재질<br>Case materials                     | 단자볼트<br>Terminal bolt | 압착단자<br>Terminal lug | 입력전원<br>Input Voltage    | 온도범위<br>Temp Range       | 비고<br>Note     |
|---------|-------------|--------------|--------------|---------------------------|----------------------|--------------|------------------------------------------|-----------------------|----------------------|--------------------------|--------------------------|----------------|
| RDM-200 | 81          | 41           | 47           | 71×29                     | -20~90℃              | 152g         | PC(Polycarbonate)<br>UL-94 V-2<br>난연성 재질 | M3                    | 1.5핀단자               | AC/DC110~240V<br>50/60Hz | -50℃ ~ 100℃              | 센서 일체형<br>(2m) |
| RDM-300 | 81          | 41           | 47           | 71×29                     | -20~90℃              | 152g         | PC(Polycarbonate)<br>UL-94 V-2<br>난연성 재질 | M3                    | 1.5핀단자               | AC/DC110~240V<br>50/60Hz | -50℃ ~ 100℃<br>20% ~ 99% | 센서 일체형<br>(2m) |

## HYGROSTAT from Korea

**RDM-200 :**

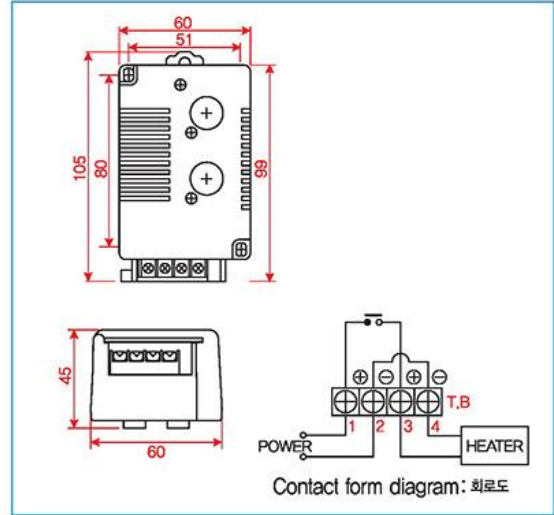
- 1) 2 Meter External Sensor
- 2) For Humidity Control
- 3) Installed on Panel Door

**RDM-300 :**

- 1) 2 Meter External Sensor
- 2) For Humidity + Temperature Control
- 3) Installed on Panel Door

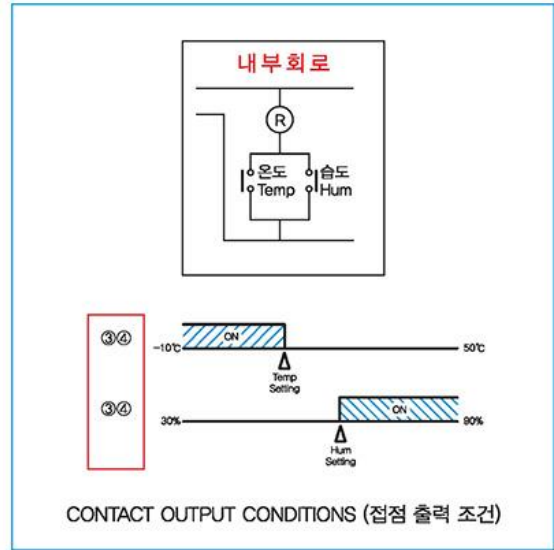
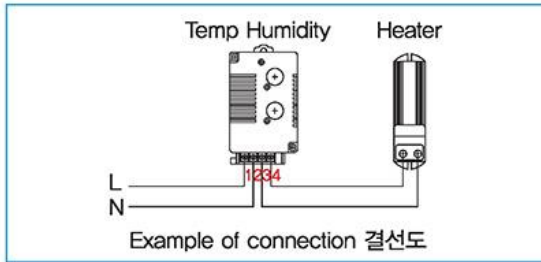
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RHC-90 : Internal Sensor. Install Inside Panel.



## 특징 (Characteristic)

1. 입력 전원 표시 램프, 출력 동작 표시 램프 장착  
It has input power lamp and output operation indicated lamp.
2. ③ ④ 단자 전원출력(회로도 참조)
3. 배전반 패널 내부 제어용  
Use to only auto control panel in the switch box.



| MODEL                  | 가로<br>Width                 | 세로<br>Length              | 높이<br>Height | 고정홀<br>Attachment hole                   | 입력전압<br>Input voltage     | 출력전압<br>Output voltage  | 전류<br>Rating current   | 온도습도범위<br>Temp,Hum range | 온도습도편차<br>Temp,Hum set error | 제어편차<br>Temp,Hum hysteresis | 비고<br>Note |
|------------------------|-----------------------------|---------------------------|--------------|------------------------------------------|---------------------------|-------------------------|------------------------|--------------------------|------------------------------|-----------------------------|------------|
| RHC-90                 | 60                          | 105                       | 45           | 51 X 80 or 35mm DIN rail                 | AC/DC110~240V<br>50/60 Hz | AC/DC110~240V           | AC250V,5A<br>DC250V,2A | -10~50℃<br>30~90%        | ±3℃<br>±7%RH                 | 3℃<br>3%RH                  |            |
|                        |                             |                           |              |                                          |                           |                         |                        |                          |                              |                             |            |
| 사용주위온도<br>Ambient temp | 사용주위습도<br>Relative humidity | 사용전력<br>Power Consumption | 중량<br>Weight | 재질<br>Case materials                     | 단자볼트<br>Terminal bolt     | 고정볼트<br>Attachment bolt | 압착단자<br>Terminal lug   | 인증<br>Certification      |                              |                             |            |
| 10~60℃                 | 30~80% RH                   | 2VA                       | 116g         | PC(Polycarbonate)<br>UL-94 V-2<br>난연성 재질 | M3×6                      | M4×10                   | 1.5-3Y                 | CE, RoHS                 |                              |                             |            |

※ 배전반 자동제어 패널 내부 제어용으로만 사용하세요.

Use to only auto control panel in the switch box.

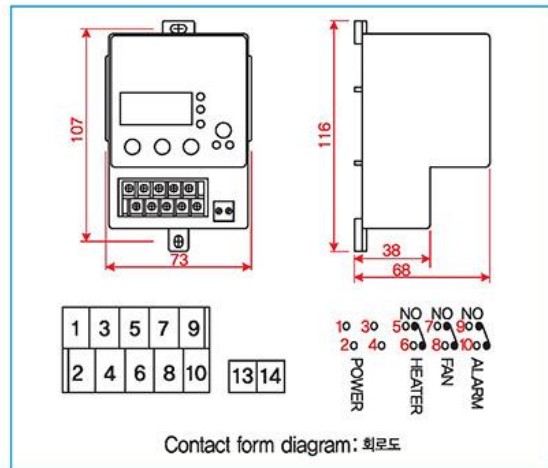
※ 중대한 주변기기의 손상 및 막대한 재산 피해가 우려되는 기기등에 사용할 경우에는 이중으로 안전장치를 부착하여 사용하세요.

In case of using for machinery concerning injury and tremendous property damage of heavy, peripheral accessories attach & use safety device over again.



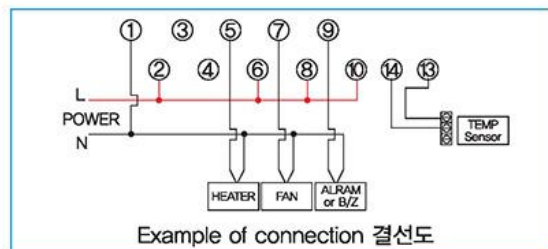
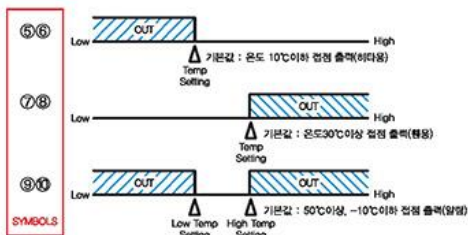
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RD-100/100L : With External Sensor. Install Inside Panel.



## 특징 (Characteristic)

- 배전반 패널 내부 제어용 Use to only auto control panel in the switch box.



| ITEM                                    | PERFORMANCE                       | SYMBOLS |
|-----------------------------------------|-----------------------------------|---------|
| 입력 전원 (Input Voltage)                   | AC/DC110V~240V 50Hz~60Hz          | ① ②     |
| 제어 출력 (Control Output)                  | AC250V 5A Relay 1C (Heater)       | ⑤ ⑥     |
| 제어 출력 (Control Output)                  | AC250V 5A Relay 1C (FAN)          | ⑦ ⑧     |
| 제어 출력 (Control Output)                  | AC250V 5A Relay 1C (ALARM)        | ⑨ ⑩     |
| 온도 센서 (Temp Sensor)                     | PT 100Q                           | ⑬ ⑭     |
| 온도 범위 (Range for Temp & Humidity Range) | -40°C ~ 100°C                     |         |
| 표시방식 (Setting Method)                   | 7 Segment LED Display             |         |
| 제어방식 (Control Method)                   | ON/OFF Control (Contact Relay)    |         |
| 사용 주위 온도 (Ambient Temp)                 | -10°C ~ 80°C (단, 결빙되지 않은 상태)      |         |
| 사용 주위 습도 (Ambient Humidity)             | 35%RH ~ 85%RH (단, 10°C~40°C내서 사용) |         |
| 온도 편차 (Tolerance Temp)                  | ±1°C                              |         |
| 사용전력 (Power Consumption)                | 3VA                               |         |

| MODEL   | 가로 Width | 세로 Length | 높이 Height | 고정홀 Attachment hole  | 보관온도 Custody temp | 중량 Weight | 재질 Case materials | 단자볼트 Terminal bolt | 고정볼트 Attachment bolt | 압착단자 Termianl lug  | 인증 Certification | 비고 Note          |
|---------|----------|-----------|-----------|----------------------|-------------------|-----------|-------------------|--------------------|----------------------|--------------------|------------------|------------------|
| RD-100  | 73       | 116       | 68        | 107 or 35mm DIN rail | -20~90°C          | 192g      | ABS               | M3×6               | M4×10                | 1.5-3Y PIN 1.5(센서) | CE               | 센서 일체형           |
| RD-100L | 73       | 116       | 68        | 107 or 35mm DIN rail | -20~90°C          | 240g      | ABS               | M3×6               | M4×10                | 1.5-3Y PIN 1.5(센서) | CE               | 센서 별도 부착 RSS-100 |

※ 배전반 자동제어 패널 내부 제어용으로만 사용하세요.

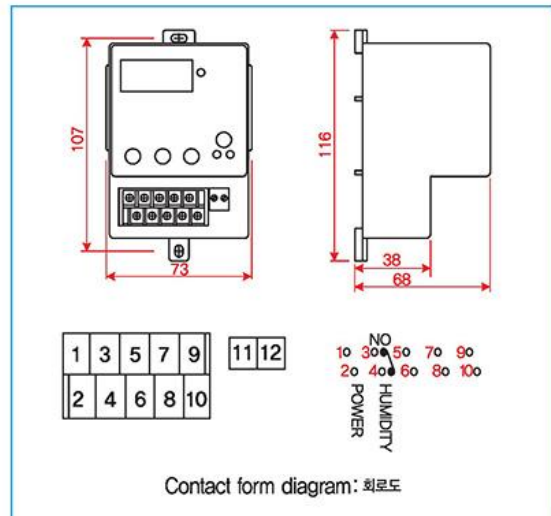
Use to only auto control panel in the switch box.

※ 중대한 주변기기의 손상 및 막대한 재산 피해가 우려되는 기기등에 사용할 경우에는 이중으로 안전장치를 부착하여 사용하세요.

In case of using for machinery concerning injury and tremendous prpoerty damage of heavy, peripheral accessories attach & use safety device over again.

# HYGROSTAT

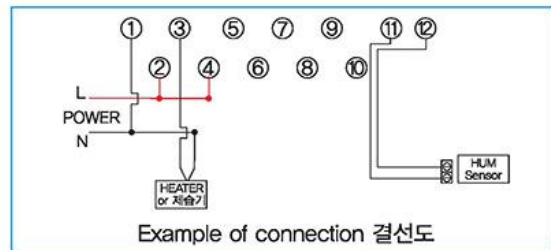
RD-200/200L : With External Sensor. Install Inside Panel.



## 특징 (Characteristic)

### 1. 배전반 판넬 내부 제어용

Use to only auto control panel in the switch box.



| ITEM                                    | PERFORMANCE                     | SYMBOLS |
|-----------------------------------------|---------------------------------|---------|
| 입력 전원 (Input Voltage)                   | AC/DC110V~240V 50Hz~60Hz        | ① ②     |
| 제어 출력 (Control Output)                  | AC250V 5A Relay 1C (Humidity)   | ③ ④     |
| 습도 센서 (Humidity Sensor)                 | Polymer Relative                | ⑪ ⑫     |
| 습도 범위 (Range for Temp & Humidity Range) | 20%RH ~ 99%RH                   |         |
| 표시방식 (Setting Method)                   | 7 Segment LED Display           |         |
| 제어방식 (Control Method)                   | ON/OFF Control (Contact Relay)  |         |
| 사용 주위 온도 (Ambient Temp)                 | -10℃ ~ 80℃ (단, 결빙되지 않은 상태)      |         |
| 사용 주위 습도 (Ambient Humidity)             | 35%RH ~ 85%RH (단, 10℃~40℃내서 사용) |         |
| 습도 편차 (Tolerance Humidity)              | ±5%RH                           |         |
| 사용전력 (Power Consumption)                | 3VA                             |         |

| MODEL   | 가로<br>Width | 세로<br>Length | 높이<br>Height | 고정홀<br>Attachment<br>hole | 보관온도<br>Custody temp | 중량<br>Weight | 재질<br>Case<br>materials | 단자볼트<br>Terminal bolt | 고정볼트<br>Attachment bolt | 압착단자<br>Terminal lug  | 인증<br>Certification | 비고<br>Note          |
|---------|-------------|--------------|--------------|---------------------------|----------------------|--------------|-------------------------|-----------------------|-------------------------|-----------------------|---------------------|---------------------|
| RD-200  | 73          | 116          | 68           | 107<br>or 35mm DIN rail   | -20~90℃              | 190g         | ABS                     | M3×6                  | M4×10                   | 1.5-3Y<br>PIN 1.5(센서) | CE                  | 센서 일체형              |
| RD-200L | 73          | 116          | 68           | 107<br>or 35mm DIN rail   | -20~90℃              | 235g         | ABS                     | M3×6                  | M4×10                   | 1.5-3Y<br>PIN 1.5(센서) | CE                  | 센서 별도 부착<br>RSS-200 |

※ 배전반 자동제어 판넬 내부 제어용으로만 사용하세요.

Use to only auto control panel in the switch box.

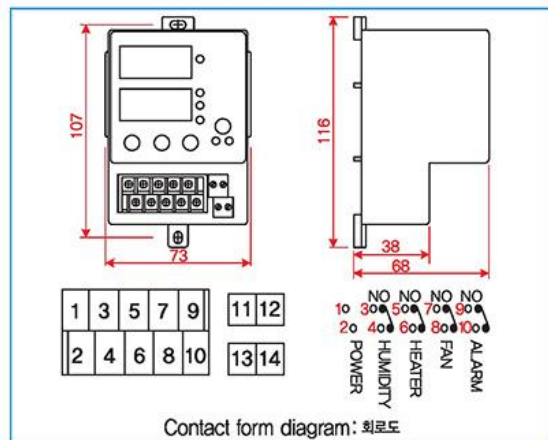
※ 중대한 주변기기의 손상 및 막대한 재산 피해가 우려되는 기기등에 사용할 경우에는 이중으로 안전장치를 부착하여 사용하세요.

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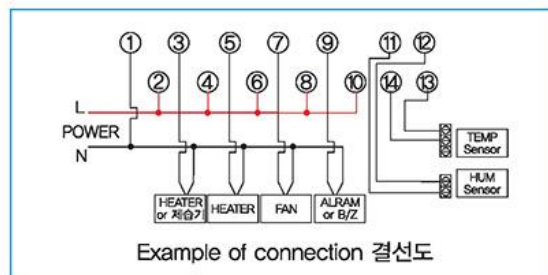
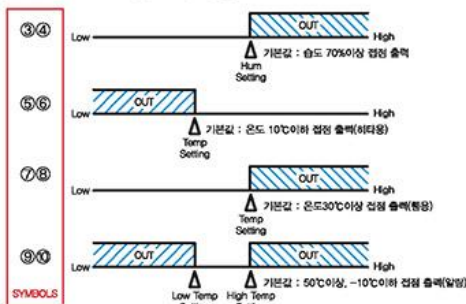
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RD-300/300L : With External Sensor. Install Inside Panel.



## 특징 (Characteristic)

1. 배전반 패널 내부 제어용 Use to only auto control panel in the switch box.



OUTPUT OPERATION (출력접점)

| ITEM                                       | PERFORMANCE                     | SYMBOLS |
|--------------------------------------------|---------------------------------|---------|
| 입력 전원 (Input Voltage)                      | AC/DC110V~240V 50Hz~60Hz        | ① ②     |
| 제어 출력 (Control Output)                     | AC250V 5A Relay 1C (Humidity)   | ③ ④     |
| 제어 출력 (Control Output)                     | AC250V 5A Relay 1C (Heater)     | ⑤ ⑥     |
| 제어 출력 (Control Output)                     | AC250V 5A Relay 1C (FAN)        | ⑦ ⑧     |
| 제어 출력 (Control Output)                     | AC250V 5A Relay 1C (ALARM)      | ⑨ ⑩     |
| 습도 센서 (Humidity Sensor)                    | Polymer Relative                | ⑪ ⑫     |
| 온도 센서 (Temp Sensor)                        | PT 100Ω                         | ⑬ ⑭     |
| 온도·습도 범위 (Range for Temp & Humidity Range) | -40℃ ~ 100℃, 20%RH ~ 99%RH      |         |
| 표시방식 (Setting Method)                      | 7 Segment LED Display           |         |
| 제어방식 (Control Method)                      | ON/OFF Control (Contact Relay)  |         |
| 사용 주위 온도 (Ambient Temp)                    | -10℃ ~ 80℃ (단, 결빙되지 않은 상태)      |         |
| 사용 주위 습도 (Ambient Humidity)                | 35%RH ~ 85%RH (단, 10℃~40℃내서 사용) |         |
| 온도 편차 (Tolerance Temp)                     | ±1℃                             |         |
| 습도 편차 (Tolerance Humidity)                 | ±5%RH                           |         |
| 사용전력 (Power Consumption)                   | 3VA                             |         |

| MODEL   | 가로<br>Width | 세로<br>Length | 높이<br>Height | 고정홀<br>Attachment<br>hole | 보관온도<br>Custody temp | 중량<br>Weight | 재질<br>Case<br>materials | 단자볼트<br>Terminal bolt | 고정볼트<br>Attachment bolt | 압착단자<br>Terminal lug  | 인증<br>Certification | 비고<br>Note          |
|---------|-------------|--------------|--------------|---------------------------|----------------------|--------------|-------------------------|-----------------------|-------------------------|-----------------------|---------------------|---------------------|
| RD-300  | 73          | 116          | 68           | 107<br>or 35mm DIN rail   | -20~90℃              | 200g         | ABS                     | M3×6                  | M4×10                   | 1.5~3Y<br>PIN 1.5(센서) | CE                  | 센서 일체형              |
| RD-300L | 73          | 116          | 68           | 107<br>or 35mm DIN rail   | -20~90℃              | 250g         | ABS                     | M3×6                  | M4×10                   | 1.5~3Y<br>PIN 1.5(센서) | CE                  | 센서 별도 부착<br>RSS-300 |

※ 배전반 자동제어 패널 내부 제어용으로만 사용하세요.

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※ 중대한 주변기기의 손상 및 막대한 재산 피해가 우려되는 기기등에 사용할 경우에는 이중으로 안전장치를 부착하여 사용하세요.

In case of using for machinery concerning injury and tremendous property damage of heavy, peripheral accessories attach & use safety device over again.

# HYGROSTAT

## ETF-012 from Germany



- > Efficient temperature & humidity control
- > Wide voltage range

- > Operating temperature down to -40 °C
- > High switching capacity
- > With external sensor

The ETF 012 senses the ambient temperature and relative humidity in an enclosure. Depending on which contact combination is chosen, it then turns on or off a connected device if either the temperature is below or the humidity is above the set point. The integrated LED in each adjustment knob i lit when indicating the active function. The external sensor can be positioned freely anywhere in the enclosure for precise measurements.

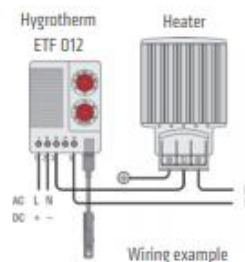
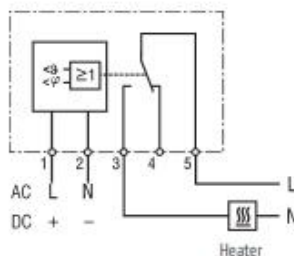
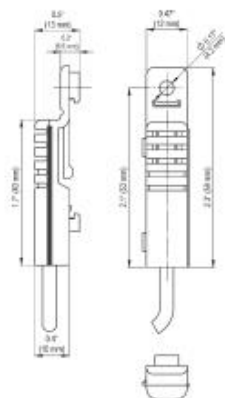
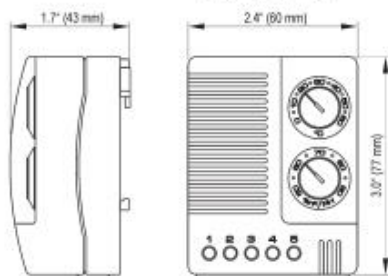


### TECHNICAL DATA

|                                        |                                                                                                                        |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Switching difference (temperature)     | 2 K ( $\pm 1$ K tolerance) at +25 °C (+77 °F), 50 %RH                                                                  |
| Switching difference (humidity)        | 4 %RH ( $\pm 1$ % tolerance) at +25 °C (+77 °F), 50 %RH                                                                |
| Reaction time (humidity)               | approx. 5 sec.                                                                                                         |
| Contact type                           | change-over contact (relay)                                                                                            |
| Service life                           | VDE: NO/NC > 15,000 cycles<br>UL: NO/NC > 30,000 cycles                                                                |
| Max. switching capacity (relay output) | 10 A resistive / 1.5 A inductive @ AC 240 V<br>0.6 A @ DC 60 V <sup>1</sup>                                            |
| Max. inrush current                    | AC 30 A for 10 sec.                                                                                                    |
| Connection                             | 5-pole terminal, clamping torque 0.5 Nm max.:<br>solid/stranded <sup>2</sup> wire - AWG 14 max. (2.5 mm <sup>2</sup> ) |
| Housing                                | plastic, UL 94V-0, light grey                                                                                          |
| Mounting                               | clip for 35 mm DIN rail, EN 60715                                                                                      |
| Mounting position                      | vertical                                                                                                               |
| Operating/Storage temperature          | -40 to +140 °F (-40 to +60 °C)                                                                                         |
| Operating/Storage humidity             | max. 95 %RH (non-condensing)                                                                                           |
| Dimensions                             | 3.0 x 2.4 x 1.7" (77 x 60 x 43 mm)                                                                                     |
| Weight                                 | approx. 3.5 oz. (100 g)                                                                                                |
| Protection type                        | IP20                                                                                                                   |
| Approvals                              | UL File No. E164102, VDE, GOST-R                                                                                       |

<sup>1</sup> not UL confirmed

<sup>2</sup> When connecting with stranded wires, wire end ferrules must be used.



| Part No. Cable - 1 m | Part no. Cable - 2 m | Operating voltage                                    | Setting range - temperature | Setting range - humidity |
|----------------------|----------------------|------------------------------------------------------|-----------------------------|--------------------------|
| 01231.0-00           | 01231.0-01           | AC 100-240 V, 50/60 Hz (min. AC 90 V, max. AC 265 V) | 0 to +60 °C                 | 50 to 90 %RH             |
| 01231.9-00           | 01231.9-01           | AC 100-240 V, 50/60 Hz (min. AC 90 V, max. AC 265 V) | +32 to +140 °F              | 50 to 90 %RH             |
| 01231.1-00           | 01231.1-01           | DC 24-48 V (min. DC 20 V, max. DC 60 V)              | 0 to +60 °C                 | 50 to 90 %RH             |