

Product datasheet

Specifications



temperature control relay RTC -
48x48 mm - 100..240 V AC - 1 SSR,
comm, alarm

RTC48PUNCSNHU

⚠ Discontinued on: 4 Jul 2022

⚠ Discontinued

Main

| | |
|------------------------------|--|
| Range of product | Zelio Control |
| Product or component type | Modular measurement and control relays |
| Relay type | Temperature control relays |
| Product specific application | Packaging Heating or cooling Industrial machines HVAC |
| Relay name | RTC |

Complementary

| | |
|-----------------------------|--|
| Outer dimension | 48 x 48 mm 1/16 DIN |
| Analogue input type | Thermocouple (thermocouple J, K, R, B, S, T, E, N, PLII, C(W/Re5-26)) Temperature probe (temperature probe: Pt 100, JPt 100) Voltage 0...1 V DC Voltage 0...5 V DC Voltage 1...5 V DC Voltage 0...10 V DC Current 0...20 mA Current 4...20 mA |
| [Us] rated supply voltage | 100...240 V AC |
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| Supply voltage limits | 85...264 V |
| Measurement accuracy | 0.2 % full scale |
| Sampling duration | 250 ms |
| Number of outputs | 1 solid state output for output 1 |
| Output type | Solid state output at 12 V DC / 40 mA |
| Alarm output | 1 C/O |
| Power consumption in VA | 8 VA at 250 V AC |
| Communication port protocol | Modbus RTU and ASCII |
| Method of access | Slave |
| Transmission frame | RTU/ASCII |
| Physical interface | RS485 non isolated |
| Exchange mode | Half duplex |
| Transmission rate | 9600, 19200 kbit/s |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---------------------|--|
| Function available | Auto tuning PID |
| marking | CE |
| Operating position | Any position |
| Display type | 11 segments LCD |
| Display digits | 5 |
| Signalling function | Process value green, orange and red Output status (OUT1, OUT2) orange Alarm status (EV1, EV2) orange Transmission/reception activity (TX/TR) orange Setpoint value green |
| mounting support | Panel |
| Net weight | 120 g |

Environment

| | |
|---------------------------------------|--|
| Standards | EN 61326-1 CSA C22.2 No 24-93 EN 61010-1 |
| product certifications | cURus (873) |
| Ambient air temperature for storage | -25...80 °C |
| Ambient air temperature for operation | 0...50 °C |
| Relative humidity | 35...85 % without condensation |
| Vibration resistance | 1 gn (f= 10...55 Hz) conforming to IEC 60068-2-6 |
| Shock resistance | 10 gn conforming to IEC 60068-2-27 |
| IP degree of protection | IP66 (front face) conforming to IEC 60529 IP20 (rear) |
| NEMA degree of protection | NEMA 4X front face |

Packing Units

| | |
|------------------------------|--------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 6.1 cm |
| Package 1 Width | 6.4 cm |
| Package 1 Length | 8.7 cm |
| Package 1 Weight | 135 g |

Sustainability


Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)

Well-being performance

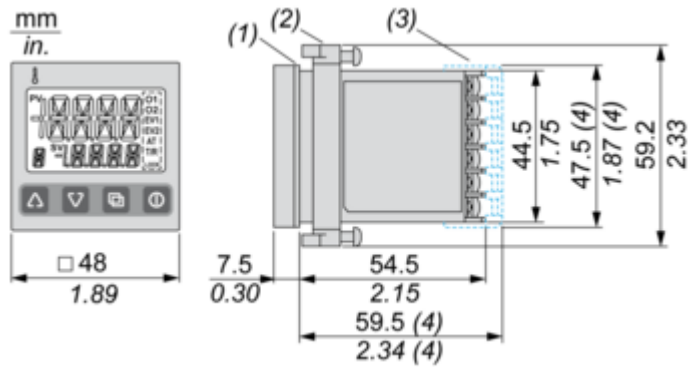
 Mercury Free

| | |
|-----------------------|---|
| Eu Rohs Directive | Not applicable, out of EU RoHS legal scope |
| China Rohs Regulation | China RoHS declaration |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

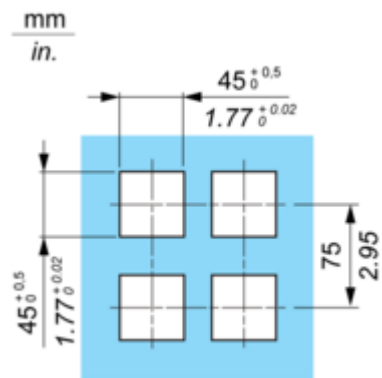
Dimensions Drawings

48 x 48 Size – 1/16 DIN Standard

Panel Mounting : Mounting Frame Supplied



- (1) Gasket
 - (2) Mounting frame
 - (3) Terminal cover, to be ordered separately.
 - (4) When Terminal cover (sold separately) is used
- Panel cut-out

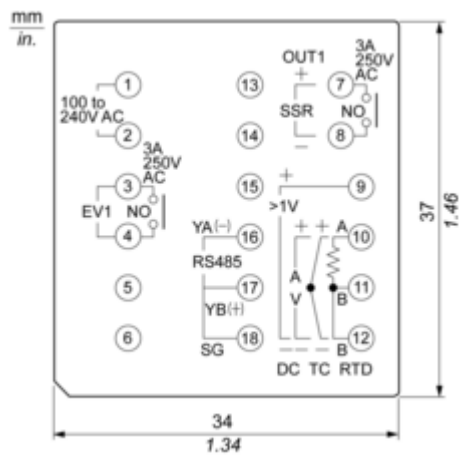


Side stick mounting: n units (water-proof property lost in this case)



Connections and Schema

Wiring Diagram



- EV : Alarm output
- OUT : Control output
- DC : DC current or DC voltage input
- TC : Thermocouple input
- RTD : Resistance temperature detector input
- RS485 : Serial communication
- SSR : Solid State relay