

Product datasheet

Specifications



temperature control relay RTC -
48x48 mm - 24V AC/DC - 1 relay,
comm, alarm

RTC48PUNCRNLU

⚠ Discontinued on: 27 Jan 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	HVAC Heating or cooling Industrial machines Packaging
Relay name	RTC

Complementary

Outer dimension	1/16 DIN 48 x 48 mm
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	24 V AC/DC
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Supply voltage limits	20...28 V
Measurement accuracy	0.2 % full scale
Sampling duration	250 ms
Number of outputs	1 relay output with NO contact for output 1
Output type	Relay output at 250 V AC / 3 A on resistive load Relay output at 250 V AC / 1 A on inductive load
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

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

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 61010-1 EN 61326-1 CSA C22.2 No 24-93
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

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Longer

Lifetime extension	
Repair	No

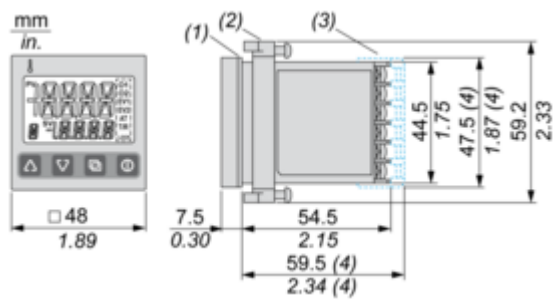
Use Again

Repack and remanufacture	
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

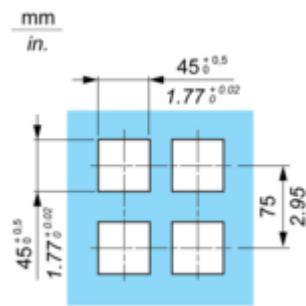
Dimensions Drawings

48 x 48 Size – 1/16 DIN Standard

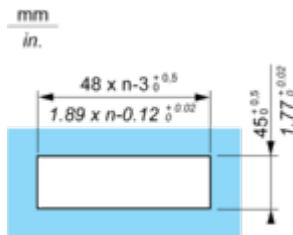
Panel Mounting : Mounting Frame Supplied



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

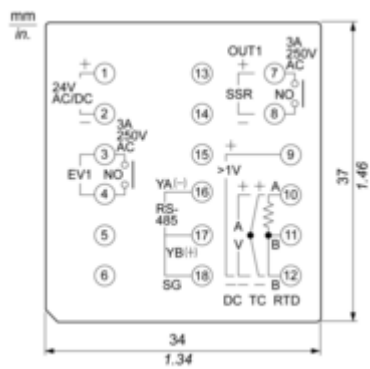


Side stick mounting: n units (water-proof property lost in this case)



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
- RS 485 : Serial communication
- SSR : Solid State relay