Product data sheet

Specifications

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

RTC48PUNCRNHU

ⓘ **Discontinued on:** Jan 27, 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 Industrial machines Heating or cooling Packaging
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 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

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	154 g

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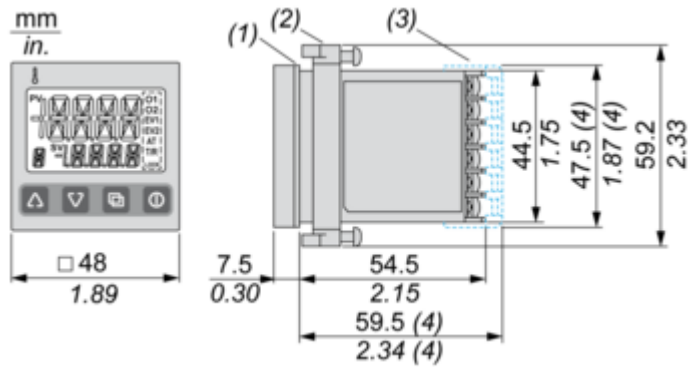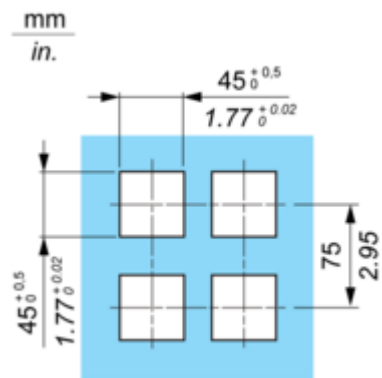|	
Eu Rohs Directive	Not applicable, out of EU RoHS legal scope
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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.
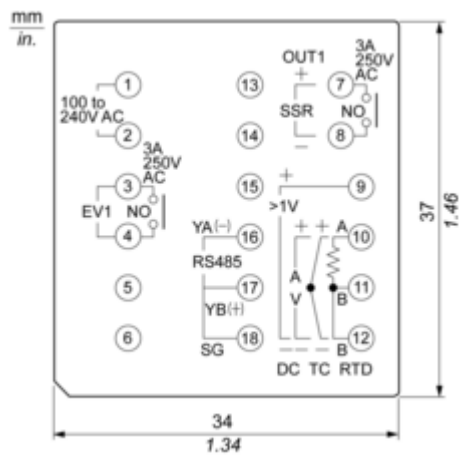**(4)** When Terminal cover (sold separately) is used
Panel cut-out

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