Product datasheet

Specifications

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

RTC48PUNCSRLU

⚠ **Discontinued on:** Jul 2, 2024

⚠ **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 2 1 solid state output 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 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

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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 CSA C22.2 No 24-93 EN 61326-1
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	156 g

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Sustainability

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Guide to assess a product's sustainability ⟩

Well-being performance

✅ Mercury Free

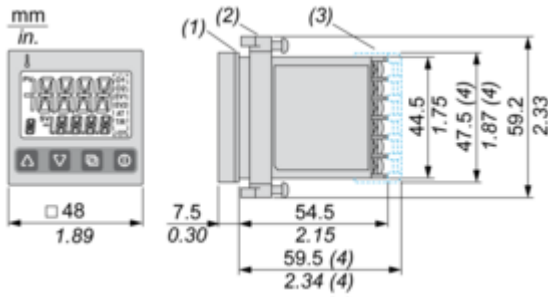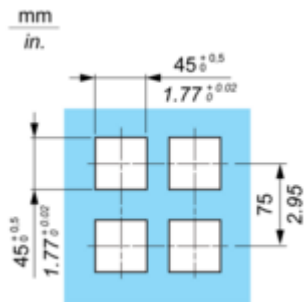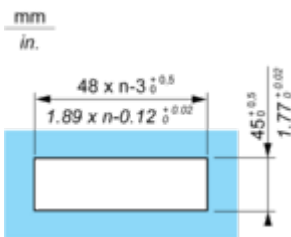|	
Eu Rohs Directive	Not applicable, out of EU RoHS legal scope
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

48 x 48 Size – 1/16 DIN Standard

Panel Mounting : Mounting Frame Supplied

Jul 16, 2024

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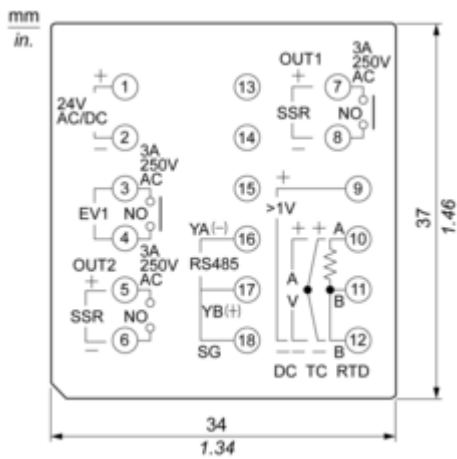**(4)** When Terminal cover (sold separately) is used

Panel cut-out

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

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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