Product data sheet

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

RTC48PUN1SNHU

ⓘ **Discontinued on:** Jan 27, 2022

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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 HVAC Industrial machines
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 probePt 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 1
Output type	Solid state 12 V DC / 40 mA
Alarm output	1 C/O
Power consumption in VA	8 VA 250 V AC
Function available	Auto tuning PID
marking	CE
Operating position	Any position
Display type	11 segments LCD
Display digits	5

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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	4.2 oz (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	-13.0000000000…176.0000000000 °F (-25…80 °C)
Ambient air temperature for operation	32…122 °F (0…50 °C)
Relative humidity	35…85 % without condensation
Vibration resistance	1 gn 10…55 Hz)IEC 60068-2-6
Shock resistance	10 gn IEC 60068-2-27
IP degree of protection	IP66 IEC 60529 front face) 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	2.4 in (6.1 cm)
Package 1 Width	2.5 in (6.4 cm)
Package 1 Length	3.4 in (8.7 cm)
Package 1 Weight	4.8 oz (135 g)

Sustainability

Green Premium^{TM} 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-CO_2 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 >

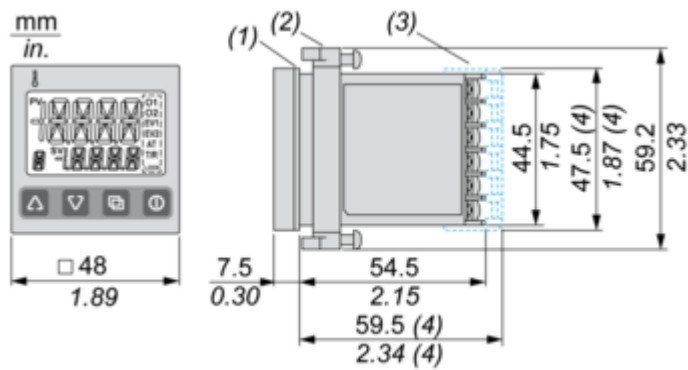Guide to assess a product's sustainability >

Well-being performance

✓ Mercury Free

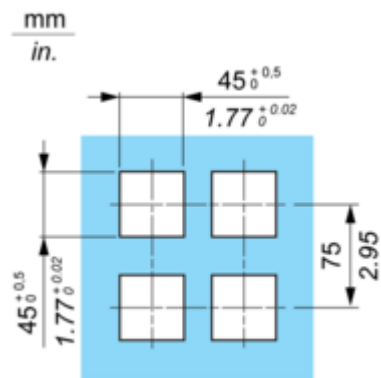|	
Eu Rohs Directive	Not applicable, out of EU RoHS legal scope
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

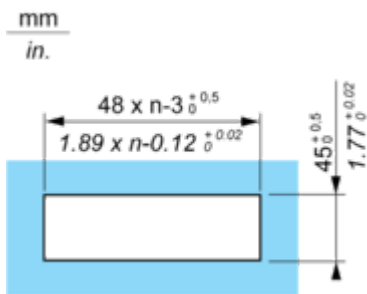Dimensions Drawings

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
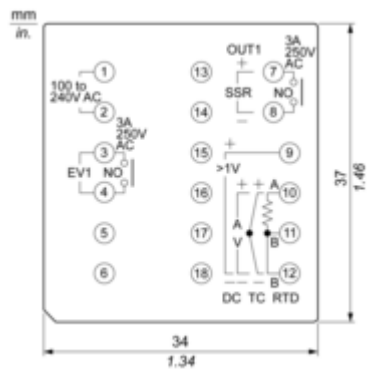Panel cut-out

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
SSR : Solid State relay