



## Main

|                              |                                                                |
|------------------------------|----------------------------------------------------------------|
| Range of Product             | Zelio Control                                                  |
| Product or Component Type    | Modular measurement and control relays                         |
| Relay Type                   | Temperature control relays                                     |
| Product Specific Application | HVAC<br>Heating or cooling<br>Industrial machines<br>Packaging |
| Relay name                   | RTC                                                            |

## Complementary

|                             |                                                                                                                                                                                                                                              |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Outer dimension             | 1/16 DIN<br>48 x 48 mm                                                                                                                                                                                                                       |
| Analogue input type         | Thermocouple thermocouple J, K, R, B, S, T, E, N, PLII, C(W/Re5-26))<br>Temperature probePt 100, JPt 100)<br>Voltage 0...1 V DC<br>Voltage 0...5 V DC<br>Voltage 1...5 V DC<br>Voltage 0...10 V DC<br>Current 0...20 mA<br>Current 4...20 mA |
| [Us] rated supply voltage   | 24 V AC/DC                                                                                                                                                                                                                                   |
| [Us] rated supply voltage   | 24 V AC/DC                                                                                                                                                                                                                                   |
| Supply voltage limits       | 20...28 V                                                                                                                                                                                                                                    |
| Measurement accuracy        | 0.2 % full scale                                                                                                                                                                                                                             |
| Sampling duration           | 250 ms                                                                                                                                                                                                                                       |
| Number of outputs           | 1 relay NO output 2<br>1 solid state output 1                                                                                                                                                                                                |
| Output type                 | Relay 250 V AC / 3 A on resistive load<br>Relay 250 V AC / 1 A on inductive load<br>Solid state 12 V DC / 40 mA                                                                                                                              |
| Alarm output                | 1 C/O                                                                                                                                                                                                                                        |
| Power consumption in VA     | 8 VA 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<br>PID                                                                                                                                                                                                                           |
| Marking                     | CE                                                                                                                                                                                                                                           |
| Operating position          | Any position                                                                                                                                                                                                                                 |
| Display Type                | 11 segments LCD                                                                                                                                                                                                                              |
| Display digits              | 5                                                                                                                                                                                                                                            |
| Signalling function         | Process value green, orange and red<br>Output status (OUT1, OUT2) Orange<br>Alarm status (EV1, EV2) Orange<br>Transmission/Reception activity (TX/TR) Orange<br>Setpoint value Green                                                         |

|                  |                 |
|------------------|-----------------|
| Mounting Support | Panel           |
| Net Weight       | 4.23 oz (120 g) |

## Environment

|                                       |                                                |
|---------------------------------------|------------------------------------------------|
| Standards                             | EN 61010-1<br>CSA C22.2 No 24-93<br>EN 61326-1 |
| Product Certifications                | CURus (873)                                    |
| Ambient Air Temperature for Storage   | -13...176 °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)<br>IP20 rear)       |
| NEMA degree of protection             | NEMA 4X front face                             |

## Ordering and shipping details

|                       |                                        |
|-----------------------|----------------------------------------|
| Category              | 22380 - RELAYS-MEASUREMENT (RM17-RM35) |
| Discount Schedule     | CP2                                    |
| GTIN                  | 3606480598593                          |
| Nbr. of units in pkg. | 1                                      |
| Package weight(Lbs)   | 5.50 oz (156 g)                        |
| Returnability         | No                                     |
| Country of origin     | JP                                     |

## Packing Units

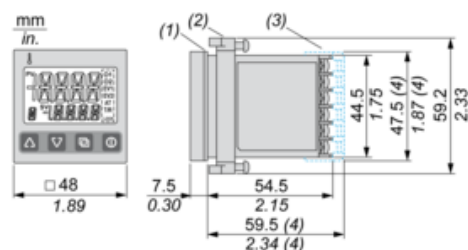
|                        |                  |
|------------------------|------------------|
| Unit Type of Package 1 | PCE              |
| Package 1 Height       | 2.40 in (6.1 cm) |
| Package 1 width        | 2.52 in (6.4 cm) |
| Package 1 Length       | 3.43 in (8.7 cm) |

## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                           |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                              |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                                                                                                                                                                                                                      |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                               |
| Circularity Profile        | <a href="#">End Of Life Information</a>                                                                                                                                                                                                                                                     |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.                                                                                                                                                                |

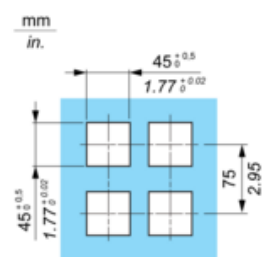
## 48 x 48 Size – 1/16 DIN Standard

### Panel Mounting : Mounting Frame Supplied

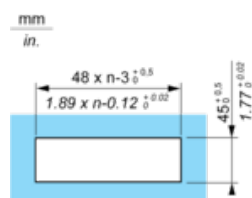


- (1) Gasket
- (2) Mounting frame
- (3) Terminal cover, to be ordered separately.
- (4) When Terminal cover (sold separately) is used

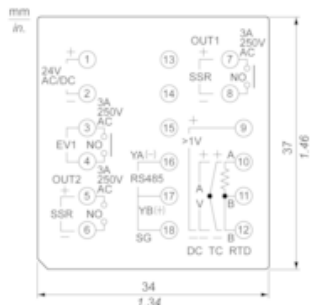
### Panel cut-out



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



## 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

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Schneider Electric:](#)

[RTC48PUNCSRLU](#)