



## Main

|                              |                                                                |
|------------------------------|----------------------------------------------------------------|
| Range of product             | Zelio Control                                                  |
| Product or component type    | Modular measurement and control relays                         |
| Relay type                   | Temperature control relays                                     |
| Product specific application | Industrial machines<br>HVAC<br>Heating or cooling<br>Packaging |
| Relay name                   | RTC                                                            |

## Complementary

|                             |                                                                                                                                                                                                                                               |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Outer dimension             | 48 x 48 mm<br>1/16 DIN                                                                                                                                                                                                                        |
| Analogue input type         | Thermocouple thermocouple J, K, R, B, S, T, E, N, PLII, C(W/Re5-26))<br>Temperature probe Pt 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 1<br>1 relay NO output 2                                                                                                                                                                                                    |
| Output type                 | Relay 250 V AC / 3 A on resistive load<br>Relay 250 V AC / 1 A on inductive load                                                                                                                                                              |
| 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  | PID<br>Auto tuning                                                                                                                                                                   |
| 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 61326-1<br>CSA C22.2 No 24-93<br>EN 61010-1 |
| 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                             |

## Packing Units

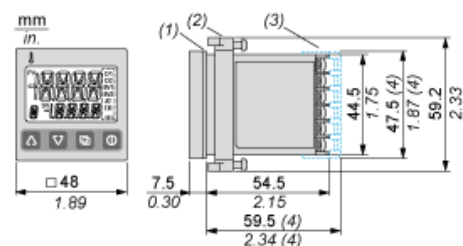
|                  |                     |
|------------------|---------------------|
| Package 1 Weight | 5.64 oz (160.000 g) |
| Package 1 Height | 2.40 in (61.000 mm) |
| Package 1 width  | 2.52 in (64.000 mm) |
| Package 1 Length | 3.43 in (87.000 mm) |

## Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                           |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><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 |

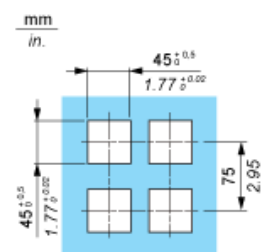
## 48 x 48 Size – 1/16 DIN Standard

### Panel Mounting : Mounting Frame Supplied

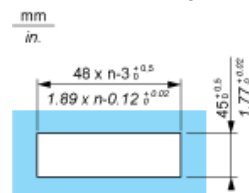


- (1) Gasket
- (2) Mounting frame
- (3) Terminal cover, to be ordered separately.
- (4) When Terminal cover (sold separately) is used

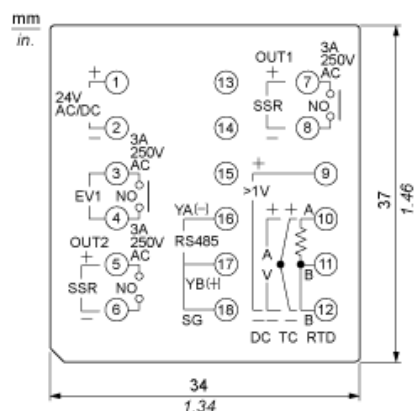
### Panel cut-out



### 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