

Product availability: Non-Stock - Not normally stocked in distribution facility



### Main

|                           |  |
|---------------------------|--|
| Range of product          | Zelio Analog   |
| Product or component type | Converter for Optimum Pt100 probes                                     |
| Analogue input type       | Temperature probe - 100...100 °C/- 148...212 °F Pt 100 2, 3 or 4 wires |
| Analogue output type      | Voltage 0...10 V >= 100 kOhm   |

### Complementary

|                                  |   |
|----------------------------------|---|
| Protection type                  | Reverse polarity protection on power supply<br>Short-circuit protection on output<br>Overvoltage protection on output (+/- 30 V)<br>Reverse polarity protection on output |
| Abnormal analogue output voltage | -15...-11 V when no input or input wire broken<br>11...15 V when no input or input wire broken  |
| Abnormal analogue output current | 0...-30 mA when no input or input wire broken<br>22...30 mA when no input or input wire broken  |
| [Us] rated supply voltage        | 24 V DC non isolated +/- 20 %   |
| Current consumption              | <= 40 mA voltage output<br><= 60 mA current output  |
| Local signalling                 | LED green (power ON)  |
| Measurement error                | +/- 0.5 % of full scale (3 or 4 wires) at 20 °C<br>+/- 1 % of full scale (2 wires) at 20 °C<br>+/- 10 % of full scale at 20 °C (electromagnetic interference of 10 V/m)   |
| Repeat accuracy                  | +/- 0.2 % full scale at 20 °C<br>+/- 0.6 % full scale at 60 °C  |
| Temperature coefficient          | 150 ppm/°C  |
| Maximum wiring resistance        | 0.2 Ohm connection in 2 wires   |
| Clamping connection capacity     | 1 x 2.5 mm <sup>2</sup><br>2 x 1.5 mm <sup>2</sup>  |
| Tightening torque                | 5.31...9.73 lbf.in (0.6...1.1 N.m)  |
| Marking                          | CE  |
| Surge withstand                  | 0.5 kV 1.2/50 µs conforming to IEC 61000-4-5  |
| [Ui] rated insulation voltage    | 2000 V  |
| Fixing mode                      | Clip-on, 35 mm symmetrical DIN rail<br>Fixed, mounting plate  |
| Safety reliability data          | MTTFd = 43.9 years<br>B10d = 40564  |
| Product weight                   | 0.26 lb(US) (0.12 kg)   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Environment

|                                       |  |
|---------------------------------------|--|
| Electromagnetic compatibility         | Electrostatic discharge (test level: 6 kV, level 3 - contact discharge) conforming to IEC 61000-4-2<br>Electrostatic discharge (test level: 8 kV, level 3 - air discharge) conforming to IEC 61000-4-2 |
| Standards                             | EN/IEC 60584-1<br>EN/IEC 60947-1<br>EN/IEC 60751<br>DIN 43760  |
| Product certifications                | CSA<br>UL<br>GL  |
| IP degree of protection               | IP20 terminal block<br>IP50 housing  |
| Fire resistance                       | 1562 °F (850 °C) conforming to IEC 60695-2-1<br>1562 °F (850 °C) conforming to UL  |
| Shock resistance                      | 50 gn 11 ms conforming to IEC 60068-2-27   |
| Vibration resistance                  | 5 gn (f = 10...100 Hz) conforming to IEC 60068-2-6   |
| Resistance to fast transients         | 1 kV on input-output conforming to IEC 61000-4-4<br>2 kV on power supply conforming to IEC 61000-4-4   |
| Disturbance radiated/conducted        | CISPR 11<br>CISPR 22 group 1 - class B   |
| Ambient air temperature for storage   | -40...185 °F (-40...85 °C)   |
| Ambient air temperature for operation | 32...122 °F (0...50 °C) (mounting side by side)<br>32...140 °F (0...60 °C) (2 cm spacing)  |
| Pollution degree                      | 2 conforming to IEC 60664-1  |

## Ordering and shipping details

|                       |                                   |
|-----------------------|-----------------------------------|
| Category              | 22375 - INTERFACE MODULE(ABA,R,S) |
| Discount Schedule     | CP2                               |
| GTIN                  | 00785901632344                    |
| Nbr. of units in pkg. | 1                                 |
| Package weight(Lbs)   | 0.23000000000000001               |
| Returnability         | N                                 |
| Country of origin     | ID                                |

## Offer Sustainability

|                           |  |
|---------------------------|--|
| California proposition 65 | WARNING: This product can expose you to chemicals including:   |
| ----- Substance 1         | Nickel compounds, which is known to the State of California to cause cancer, and   |
| ----- Substance 2         | Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. |
| ----- More information    | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              |

## Contractual warranty

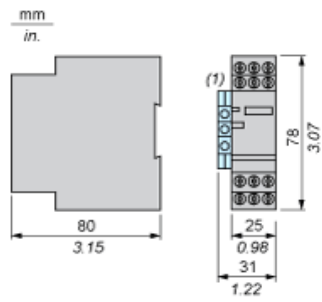
|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

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Analog Interface (Converter)

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Dimensions



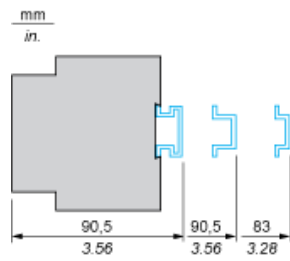
(1) Terminal block AB1TP435U or AB1RRNTP435U2

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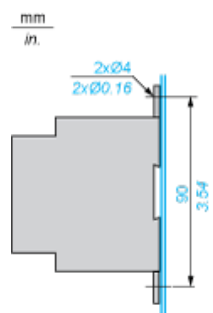
Mounting

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Mounting on Rails AM1•••••

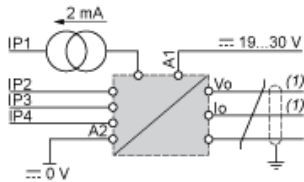


Panel Mounting



Analog Interface: Converter for Optimum Pt100 Probe

Wiring Diagram

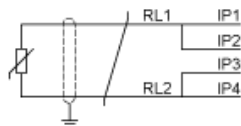


(1) Use 1 output only.

The input, output and power supply lines must be kept away from the power cables to avoid effects due to induced interference. The input and output cables must be shielded as indicated in the schemes and must be kept away from each other.

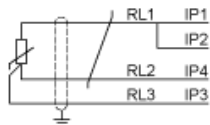
Input Connections

2-wire type



$$RL1 + RL2 \leq 200 \text{ m}\Omega$$

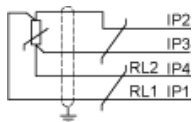
3-wire type



$$RL1 = RL2 = RL3$$

$$RL1 + RL2 \geq 200 \text{ }\Omega$$

4-wire type



$$RL1 + RL2 \leq 200 \text{ }\Omega$$

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