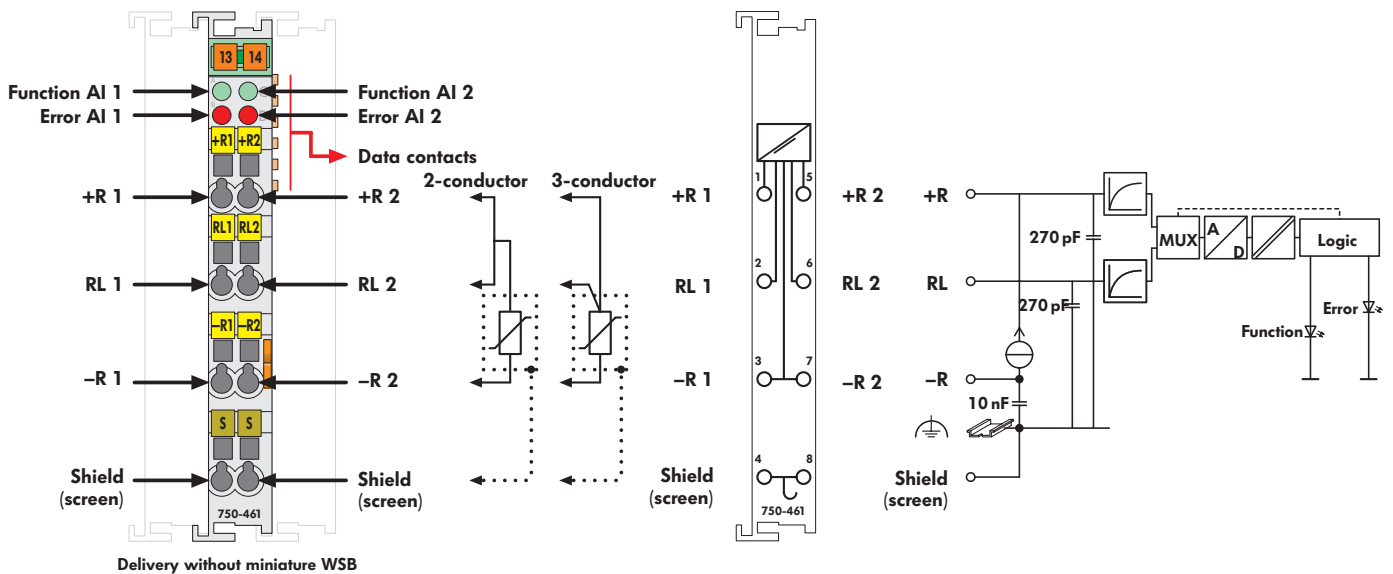


2-Channel Input Module for RTDs



The RTD (resistive temperature device) input module allows the direct connection of Pt or Ni resistance sensors.

The connection of 2- or 3-conductor sensors is possible.

The module linearizes the entire temperature range automatically. A sensor error is indicated by a red LED.

A green LED indicates readiness for operation and trouble-free communication with the buscoupler.

The shield (screen) is directly connected to the DIN rail.

| Description | Item-No. | Pack.-unit pcs | Technical Data |
|---|--|------------------|--|
| 2AI Pt100/RTD | 750-461 | 10 ¹⁾ | No. of inputs 2 Voltage supply via system voltage DC / DC Current consumption max. (internal) 65 mA |
| Pt resistance sensors | | | Sensor types Pt 100 (factory preset), Pt 200, Pt 500, Pt 1000, Ni 100, Ni 120, Ni 1000, resistance measuring |
| 2AI Pt100/ RTD/ S5 ²⁾ | 750-461/000-200 | 1 | Sensor connection 3-wire connection (factory preset) or 2-wire |
| 2AI Pt100/ free configurable | 750-461/003-000 | 1 | Temperature range -200 °C ... +850 °C (PT) -60 °C ... +250 °C (Ni) |
| Ni resistance sensors | | | Resolution (over whole range) 0.1 °C |
| 2AI Ni100/ RTD | 750-461/000-004 | 1 | Conversion time 320 ms (per channel) |
| 2AI Ni1000/ RTD | 750-461/000-005 | 1 | Measuring error _{25°C} < ±0.2 % of full scale value |
| Resistance measuring | | | Temperature coefficient < ±0.01 % / K of full scale value |
| 2AI Resistance Measur. 10R-1k2 | 750-461/000-002 | 1 | Isolation 400 V system / supply |
| 2AI Resistance Measur. 10R-5k0 | 750-461/000-007 | 1 | Measured current typ. 0.5 mA |
| Other variations are available upon request: | | | Bit width 2 x 16 bits data 2 x 8 bits control/ status (option) |
| Pt 100, Pt 200, Pt 500, Pt 1000 | -200 °C ... +850 °C | | |
| Ni 100, Ni 1000 | -60 °C ... +250 °C | | |
| Resistance measuring | | | |
| | | | General specifications |
| | | | Operating temperature 0 °C ... +55 °C |
| | | | Wire connection CAGE CLAMP® 0.08 mm ² ... 2.5 mm ² ; AWG 28 ... 14 8 ... 9 mm / 0.33 in stripped length |
| | | | Dimensions (mm) W x H x L 12 x 64* x 100 * from upper edge of 35 DIN rail |
| | | | Weight ca 55 g |
| | | | Storage temperature -25 °C ... +85 °C |
| | | | Relative air humidity 95 % no condensation |
| | | | Vibration and shock resistance acc. to IEC 60068-2-6 acc. to IEC 60068-2-27 |
| | | | Degree of protection IP 20 |
| | | | EMC CE -Immunity to interference acc. to EN 50082-2 (1996) |
| | | | EMC CE -Emission of interference acc. to EN 50081-1 (1993) |
| | | | EMC marine applications -Immunity to interf. acc. to Germanischer Lloyd (1997) |
| | | | EMC marine applications -Emission of interf. acc. to Germanischer Lloyd (1997) |
| Approvals | | | |
| UL and marine applications | see pages 1.10 ... 1.13 | | |
| Ex | II 3 G EEx nA II T4, Class I Div2 ABCD T4A | | |
| Conformity marking | CE | | |
| Accessories | | | |
| Miniature WSB quick marking system | | | |
| plain | 248-501 | 5 | |
| with marking | see pages 1.174 ... 1.175 | | |