



● **OUTPUT SECTION**

|  |   |   |
|--|---|---|
| <b>Allowable Output Load</b>   |   |   |
| Voltage Output (DC)  | 1V span and up<br>10mV<br>100mV                                       | 2mA max.<br>10kΩ min.<br>100kΩ min.                           |
| Current Output (DC)  | 4-20mA single output<br>4-20mA dual output                            | 750Ω max.<br>Output 1:<br>550Ω max.<br>Output 2:<br>350Ω max. |
| Zero Adjustment  | Approx. ±5% of span.<br>(Adjustable by the front-accessible trimmer.) |   |
| Span Adjustment  | Approx. ±5% of span.<br>(Adjustable by the front-accessible trimmer.) |   |
| <b>Ranges Available</b>  |   |   |
|  | Current Signal  | Voltage Signal  |
| Output Range (DC)  | 0 to 20mA   | -10 to 10V  |
| Output Span (DC)   | 4 to 20mA   | 10mV to 20V   |
| Output Bias  | 0 to 100%   | -100 to 100%  |
| * For current output signals, the accuracy of any current output smaller than 0.1mA is not guaranteed. |   |   |
| Output Spec Ex. 1: For 4 to 20mA output, the output span is 16mA and the bias +25%.                    |   |   |
| Output Spec Ex. 2: For -1 to 4V output, the output span is 5V and the bias -20%.                       |   |   |

● **PERFORMANCE**

|                            |   |
|----------------------------|---|
| Accuracy Rating            | Better than ±0.1% of span (at 25°C±5°C).  |
| Temperature Effect         | Better than ±0.2% of span per 10°C change in ambient.   |
| Response Time              | 160ms max. (0 to 90%) with a step input at 100%.  |
| CMRR                       | 100dB min. (500V AC, 50/60Hz)   |
| Isolation                  | 5-way isolation between input, output 1, output 2, power, and ground.   |
| Insulation Resistance      | 100MΩ min. (@ 500V DC) between input, output 1, output 2, power, and ground.  |
| Dielectric Strength        | Input / [Output 1, Output 2] / [Power, Ground]: 2000V AC for 1 minute (Cutoff current: 0.5mA)<br>Power / Ground: 2000V AC for 1 minute (Cutoff current: 5mA)<br>Output 1 / Output 2: 500V AC for 1 minute (Cutoff current: 0.5mA) |
| Surge Withstand Capability | Tested as per ANSI/IEEE C37.90.1-1989.  |
| Operating Environment      | Ambient temperature: -5 to 55°C<br>Humidity: 5 to 90% RH (non-condensing)   |
| Storage Temperature        | -10 to 60°C   |

● **PHYSICAL**

|                     |  |
|---------------------|--|
| Installation        | DIN rail mounting  |
| Wiring              | M3.5 screw terminal connection (with drop-out prevention screws) |
| Screwing Torque     | 0.8 to 1.0 [Nm] * Recommended                                    |
| External Dimensions | W49.8 × H102.0 × D40.0mm   |
| Weight              | 140g max.  |

● **MATERIALS**

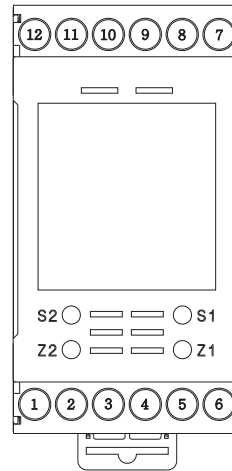
|                       |   |
|-----------------------|---|
| Housing               | ABS resin (UL 94V-0)                      |
| Screw Terminal        | Nickel-plated steel                       |
| Printed Circuit Board | Glass fabric epoxy resin (FR-4: UL 94V-0) |
| Anti-Humidity Coating | HumiSeal® 1A27NS (Polyurethane)           |

\* HumiSeal® is a registered trademark of Chase Corporation.

● **STANDARDS CONFORMITY**

|                         |  |
|-------------------------|--|
| EC Directive Conformity | EMC Directive (2014/30/EU) EN61326-1: 2013<br>Low Voltage Directive (2014/35/EU) IEC61010-1/EN61010-1: 2010<br>Installation Category II<br>Pollution Degree 2<br>Maximum operating voltage 300V<br>Reinforced insulation between [input/output/GND] and power. |
|-------------------------|--|

**TERMINAL ASSIGNMENT**



|   |            |
|---|------------|
| ① | + OUTPUT 2 |
| ② | - OUTPUT 2 |
| ③ | N.C.       |
| ④ | P (+)      |
| ⑤ | N (-)      |
| ⑥ | GND        |
| ⑦ | + INPUT    |
| ⑧ | - INPUT    |
| ⑨ | N.C.       |
| ⑩ | N.C.       |
| ⑪ | + OUTPUT 1 |
| ⑫ | - OUTPUT 1 |

BLOCK DIAGRAM

