

# THERMOCOUPLE ISOLATED TRANSMITTER

# S4T-TC



## FEATURES

- Converting a T.C. input into a standard process signal.
- Cold junction compensated.
- Isolation: Input to output to power.
- DIN rail type.



## ORDERING INFORMATION

MODEL: S4T-TC- [ ] [ ] [ ] [ ]

### Input Type (Usable Range)

- |                   |                  |
|-------------------|------------------|
| K (-200 ~ 1200°C) | R (0 ~ 1700°C)   |
| E (-250 ~ 800°C)  | S (0 ~ 1700°C)   |
| J (-200 ~ 1000°C) | B (600 ~ 1800°C) |
| T (-200 ~ 400°C)  | O (Option)       |

### Input Temperature Range

- |                  |                   |
|------------------|-------------------|
| A : -50 ~ 100 °C | F : 0 ~ 1200 °C   |
| B : 0 ~ 100 °C   | G : 0 ~ 1600 °C   |
| C : 0 ~ 200 °C   | H : 300 ~ 1600 °C |
| D : 0 ~ 400 °C   | O : Option        |
| E : 0 ~ 1000°C   |                   |

### DC Output Range (Output Resistance)

- |              |           |
|--------------|-----------|
| V2: 0 ~ 5V   | (≧ 1KΩ)   |
| V3: 1 ~ 5V   | (≧ 1KΩ)   |
| V4: 0 ~ 10V  | (≧ 1KΩ)   |
| A1: 0 ~ 1mA  | (0~10KΩ)  |
| A2: 0 ~ 10mA | (0~1.5KΩ) |
| A3: 0 ~ 20mA | (0~750Ω)  |
| A4: 4 ~ 20mA | (0~750Ω)  |
| 00: Option   |           |

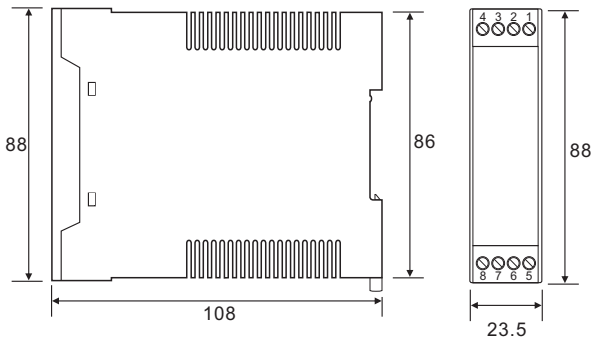
### Power Supply

- A: AC / DC 90 ~ 260V    B: DC 20 ~ 60V  
O: Option

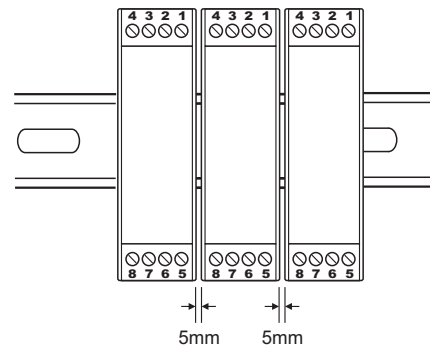
## SPECIFICATION

- Accuracy .....  $\pm 0.2\% \text{R.O.} \pm 0.5^\circ\text{C(RJC)} / (23 \pm 3^\circ\text{C})$   
 Add 0.2% when the output span. equals 1/10  
 or narrower of the max. span.
- Response time .....  $\leq 400 \text{msec. } 0 \sim 99\%$
- Output ripple .....  $\leq 0.5\% \text{R.O. (Peak)}$
- Power supply ..... AC/DC 90-260 V  
 DC 20-60V (Option)
- Power consumption ..... at 240V  $\leq \text{AC } 6.5 \text{VA} \leq \text{DC } 5 \text{W}$   
 110V  $\leq \text{AC } 4 \text{ VA} \leq \text{DC } 3 \text{W}$
- Input resistance .....  $\geq 5 \text{M}\Omega$
- Input break detection ..... Output  $\geq 110\% \text{R.O.}$
- Temperature coefficient .....  $\leq 150 \text{PPM}/^\circ\text{C}$
- Operating temperature .....  $-5 \sim 50^\circ\text{C}$
- Storage temperature .....  $-10 \sim 70^\circ\text{C}$
- Max. relative humidity .....  $0 \sim 90\%$
- Isolation ..... Input/Output/Power
- Dielectric strength ..... AC 1.8KV/min.
- Insulation resistance .....  $\geq 100 \text{M}\Omega, \text{DC } 500 \text{V}$
- Electrostatic discharge ..... IEC 61000-4-2.
- Electromagnetic fields immunity ..... IEC 61000-4-3.
- Electrical transient in burst ..... IEC 61000-4-4.
- Withstanding impulse voltage ..... IEC 61000-4-5.
- Immunity to voltage dips ..... IEC 61000-4-11.
- Weight ..... Abt. 120g

## THE OUTSIDE DIMENSION (UNIT: mm)



## DEMAND FOR MOUNTING (UNIT: mm)



## SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

