

Thin type potentiometer transducer

MODEL TH-2B, 5B

NEW!



Input Specification

Potentiometer resistance 100 to 10k Ω
Reference voltage 0.5V

Code	Input
1	0 to 100%
Y	Other than the above

For code No.Y limit of specifications
Minimum span: More than 50%

Output Specification

Code	Output	Load resistance
0	0 to 5V DC	More than 2K Ω
1	1 to 5V DC	
2	0 to 10V DC	More than 4K Ω
3	-10 to 10V DC	Negative output: more than 10k Ω
A	4 to 20mA DC	Less than 550 Ω
Y	Other than the above	

For code No.Y limit of specifications
Voltage output: -10 to 10V DC
Minimum span: 1 to 20V
Current output: 0 to 20mA DC
Minimum span: 1 to 20mA

General Specifications

Base accuracy: $\pm 0.1\%$ F.S (at 25 $\pm 2^\circ\text{C}$)
Load resistance variation: $\pm 0.06\%$ F.S
Power supply variation: $\pm 0.06\%$ F.S
Temperature characteristic: $\pm 0.02\%$ F.S/ $^\circ\text{C}$
Response time: 50msec TYP (0 \rightarrow 90%)
Setting change error: $\pm 1\%$ F.S
Front adjustments: More than $\pm 5\%$ F.S (zero, span)
Insulation resistance: Between the input and output/power supply
More than 100M Ω at 500V DC
Dielectric strength: Between the input and output/power supply
For 1 min. at 1500V AC
Power supply voltage: 100 to 240V AC $\pm 10\%$
24V DC $\pm 10\%$
Consuming current: Less than 20mA (at 100V AC)
Less than 50mA (at 24V DC)
Operating ambient temperature: -5 to 50 $^\circ\text{C}$
Operating ambient humidity: Less than 90%RH (No-condensing)
Storage temperature: Within -10 to +70 $^\circ\text{C}$
Storage humidity: Less than 60%RH (No-condensing)
Case material: Black PC 94V-2
Weight: Approx. 80g
Applicable standards: TH-5B (24V DC POWER)
EN61326: 1997 +A1: 1998 +A2: 2001
Only in the case of lines < 30m.
The above standards do not apply to the converter with "Y" specifications.

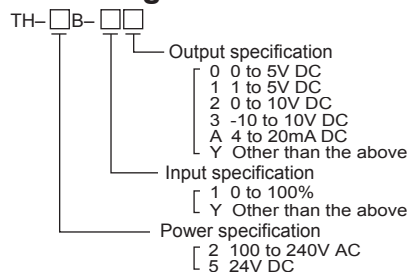
Setting input range

ON	1 2 3 4	0 to 70%	ON	1 2 3 4	10 to 90%
OFF			OFF		
		0 to 80%			10 to 100%
		0 to 90%			20 to 90%
		0 to 100%			20 to 100%
		10 to 80%			30 to 100%

Features

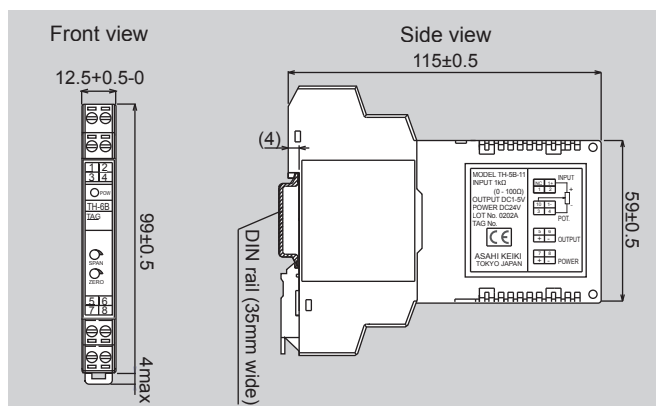
- AC power supply 100 to 240V AC
- DIN rail mounting
- Input/Output/Power supply isolated
- Can change input and output by dip switch

Ordering Code

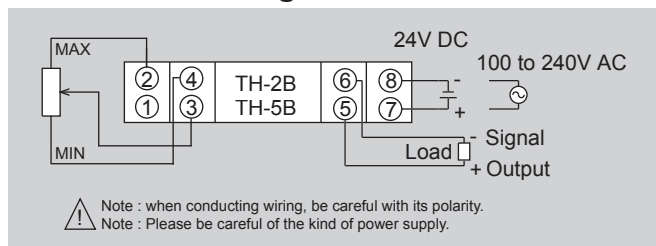


Example: TH- 5 B-

Dimensions



Connection Diagram



Block Diagram

