Thin type potentiometer transducer

MODEL TH-2B, 5B

(Only DC Power)

■ Features

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

■ Input Specification

Potentiometer resistance 100 to 10kΩ
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 2KΩ
1	1 to 5V DC	
2	0 to 10V DC	More than 4KΩ
3	-10 to 10V DC	Negative output:more than 10kΩ
A	4 to 20mA DC	Less than 550Ω
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: ±0.1% F.S (at 25±2°C)
Load resistance variation: ±0.06% F.S
Power supply variation: ±0.06% F.S
Temperature characteristic: ±0.02% F.S/°C
Response time: 50msec TYP (0 → 90%)
Setting change error: ±1%F.S
Front adjustments: More than ±5%F.S (zero, span)
Insulation resistance: Between the input and output/power supply
More than 100MΩ 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 ±10%
24V DC ±10%
Consuming current: Less than 20mA (at 100V AC)
Less than 50mA (at 24V DC)
Operating ambient temperature : -5 to 50°C
Operating ambient humidity : Less than 90%RH (No-condensing)
Storage temperature : Within -10 to +70°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)
EN61326-1
Only in the case of lines < 30m.
The above standards do not apply to the converter with "Y" specifications.
EN IEC 63000

■ Setting input range

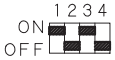
0 to 70%


0 to 80%


0 to 90%


0 to 100%


10 to 80%



10 to 90%


10 to 100%


20 to 90%


20 to 100%

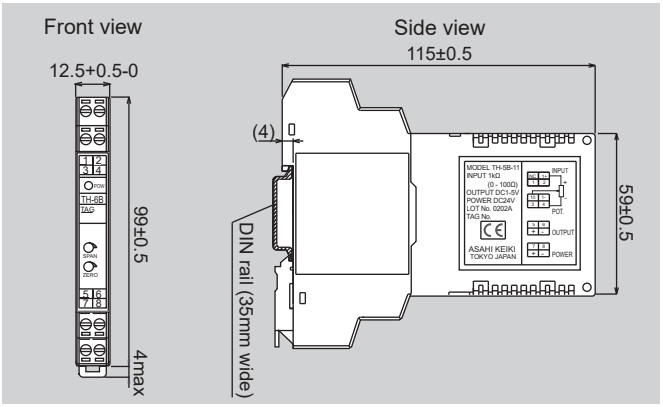

30 to 100%

■ Ordering Code

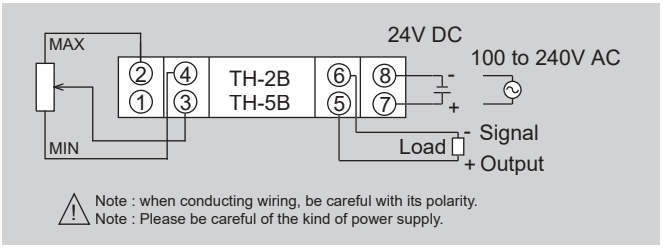
TH– □B– □□
- Output specification
  - 0 0 to 5V DC
  - 1 1 to 5V DC
  - 2 0 to 10V DC
  - 3 -10 to 10V DC
  - A 4 to 20mA DC
  - Y Other than the above
- Input specification
  - 1 0 to 100%
  - Y Other than the above
- Power specification
  - 2 100 to 240V AC
  - 5 24V DC

Example : TH– 5 B– 1 0

■ Dimensions



■ Connection Diagram



Note : when conducting wiring, be careful with its polarity.
Note : Please be careful of the kind of power supply.

■ Block Diagram