Thin type potentiometer transducer
MODEL TH-2B, 5B

NEW!

(Only DC Power)

■ Input Specification
Potentiometer resistance: 100 to 10kΩ
Reference voltage: 0.5V

<table>
<thead>
<tr>
<th>Code</th>
<th>Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0 to 100%</td>
</tr>
<tr>
<td>Y</td>
<td>Other than the above</td>
</tr>
</tbody>
</table>

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

■ Output Specification

<table>
<thead>
<tr>
<th>Code</th>
<th>Output</th>
<th>Load resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0 to 6V DC</td>
<td>More than 2kΩ</td>
</tr>
<tr>
<td>1</td>
<td>1 to 9V DC</td>
<td>More than 4kΩ</td>
</tr>
<tr>
<td>2</td>
<td>0 to 10V DC</td>
<td>More than 4kΩ</td>
</tr>
<tr>
<td>3</td>
<td>-10 to 10V DC</td>
<td>Less than 10kΩ</td>
</tr>
<tr>
<td>A</td>
<td>4mA to 20mA DC</td>
<td>Less than 350Ω</td>
</tr>
<tr>
<td>Y</td>
<td>Other than the above</td>
<td></td>
</tr>
</tbody>
</table>

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)
Only in the case of lines < 30m.
The above standards do not apply to the converter with “Y” specifications.

■ Setting input range

<table>
<thead>
<tr>
<th>Code</th>
<th>Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0 to 70%</td>
</tr>
<tr>
<td>1</td>
<td>0 to 80%</td>
</tr>
<tr>
<td>2</td>
<td>0 to 90%</td>
</tr>
<tr>
<td>3</td>
<td>0 to 100%</td>
</tr>
<tr>
<td>4</td>
<td>10 to 80%</td>
</tr>
</tbody>
</table>

■ 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-5B-10

■ Dimensions

Front view Side view

12.5±0.5 115±0.5

■ Connection Diagram

24V DC

TH-2B TH-5B

100 to 240V AC

Load Signal Output

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

■ Block Diagram

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