

Slim type signal isolate transmitter

Model TH-2X, 5X



(Only DC Power)

Input Specification

Code	Input	Input resistance	Input allowable range
0	0 to 5V DC	More than 1MΩ	-50 to +150% F.S
1	1 to 5V DC		
2	0 to 10V DC		
3	-10 to 10V DC		
4	0 to 1V DC		
5	0 to 0.1V DC		
6	0 to 0.06V DC		
7	0 to 20V DC		
8	-2 to 2V DC		
9	-5 to 5V DC		
A	4 to 20mA DC	250Ω	-50 to +150% F.S
B	0 to 20mA DC		
Y	Other than the above		

For code NO.Y limit of specifications

Voltage input: -250 to 250V DC

Current input: -50 to 50mA DC

Minimum span : 0.06 to 500V

Minimum span : 1 to 100mA

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	
A	4 to 20mA DC	Negative output : more than 10KΩ
Y	Other than the above	

For code No.Y limit of specifications

Voltage output: -10 to 10V DC

Minimum span: 0.06 to 20V

(Base accuracy: $\pm 0.15\%$ F.S and temperature characteristic: $\pm 0.03\%$ F.S/ $^{\circ}$ C for a span of less than 1V)

Current output: 0 to 20mA DC

Minimum span: 1 to 20mA

General Specifications

Base accuracy: $\pm 0.1\%$ F.S (at $25 \pm 2^{\circ}$ C)

Load resistance variation: $\pm 0.06\%$ F.S

Power supply variation: $\pm 0.06\%$ F.S

Temperature characteristic: $\pm 0.02\%$ F.S/ $^{\circ}$ C

Response time: 50 or 1msec TYP (0 \rightarrow 90%)

Front adjustments: $\pm 5\%$ 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 $\pm 10\%$
24V DC $\pm 10\%$

Consuming current: Less than 20mA (at 100V AC)
Less than 50mA (at 24V DC)

Operating ambient temperature: -5 to 50° C

Operating ambient humidity: Less than 90%RH (No-condensing)

Storage temperature: Within -10 to $+70^{\circ}$ C

Storage humidity: Less than 60%RH (No-condensing)

Case material: Black PC 94V-2

Weight: Approx. 80g

Applicable standards : TH-5X (24V DC POWER)

EN61326-1

Only in the case of lines < 30m.

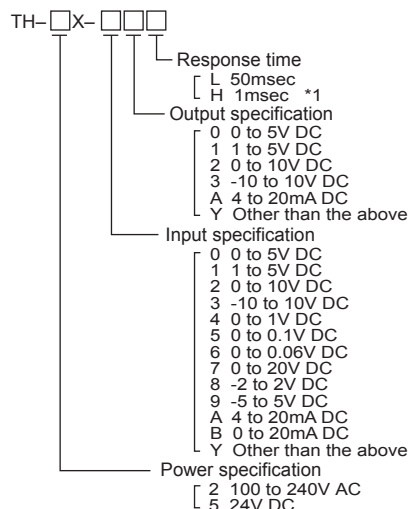
The above standards do not apply to the converter with "Y" specifications.

EN IEC 63000

Features

- AC power supply 100 to 240V AC
- DIN rail mounting
- Input/Output/Power supply isolated

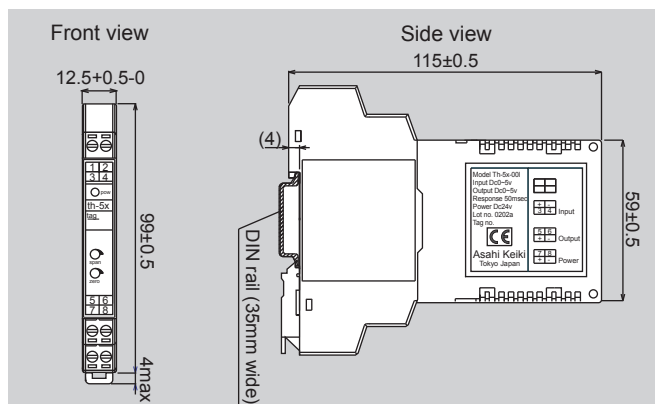
Ordering Code



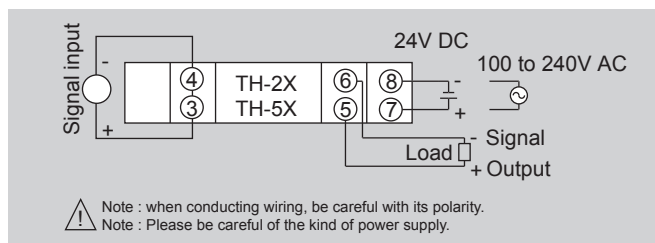
*1 At AC power, the current output of 1msec responses cannot be chosen.

Example : TH- 5 X-

Dimensions



Connection Diagram



Block Diagram

