# Thin type universal isolate transducer

# **MODEL TH-2M, 5M**





(Only DC Power)

## ■ Input Specification

	1	1	
Input	Input resistance	Input allowable range	
0 to 5V DC		50 to 1450% 5.0	
1 to 5V DC	More than 1MΩ		
0 to 10V DC			
0 to 0.06V DC		-50 to +150% F.S	
4 to 20mA DC	2500	1	
0 to 20mA DC	725002		

## ■ Output Specification

Output	Load resistance	
0 to 5V DC		
1 to 5V DC		
0 to 10V DC	More than 2KΩ	
-2 to 2V DC		
-2.5 to 2.5V DC		
-5 to 5V DC		
-10 to 10V DC		
0 to 4V DC		
4 to 20mA DC	Less than 550Ω	

## ■ General Specifications

Range setting before shipment: Input;1to 5V, Output;4 to 20mA

Error caused by input range setting change: ±1%F.S Error caused by output range setting change: ±1%F.S 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

Less than 50msec TYP (At AC power,  $0 \rightarrow 90\%$ ) Less than 10msec TYP (At DC power,  $0 \rightarrow 90\%$ ) Response time: Response time:

More than ±5%F.S (zero, span) Front adjustments:

Between the input and output/power supply More than 100M $\Omega$  at 500V DC Insulation resistance:

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 30mA (at 100V AC) Less than 60mA (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

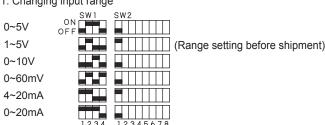
Storage humidity: Less than 60%RH (No-condensing) Case material: Black PC 94V-2

Approx. 80g

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

EN61326: 1997 +A1: 1998 +A2: 2001 Only in the case of lines < 30m.

#### 1. Changing input range



#### ■ Features

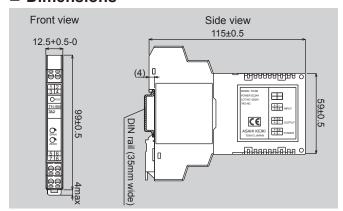
- AC power supply 100 to 240V AC
- DIN rail mounting
- Input/Output/Power supply isolated
- Can change input and output by dip switch

## Ordering Code

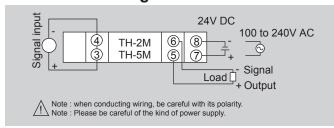


Example: TH-5M

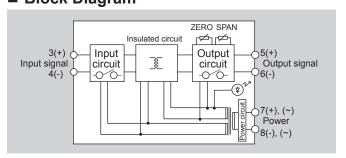
## **■** Dimensions



## ■ Connection Diagram



# Block Diagram



### 2. Changing output range

=: 0::a::g::g 0atpat:a::g0				
	SW1	SW2		
0~5V	OF F			
1~5V				
0~10V				
-2~2V				
-2.5~2.5V				
-5~5V				
-10~10V				
0~4V				
4~20mA				
	1234	12345678		

(Range setting before shipment)