

## 직류 변환기 (DC Isolating Transducer)

### ■ 주요사양 ( Specification )

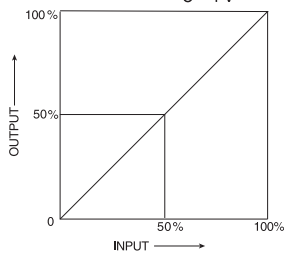
- Accuracy Class : 0.2% of span
- Response Time : 0.4sec (0~99% for step change)

| Output Mode | Type   | Rated Input(AC)    |         | Output (DC) | Load Com.      | Input Resistance | Burden | Auxiliary Power (AC) | Weight (g)    | Case Model |
|-------------|--------|--------------------|---------|-------------|----------------|------------------|--------|----------------------|---------------|------------|
|             |        | Voltage            | Current |             |                |                  |        |                      |               |            |
| DC Current  | TA-DA1 | —                  | 0~1mA   | 0~1mA       | < 10k $\Omega$ | < 10k $\Omega$   | 0.5 VA | 110 / 220V           | $\approx$ 780 | TL         |
|             | TA-DA2 |                    | or      | 4~20mA      | < 500 $\Omega$ | or               |        |                      |               |            |
|             | TA-DA3 |                    | 4~20mA  | -1~0~+1mA   | < 5k $\Omega$  | < 500 $\Omega$   |        |                      |               |            |
|             | TA-DV1 | 0~1V<br>or<br>1~5V | —       | 0~1mA       | < 10k $\Omega$ | > 200 $\Omega$   |        |                      |               |            |
|             | TA-DV2 |                    |         | 4~20mA      | < 500 $\Omega$ | or               |        |                      |               |            |
|             | TA-DV3 |                    |         | -1~0~+1mA   | < 5k $\Omega$  | > 1k $\Omega$    |        |                      |               |            |
| DC Voltage  | TV-DA1 | —                  | 0~1mA   | 0~1V        | > 200 $\Omega$ | < 10k $\Omega$   | 0.5 VA | 110 / 220V           | $\approx$ 780 | TL         |
|             | TV-DA2 |                    | or      | 1~5V        | > 1k $\Omega$  | or               |        |                      |               |            |
|             | TV-DA3 |                    | 4~20mA  | -1~0~+1V    | > 200 $\Omega$ | < 500 $\Omega$   |        |                      |               |            |
|             | TV-DV1 | 0~1V<br>or<br>1~5V | —       | 0~1V        | > 200 $\Omega$ | > 200 $\Omega$   |        |                      |               |            |
|             | TV-DV2 |                    |         | 1~5V        | > 1k $\Omega$  | or               |        |                      |               |            |
|             | TV-DV3 |                    |         | -1~0~+1V    | > 200 $\Omega$ | > 1k $\Omega$    |        |                      |               |            |

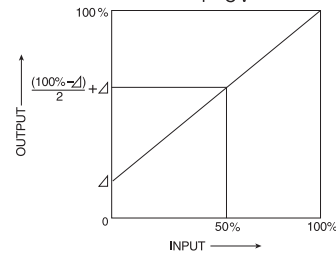
※ 주문사양에 따라 입력, 출력, 제어전원 및 주파수를 변경하여 제작이 가능합니다.  
Order made is available except for standard products. (Input, Output, Auxiliary power, Frequency)

### ■ Input-Output Curve

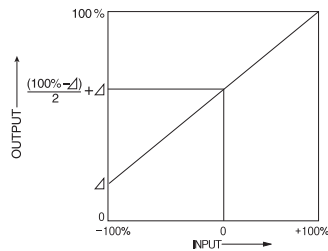
- Output Range : 0~1mA  
0~1V



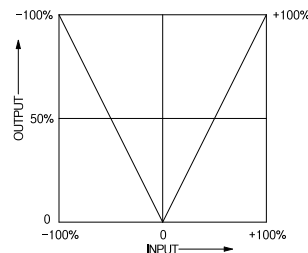
- Output Range : 4~20mA  
1~5V



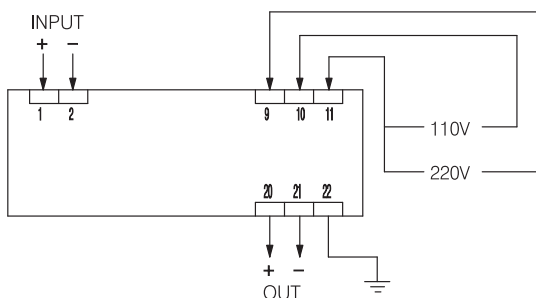
- Output Range : 4~12~20mA  
1~3~5V



- Output Range : -1~0~+1mA  
-1~0~+1V



### ■ 외부 결선 ( External Connection )



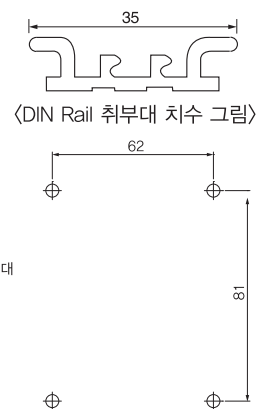
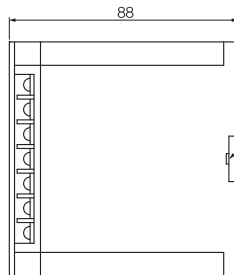
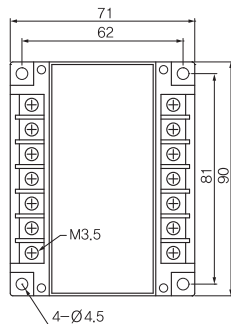
## ■ 주요성능 ( Performance )

- Standard Test Temperature :  $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$
- Operating Temperature Range :  $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$
- Storage Temperature Range :  $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$
- Operating Humidity : 30~85%, non-condensing
- Color of case : Black (Munsell No N1.5)
- Material of Case : ABS Resin / DIN rail type
- Terminal Screws : M3.5
- Auxiliary Power : AC 110 / 220 V
- Zero Adjustment :  $\pm 10\%$  minimum
- Span Adjustment :  $\pm 10\%$  minimum
- Influences Affecting Accuracy
  - Temperature : Less than 0.2% from 0 to  $50^{\circ}\text{C}$
  - Long-term Stability : Less than 0.2% / year non-cumulative
  - Frequency : Less than 0.1% 50Hz or 60Hz
  - External magnetic field : Less than 0.2% 400 A / m
- Overload Current : 1.2  $I_n$  continuous  
10  $I_n$  3 sec.
- Voltage : 1.2  $V_n$  continuous  
1.5  $V_n$  10sec.
- Dielectric Strength : Input terminal to Case AC 2000V 1 minute  
Input to Output terminal AC 2000V 1 minute
- Impulse / Surge :  $1.2 \times 50\mu\text{s}$ , 5kV / 2.5kV 1MHz

## ■ 외형 치수 ( Dimension )

Unit : mm

### ■ TS Type



〈DIN Rail 취부대 치수 그림〉

### ■ TL Type

