

# §Small-sized plug-in transducer§

1 output type

Ultrahigh speed isolator

FSUS

## Application

Insulates various kinds of DC signals and converts them into a unified intersystem signal. With input and output insulated, the product offers full advantages in transmitting insulated signals between measuring systems, cutoff of noise, protecting a control circuit from a sneak current, and transmitting an output directly to a distant place. Also can be used as a high speed feedback signal (  $180 \mu s/90%$ ) in a control circuit. Up to 16 units can be housed in an installation base.

Keep in mind that because this device is high speed response, its ripple-removal ability is not as high as that of an isolator.

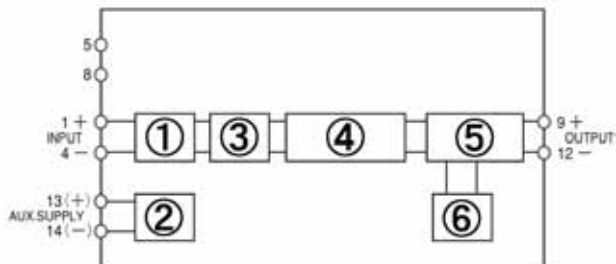


23 × 76 × 125mm/130g

## Feature

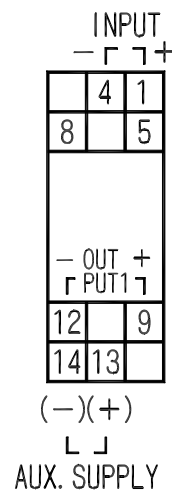
1. Withstand voltage between input and output is AC1, 500V (50/60Hz) for 1 min..
2. Withstand voltage between input/output/auxiliary supply/outer case is AC2, 000V (50/60Hz) for 1 min..
3. Constant voltage/current output type. No need to adjust the product if it operates within load resistance range.
4. A LED can confirm status of electric power applied.
5. Zero/span is adjustable. ( $\pm 2%$  adjustable)

## Block Diagram



- Input filter
- Insulated power source circuit
- Input amplifying circuit
- Capacitively-coupled isolation amplifier
- Constant voltage/current
- Reference voltage

## Connection diagram (socket)



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## Specification

How to specify

Type name

FSUS

Specification code

□ □ □ □ X □ □ 0

| Input (input resistant)   | Output (load resistant)  | Auxiliary supply   | Power fuse                                 | Common specification   |
|---|--|--|--|--|
| <p>0A2 :DC0-50mV ( approx.1M )</p> <p>0A3 :DC0-60mV ( approx.1M )</p> <p>0A4 :DC0-100mV ( approx.1M )</p> <p>0A5 :DC0-1V ( approx.1M )</p> <p>0A6 :DC0-5V ( approx.1M )</p> <p>0A7 :DC0-10V ( approx.1M )</p> <p>0A8 :DC1-5V ( approx.1M )</p> <p>0B2 :DC ± 50mV ( approx.1M ) *1</p> <p>0B3 :DC ± 60mV ( approx.1M ) *1</p> <p>0B4 :DC ± 100mV ( approx.1M ) *1</p> <p>0B5 :DC ± 1V ( approx.1M ) *1</p> <p>0B6 :DC ± 5V ( approx.1M ) *1</p> <p>0B7 :DC ± 10V ( approx.1M ) *1</p> <p>0C3 :DC0-1mA ( approx.100 )</p> <p>0C4 :DC0-5mA ( approx.100 )</p> <p>0C5 :DC0-10mA ( approx.100 )</p> <p>0C6 :DC0-16mA ( approx.100 )</p> <p>0C7 :DC4-20mA ( approx.100 )</p> <p>0D4 :DC ± 1mA ( approx.100 ) *1</p> <p>0D5 :DC ± 5mA ( approx.100 ) *1</p> <p>0D6 :DC ± 10mA ( approx.100 ) *1</p> <p>ZZZ : other than those above *2<br/>(See product range)</p> | <p>2 :DC0-1V ( 200 )</p> <p>3 :DC0-5V ( 600 )</p> <p>4 :DC0-10V ( 2k )</p> <p>5 :DC1-5V ( 600 )</p> <p>6 :DC ± 5V ( 1k ) *1</p> <p>7 :DC ± 10V ( 2k ) *1</p> <p>E :DC1-5mA ( 3k )</p> <p>F :DC4-20mA ( 750 )</p> <p>Z :other than those above *2<br/>(See product range)</p> | <p>F :AC/DC80-264V<br/>Rated Voltage<br/>AC100/110V<br/>50/60Hz<br/>AC200/220V<br/>50/60Hz<br/>DC100/110V</p> <p>G :DC24V<br/>(DC19-30V)</p> | <p>1 :without fuse</p> <p>2 :with fuse</p> | <p>Conversion accuracy:<br/>± 0.1%</p> <p>Temperature characteristics:<br/>0.2%/10</p> <p>Response time:<br/>180 μ s/90%</p> <p>Consumption VA:<br/>At AC110V: 3.0VA<br/>At AC220V: 4.0VA<br/>At DC110V: 2.0W<br/>At DC24V: 2.0W</p> <p>Weight:<br/>Without socket:<br/>approx.100g<br/>With socket:<br/>approx.130g</p> |

\*1 Plus/minus output is the standard for plus/minus input.

\*2 Consult with us for specification other than those indicated in the table above.

### Product Range (including special handling)

| Input  | Output  |
|--|---|
| Current input : 10 μ A-50mA<br>Voltage input : 10mV-300V | Current output: 4-20mA, 1-5mA only<br>Voltage output: -10V-10V (output span 1V) |

Current input: conversion accuracy, temperature characteristics and suchlike of an input more than 10μA but less than 499μA are different from standards.  
Voltage input: conversion accuracy, temperature characteristics and suchlike of an input more than 10mV but less than 49mV are different from standards.

### UR-2 precise resistance unit (Selling separately)

Please use a UR-2 combined with an isolator of voltage input. When changing the isolator in a hot line state at the time of current input, if measures against open are necessary, connect UR-2 to socket and convert it into a voltage signal before using it. (UR-2, resistance to be specified) (Specify any one of 10Ω, 50Ω, 62.5Ω, 100Ω, 250Ω, 500Ω, 1kΩ)