

§Small-sized plug-in transducer§

1 output type

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 (500 μ 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.

High speed isolator

FSHS

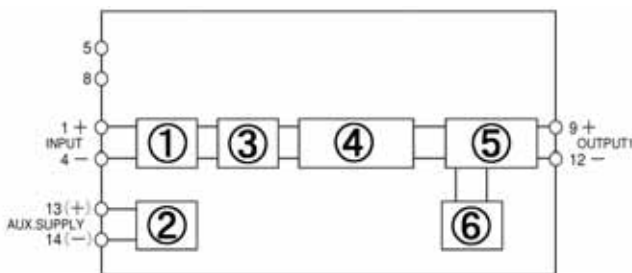


23 × 76 × 125mm/130g

Feature

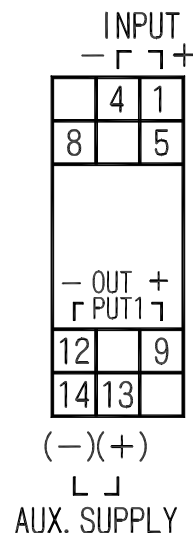
1. Withstand voltage between input and output is AC1, 500V (50/60Hz) for 1 min..
2. Withstand voltage between input/output/auxiliary supply/outer case is AC2, 000V (50/60Hz) for 1 min..
3. Constant voltage/current output type. No need to adjust the product if it operates within load resistance range.
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
- Output circuit
- Reference voltage

Connection diagram (socket)



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High speed isolator

Specification

How to specify

Type name
FSHS

Specification code

□ □ □ □ X □ □ 0

Input (input resistant)	Output (load resistant)	Auxiliary supply	Power fuse	Common specification
0A2 :DC0-50mV (approx.1M) 0A3 :DC0-60mV (approx.1M) 0A4 :DC0-100mV (approx.1M) 0A5 :DC0-1V (approx.1M) 0A6 :DC0-5V (approx.1M) 0A7 :DC0-10V (approx.1M) 0A8 :DC1-5V (approx.1M) 0B2 :DC ± 50mV (approx.1M)*1 0B3 :DC ± 60mV (approx.1M)*1 0B4 :DC ± 100mV (approx.1M)*1 0B5 :DC ± 1V (approx.1M)*1 0B6 :DC ± 5V (approx.1M)*1 0B7 :DC ± 10V (approx.1M)*1 0C3 :DC0-1mA (approx.100) 0C4 :DC0-5mA (approx.100) 0C5 :DC0-10mA (approx.100) 0C6 :DC0-16mA (approx.100) 0C7 :DC4-20mA (approx.100) 0D4 :DC ± 1mA (approx.100)*1 0D5 :DC ± 5mA (approx.100)*1 0D6 :DC ± 10mA (approx.100)*1 ZZZ : other than those above *2 (See product range)	1 :DC0-100mV (200) 2 :DC0-1V (200) 3 :DC0-5V (600) 4 :DC0-10V (2k) 5 :DC1-5V (600) 6 :DC ± 5V (1k) *1 7 :DC ± 10V (2k) *1 A :DC0-1mA (10k) B :DC0-5mA (2k) C :DC0-10mA (1k) D :DC0-16mA (600) E :DC1-5mA (3k) F :DC4-20mA (750) G :DC ± 1mA (10k)*1 J :DC ± 5mA (2k)*1 Z :other than those above *2 (See product range)	F :AC/DC80-264V Rated Voltage AC100/110V 50/60Hz AC200/220V 50/60Hz DC100/110V E :DC24V (DC19-30V)	1 :without fuse 2 :with fuse	Conversion accuracy: ± 0.1% Temperature characteristics: 0.2%/10 Response time: 500 μ s/90% Consumption VA: At AC110V: 3.0VA At AC220V: 4.0VA At DC110V: 2.0W At DC24V: 2.0W Weight: Without socket: approx.100g With socket: approx.130g

*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 Voltage input : 10mV-300V	Current output: -5mA-20mA Voltage output: -10V-10V

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)