

# §Small-sized plug-in transducers§

## 1 output type

## AC voltage transducer

FSVT

### Application

Converts AC voltage electric power system into a DC signal in proportion to input. 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. Up to 16 units can be housed in an installation base.

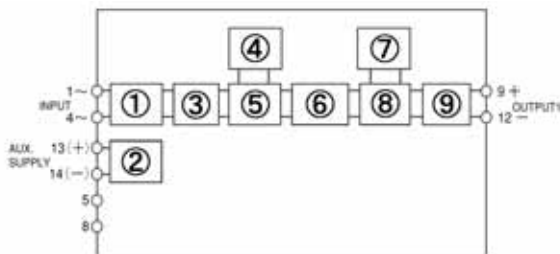


23 × 76 × 125mm/160g

### Feature

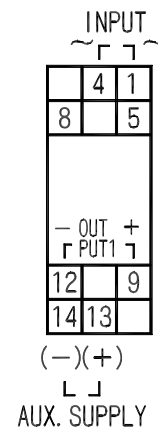
1. Compact and high withstand voltage.
2. Withstand voltage between input/output/auxiliary supply/outer case is AC2, 000V (50/60Hz) for 1 min..
3. Constant voltage/current output type. No need to adjust the product if it operates within load resistance range.
4. A LED can confirm status of electric power applied.
5. Zero/span is adjustable. ( $\pm 2\%$  adjustable)
6. Because the device is RMS value operation type, it can also be used with a distorted waveform or a SCR waveform.

### Block Diagram



- RMS value converter circuit
- Insulated power source circuit
- Smoothing circuit
- Oscillating circuit
- Pulse width modulation circuit
- Photo coupler insulation
- Reference voltage
- Pulse width demodulation circuit
- Output circuit

### Connection diagram (socket)



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*1 output type*

*AC voltage transducer*

## Specification

How to specify

Type name

**FSVT**

-

Specification code

X

X

X

0

Input	Output (load resistant)	Auxiliary supply	Power fuse	Common specification
1:AC0-100V	1:DC0-100mV ( 200 )	F:AC/DC80-264V	1:without fuse	<b>Conversion accuracy:</b> ± 0.5%  <b>Temperature characteristics:</b> 0.25%/10  <b>Response time:</b> 0.25s/90%  <b>Consumption VA:</b> input: 0.1VA At AC110V: 3.5VA At AC220V: 4.5VA At DC110V: 2.0W At DC24V: 2.0W  <b>Weight:</b> Without socket: approx.130g With socket: approx.160g
2:AC0-110V	2:DC0-1V ( 200 )	Rated Voltage	2:with fuse	
3:AC0-150V	3:DC0-5V ( 600 )	AC100/110V		
4:AC0-200V	4:DC0-10V ( 2k )	50/60Hz		
5:AC0-259V	5:DC1-5V ( 600 )	AC200/220V		
6:AC0-300V		50/60Hz		
	A:DC0-1mA ( 10k )	DC100/110V		
	B:DC0-5mA ( 2k )			
	C:DC0-10mA ( 1k )	5:DC24V		
	D:DC0-16mA ( 600 )	(DC19-30V)		
	E:DC1-5mA ( 3k )			
	F:DC4-20mA ( 750 )			
Z:other than those above *1 (See product range)	Z:other than those above *1 (See product range)			

\*1 Consult with us for specification other than those indicated in the table above.

### Product Range (including special handling)

Input	Output
Input voltage AC0- (10-300V)	Current output:0-(1mA-20mA) Voltage output: 0-(10mV-10V)

Input voltage of 50V or less is subject to special handling.