

# §Small-sized plug-in transducers§

1 output type

Revolution-speed transducer

FSGT

## Application

Takes input from a tacho-generator installed on a dynamo or suchlike; insulates input and output and converts it into a DC signal proportional to number of revolutions (frequency). In addition, pulse input corresponding to the various sensors also can be manufactured.

Up to 16 units can be housed in an installation base.



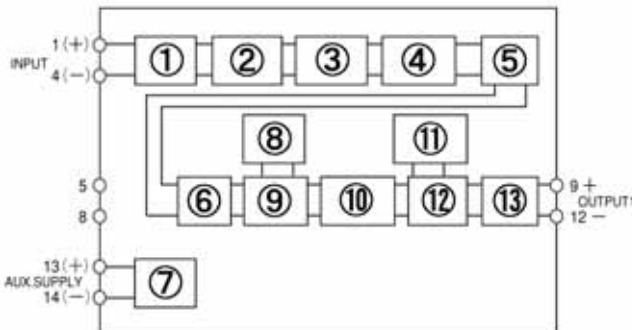
23 × 76 × 125mm/160g

## Feature

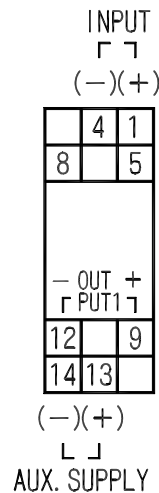
1. Compact and high withstand voltage.
2. Withstand voltage between input/output/auxiliary supply/outer case is AC2, 000V (50/60Hz) for 1 min..
3. Constant voltage/current output type. No need to adjust the product if it operates within load resistance range.
4. A LED can confirm status of electric power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

## Block Diagram

## Connection diagram (socket)



- Input circuit
- Zero-cross converter
- Frequency-phase-locked loop circuit
- One-shot multi-vibrator
- Smoothing circuit
- Constant voltage circuit
- Insulated power source circuit
- Oscillating circuit
- Pulse width modulation circuit
- Photo coupler insulation
- Reference voltage
- Pulse width demodulation circuit
- Output circuit



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## Specification

How to specify

Type name

Specification code

FSGT - [ ] [ ] [ ] [ ] X [ ] [ ] 0

Kind of input	Input frequency	Normal operating voltage range (input resistance)	1st Output (load resistance)	Auxiliary supply	Power fuse	Common specification
[1]: Sine wave input	[A]:0-33.3Hz [B]:0-40Hz [C]:0-50Hz [D]:0-55Hz [E]:0-60Hz [F]:0-65Hz [G]:0-66.6Hz [H]:0-100Hz [I]:0-120Hz [J]:0-166.6Hz	<b>Sine wave input</b> [1]: 1-25V (approx.25k ) [2]: 2-50V (approx.50k ) [3]:5-110V (approx.110k ) [4]:10-220V (approx.220k )	[3]:DC0-5V ( 600 ) [4]:DC0-10V ( 2k ) [5]:DC1-5V ( 600 )  [A]:DC0-1mA ( 10k ) [B]:DC0-5mA ( 2k ) [C]:DC0-10mA ( 1k ) [D]:DC0-16mA ( 600 ) [E]:DC1-5mA ( 3k ) [F]:DC4-20mA ( 750 )	[F]: AC/DC80-264V Rated Voltage AC100/110V 50/60Hz AC200/220V 50/60Hz DC100/110V  [5]:DC24V (DC19-30V)	[1]:without fuse [2]:with fuse	Conversion accuracy: ± 0.4% (within 10-100% of output)  Temperature characteristics: 0.4%/10  Response time: 0.5s/90% (input 200Hz) 1.0s/90% (input<200Hz)  Output ripple: 1%p-p (when input 10%)  Consumption VA: At AC110V: 3.5VA At AC220V: 4.5VA At DC110V: 2W At DC24V: 2.5W  Weight: Without socket: approx.130g With socket: approx.160g
[A]: Pulse input	[K]:0-200Hz [L]:0-333.3Hz [M]:0-500Hz [N]:0-1kHz	<b>Pulse input</b> [A]:5Vp-p (approx.5k ) [B]:10Vp-p (approx.10k ) [C]:12Vp-p (approx.12k ) [D]:15Vp-p (approx.15k ) [E]:24Vp-p (approx.24k )				
[Z]:other than those above *1 (See product range)	[Z]:other than those above *1 (See product range)	[Z]:other than those above *1 (See product range)	[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
Kind of input: consult with us for input other than those above. Input frequency: 30Hz-10kHz *2 Normal operating voltage range: AC10V-250V 5Vp-p-35Vp-p	Current output: 1mA-20mA Voltage output: 4V-10V

\*2 Input frequency: over 1.1 kHz, but not more than 10 kHz is subject to special handling.