§Small-sized plug-in transducer§

1 output type

Potentiometer transducer

FSRT

Application

Replaces mechanical displacement of an angle or a position with resistance value change of a potentiometer, inputs the resistance change, then insulates and converts it into a DC signal proportional to the change. Up to 16 units can be housed in an installation base.

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. Compatible with resistance range 100Ω - $10k\Omega$ of a potentiometer.
- 4. Constant voltage/current output type. No need to adjust the product if it operates within load resistance range.
- 5. A LED can confirm status of electric power applied.



 $23 \times 76 \times 125$ mm/130g

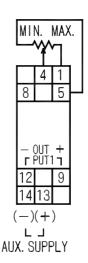
How to adjust

Please adjust output ZERO VR/SPAN VR of front VR in accordance with the potentiometer you actually Use. Variable range of output ZERO VR/SPAN VR are as follows. (ZERO VR: 0-50% of nominal resistance value, SPAN VR: 50-100% of nominal resistance value)

Block Diagram

Specified voltage circuit
Input amplifying circuit
Insulated power source circuit
Oscillating circuit
Pulse width modulation circuit
Photo coupler insulation
Reference voltage
Pulse width demodulation circuit
Output circuit
Potentiometer

Connection diagram (socket)

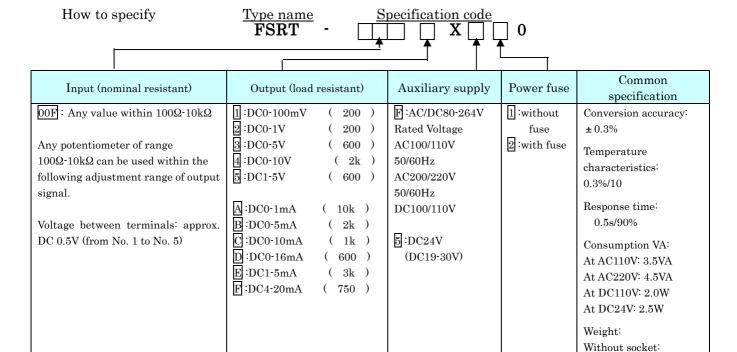


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Specification



Product Range (including special handling)

ZZZ: other than those above *1

(See product range)

Input	Output
Nominal resistance value:	Current output: -5mA-20mA
50Ω - 10 k Ω	Voltage output: -10V-10V

Input: Nominal resistance value 50-99.99 Ω is subject to special handling. (Conversion accuracy $\pm 0.3\%$) Output: Plus/minus output is subject to special handling.

Adjustment range of output signal

Input form ZERO adjustment range: 0-50% of nominal resistance value

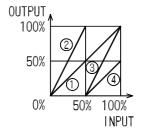
00F (can be changed from the front of converter)

SPAN adjustment range: 50-100% of nominal resistance value

Z :other than those above *1

(See product range)

(can be changed from the front of converter)



ZERO.....0%, SPAN.....100% Standard ZERO.....0%, SPAN.....50%

ZERO.....50%, SPAN.....50% (parallel shift of

ZERO.....50%, SPAN.....100% (parallel shift of

* Output value can be adjusted to zero against any input value between 0-50%.

Because this device is potential-free type, factory preset input is $0-10k\Omega$; factory preset output is indicated in graph above (standard).

approx.100g

With socket:

approx.130g

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