This converter takes in an analog current or voltage, and outputs a pulse having a frequency that is proportional to its input value. This converter is highly suitable for adding up analog flow rate signals or electrical energy. Its output signal form is compatible with electronic or electromagnetic counters. The converter has its input and output isolated by a photocoupler.

## Features

- The output pulse frequency can be specified between 0.00278 HzDf ( 10 pulses $/ \mathrm{h} \cdot \mathrm{fs}$ ) and 32 KHzOfs .
- Equipped with an operation indicator LED synchronized with the output pulse.
- The shutdown value can be set freely ( $0-10 \%$ fs).
- An LED indicates the shutdown operation.
- Plug-in design enables mounting on DIN rails or panel installation.
Models WVP-VF and WVP-VS have been modified to this model.



## Specification

Input signal：
Output signal：
－Type E：
－Type F：
－Type G：

Output frequency：
Monitor output：
Accuracy：
Response time：

Zero \＆span adjustment： Influence of ambient temperature：
Isolation：
Insulation resistance：
Dielectric strength：

DC voltage，DC current
Pulse frequency
One－shot output of approx． 100 msec ON－time．
Rectangular wave with $50 \%$ duty．
One－shot output of approx． 100 msec ON－time．
Service life of contacts：Mechanical： 100 million operations
Electrical：200，000 operations
0.00278 Hz fs（ 10 pulses $/ \mathrm{h}$ ）to 32 KHz fs

For check of input，and zero \＆span adjustment of output
$\pm 0.1 \%$ fs（at $23^{\circ} \mathrm{C}$ ）
Inputs of less than $1 \mathrm{~V} \square$ fs and less than $20 \mathrm{~mA} \square \mathrm{fs}$ ：
$10 \mathrm{msec}+1$／fout（fout：Output frequency）
$1 \mathrm{msec}+1 /$ fout for other than the above
$\pm 5 \%$ fs each
$\pm 0.15 \% \mathrm{fs} / 10^{\circ} \mathrm{C}$
Between the input／monitor，output and power supply terminals
$100 \mathrm{M} \Omega$ or more with a 500 VDC megger between the input／monitor，output and power supply terminals
2,000 VAC for 1 minute between the input／monitor，output and power supply terminals
Operating temperature and humidity：-5 to $+60^{\circ} \mathrm{C}, 90 \%$ RH or less（without condensation or icing）
Warm－up time：
Supply voltage：
Power consumption：
Output shutdown：

30 minutes（until attaining the prescribed accuracy）
The function starts working within 2 seconds of power－on． $100 / 110 / 200 / 220 \mathrm{VAC}, 50 / 60 \mathrm{~Hz}$（to be specified），or $24 \mathrm{VDC} \pm 10 \%$ Approx．4．5 VA（AC），approx． $120 \mathrm{~mA}(24 \mathrm{DC})$
This function forcibly cuts off output when the input signal falls below a preset value．The operation point is set to $0-10 \%$ fs by a trimmer，and the operation can be monitored by an indicator LED．

## Output Waveform

Type F

Types E，G

$$
\mathrm{ON}^{10}
$$

## Explanation of Terminals



