

ANALOG PULSE TRANSDUCER

VFTP2 – □□□

Use

Inputs a DC signal of electric power or a current transducer, and converts the signal into a pulse of proportional frequency.



VFTP2 -915
(80 × 50 × 133mm/400g)

Features

1. Either one of open collector output, voltage output and contact output is selectable as output signal method. In addition, in the case of AC auxiliary supply and open collector output, product equipped with a power source for external relay's (DC24V, 40mA MAX) is manufacturable.
2. Function of cutting output against low input 1-10%.
3. Impulse withstands voltage 5kV, 1.2/50µs (between electric circuit and earth) positive/ negative polarity 3 times each is guaranteed.

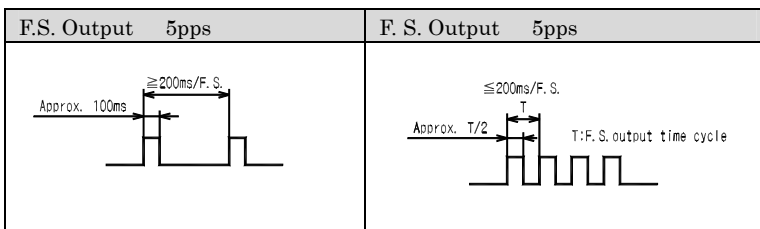
Specification

Kind of input (input resistance)	Output signal method	Auxiliary supply	Common specification
①: 0-1V (approx.1MΩ) ②: 0-5V (approx.1MΩ) ③: 0-10V (approx.1MΩ) ④: 1-5V (approx.1MΩ) ⑤: 0-1mA (approx.100Ω) ⑥: 0-5mA (approx.100Ω) ⑦: 0-10mA (approx.100Ω) ⑧: 0-16mA (approx.100Ω) ⑨: 4-20mA (approx.100Ω) ⑩: other than those above	①: Voltage pulse 10Vp (load 2k) ②: Tr. open collector(O.C.) DC48V, 100mA ③: 1a contact (non-voltage contact) DC30V,2A ④: With power source for external relay. Tr. open collector(O.C.) DC24V, 40mA MAX, in the case of AC auxiliary supply only,	①: AC100V+10%, -15% 50/60Hz ②: AC110V+10%, -15% 50/60Hz ③: AC200V+10%, -15% 50/60Hz ④: AC220V+10%, -15% 50/60Hz ⑤: DC24V+10%, -15% ⑥: DC48V+10%, -15% ⑦: other than those above	Tolerance: ± 0.25% Response time: $100\text{ms} + \frac{1}{\text{Output frequency}}$ Consumption VA: AC power source:2.5VA DC power source:3W With power source for external relay AC power source:3.5VA Weight: AC power source:500g DC power source:400g

Output pulse number

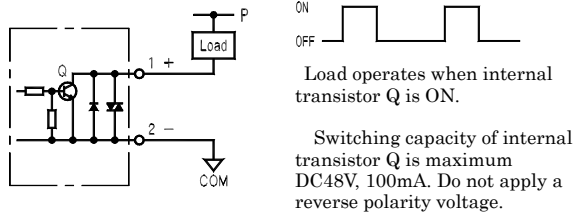
F.S output of transistor open collector output, voltage pulse output is 0.004306-277.8pps; F.S output of 1a contact output, transistor open collector output with power source for external relay is 0.00001667-1.000pps.

Output pulse width

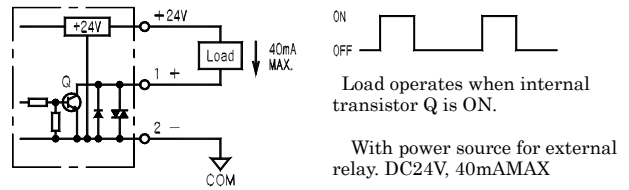


Block diagram according to output

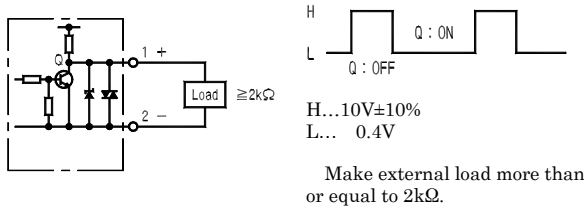
At the time of Tr. open collector output



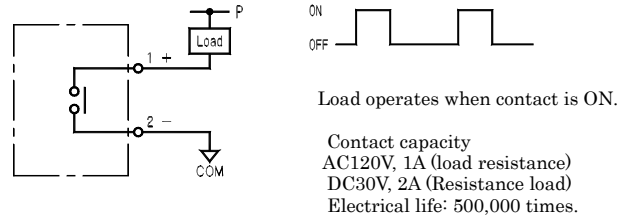
At the time of Tr. open collector output with power supply for external relay.



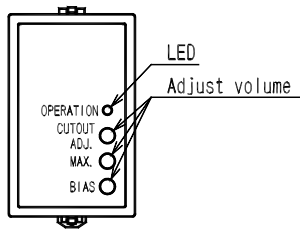
At the time of voltage pulse output



At the time of 1a contact output



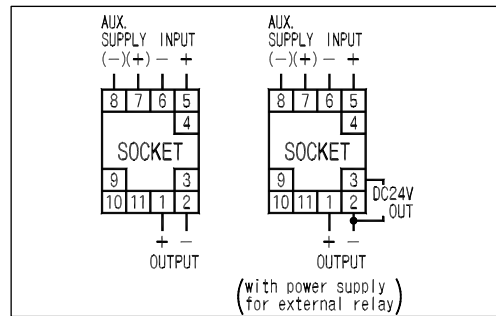
Block diagram of front panel



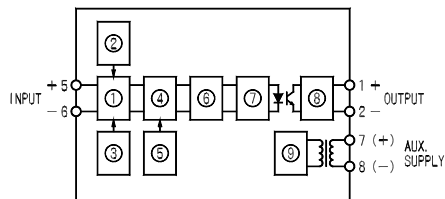
Output cut against low input
Adjusts output to zero with CUTOUT ADJ/VR against 1-10% of rated input.

OPERATION LED
LED turns off during output cut against low input. LED turns on during pulse output. (Green)
It turns on when there is an input which value is greater than low input cut value.

Connection diagram



Block diagram



- Scaling
- External span VR
- External bias VR
- VIF conversion
- Cutout ADJ.
- 2n frequency dividing
- Pulse width
- Output circuit
- Power source

Purchase specifications

Item to specify	Type
	VFTP2 - 9 1 5
	↑ Input ↑ Output signal method ↑ Auxiliary supply
Number of output pulse in pps	
Cut value for low input (1-10%)	
It shall be 1% if not being specified.	
Please specify output pulse number by 4 effective digits.	
For example: 0.2778pps in the case of 0.27777...pps	