VOLTAGE PULSE TRANSDUSER

CVFTP1 - ☐☐☐

CVFTP1-C711
(80×50×133mm/500g)

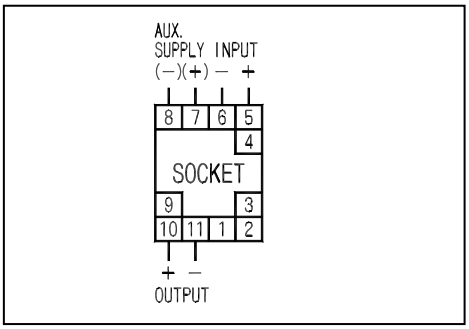
■ Use

A transducer which converts a DC input signal into a unit pulse. Please use the device by combining it with either one of open collector, voltage pulse, relay contact and photo-MOS relay output according to application. Also, the device has the function to cut the output pulse at the time of a low input as standard equipment. Setting of the frequency of output pulse, pulse width, output cut value at the time of a low input are possible by using a programming unit (type CCM-1).

■ Features

1. Constant voltage/current output.
2. Withstand voltage between electric circuit and outer case
   AC2, 000V (50/60Hz), AC1, 500V (50/60Hz) for 1 minute between input/output and auxiliary supply, or AC1, 500V (50/60Hz) for 1 minute between input and output.
3. Plus/minus input/output is not manufacturable.
4. Impulse withstands voltage 5kV, 1.2/50μs between electric circuit and outer case is guaranteed.

■ Connection diagram



■ Specification

Input (input resistance)	Output (load resistance)	Auxiliary supply	Common specification
1 : DC0-10mV (approx.1MΩ) 2 : DC0-50mV (approx.1MΩ) 3 : DC0-60mV (approx.1MΩ) 4 : DC0-100mV (approx.1MΩ) 5 : DC0-1V (approx.1MΩ) 6 : DC0-5V (approx.1MΩ) 7 : DC0-10V (approx.1MΩ) 8 : DC1-5V (approx.1MΩ) C1 : DC0-10μA*1 (100mV) C2 : DC0-100μA (100mV) C3 : DC0-1mA (approx.100Ω) C4 : DC0-5mA (approx.100Ω) C5 : DC0-10mA (approx.100Ω) C6 : DC0-16mA (approx.100Ω) C7 : DC4-20mA (approx.100Ω) 00 : other than those above	1 : voltage pulse 10Vp (≧2kΩ) 2 : open collector DC48V, 100mA MAX. 3 : no-voltage 1a contact DC30V, 200mA 5,000,000 times (resistance load) AC125V, 200mA 2,000,000 times (COSφ=1) 4 : Photo MOS relay AC/DC125V, 70mA MAX. (resistance load)	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%) 0 : other than those above	Tolerance:±0.25% *2 (% against output span) Consumption VA: AC power source:2.5VA DC power source:3.0W Weight: AC power source:500g DC power source:400g

*1. Circuit voltage: ≦15V for an input of 10μA. *2. Tolerance becomes ±0.5% when input voltage is less than 50mV; input current is less than 100μA.

Output range

Mark	Output signal (allowable load)	Range of output frequency
1	Voltage pulse 10Vp (load≧2kΩ)	10p/h-36,000p/h (0.002778Hz-10Hz) 3:≦3,600P/h (1Hz)
2	Open collector DC48V, 100mA MAX.	
3	No-voltage 1a contact	
4	Photo-MOS relay AC/DC125V, 70mA MAX.	

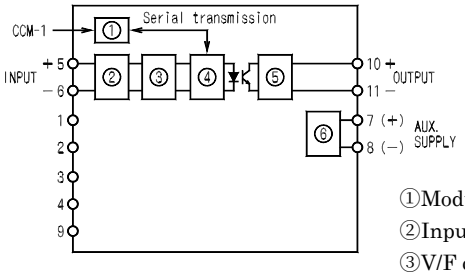
● Factory preset

Products are shipped in the following setting.
(Can be changed by specification)

PARAMETER	
No.	DATA
P	3,600p/h
C	1.0%
T	100ms

Mark	Name	Setting range
P	Number of the output pulse	10P/h-36, 000P/h However, 1a contact: MAX.3, 600P/h
C	Low input cut value	0.0-20.0%
T(1)	Output pulse width	50-300ms

■ Block diagram



①Modular jack
②Input circuit
③V/F circuit
④CPU operational circuit
⑤Output circuit
⑥Insulated power source circuit

■ Purchase specifications

●Item to specify

Type

CVFTP1 - C 7 1 1

Input Output Auxiliary supply