ULTRASLOW PULSE TRANSDUCER

UGTP2 - □□□

■ Use

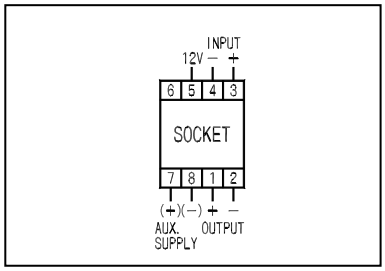
Converts an input into a DC signal in proportion to input pulse number, and outputs it. Input signal method is selectable from open collector, voltage pulse and 1a contact.

UGTP2-1F1
(80×50×123mm/500g)

■ Features

1. High accuracy transducer with tolerance of ±0.25%
2. Security design to have withstood voltage AC2, 000V between input, output and power source.
3. Function of slowing down output when input pulse stops.
4. Function of cutting low input frequency. (If cut value is not specified, it does cut when input frequency is equal to or less than 0.5% and returns at 1 %.)
5. By sufficient derating of parts used and reduction of internal heat generation, a long product life is guaranteed.
6. Product with a selector to switch an output between DC4-20mA/DC1-5V is manufacturable.

■ Connection diagram

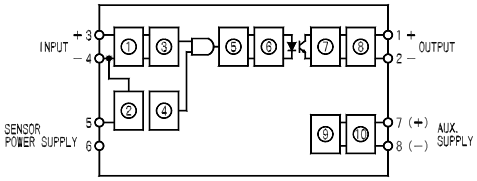


■ Specification

Input signal method	Output (load resistance)	Auxiliary supply	Common specification
1 : Open collector DC12V, 30mA 2 : Voltage pulse 50Vp (≧12kΩ) 3 : Non-voltage contact DC12V, 30mA 0 : other than those above	1 : DC0-100mV (≧200Ω) 2 : DC0-1V (≧200Ω) 3 : DC0-5V (≧1kΩ) 4 : DC 0-10V (≧2kΩ) 5 : DC1-5V (≧1kΩ) A : DC0-1mA (≦12kΩ) B : DC0-5mA (≦2.4kΩ) C : DC0-10mA (≦1.2kΩ) D : DC0-16mA (≦750Ω) E : DC1-5mA (≦3kΩ) F : DC4-20mA (≦750Ω) H : DC4-20mA (≦800Ω) DC1-5V (≧250kΩ) SW switching 0 : other than those above	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% Sensor power: DC12V±10%, 30mA Consumption VA: AC power source:2.5VA DC power source:3.0W Weight: AC power source:500g DC power source:400g

● Open of current output: even if the current output terminal is used in a state of regular open, there is no problem. Also, a voltage of approx. 31V occurs on the output terminal.

■ Block diagram



①Input circuit
②Constant voltage circuit
③Input pulse width fixation circuit
④Reference block
⑤Pulse counter
⑥CPU operational circuit
⑦Pulse width demodulation
⑧Output part
⑨Power source circuit
⑩Insulation transformer

■ Purchase specifications

●Item to specify

Type
UGTP2 - 1 F 1
Input signal method
Output
Auxiliary supply

●Number of output pulse in pps
●Cut value for low input (1-10%)
It shall be 1% if not being specified.
(cut when lower than or equal to 0.5%, returns at 1%)

●Common specification

Range of input pulse number: minimum range 0-0.01pps, maximum range 0-50pps.
Input pulse width: 30-80% of duty ratio of rated input frequency.

●Open collector input

Detection level: ON ≦200Ω
OFF ≧100kΩ

●Voltage input

Detection level: H level 5-50V
L level 0-2V

●No-voltage 1a contact input

Detection level: ON ≦200Ω
OFF ≧100kΩ