REVERSE ISOLATOR

RVTP2 - □□□

RVTP2-C7F5
(80×50×123mm/300g)

■ Use

Converts and outputs various kinds of DC input and output signals into reverse relationship.

■ Features

1. Constant voltage/current output
2. Withstand voltage between input, output, auxiliary supply and outer case (earth) is AC2, 000V (50/60Hz), complete insulation for 1 minute.
3. Input/output line surge protection (2,000A, 8/20μs, positive/negative polarity)

■ Specification

Input (input resistance or voltage drop)		Output (load resistance)	Auxiliary supply	Common specification
A1 : DC0-10mV (approx.1MΩ)	C1 : DC0-10μA (100mV) *1	1 : DC100-0mV (≧200Ω)	1 : AC100V±10%, 50/60Hz	Tolerance: ±0.25% *2
A2 : DC0-50mV (approx.1MΩ)	C2 : DC0-100μA (100mV)	2 : DC1-0V (≧200Ω)	2 : AC110V±10%, 50/60Hz	Response time: ≦0.5sec./99%
A3 : DC0-60mV (approx.1MΩ)	C3 : DC0-1mA (approx.100Ω)	3 : DC5-0V (≧1kΩ)	3 : AC200V±10%, 50/60Hz	Consumption VA:
A4 : DC0-100mV (approx.1MΩ)	C4 : DC0-5mA (approx.100Ω)	4 : DC10-0V (≧2kΩ)	4 : AC220V±10%, 50/60Hz	AC power source:3VA
A5 : DC0-1V (approx.1MΩ)	C5 : DC0-10mA (approx.100Ω)	5 : DC5-1V (≧1kΩ)	5 : DC24V±10%	DC power source:3.5W
A6 : DC0-5V (approx.1MΩ)	C6 : DC0-16mA (approx.100Ω)	6 : DC±5V (≧1kΩ)	0 : other than those above	Weight:
A7 : DC0-10V (approx.1MΩ)	C7 : DC4-20mA (approx.100Ω)	7 : DC±10V (≧2kΩ)		AC power source:400g
A8 : DC1-5V (approx.1MΩ)	D1 : DC±10μA (±100mV)*1	A : DC1-0mA (≦10kΩ)		DC power source:300g
B1 : DC±10mV (approx.1MΩ)	D2 : DC±100μA (±100mV)	B : DC5-0mA (≦2kΩ)		
B2 : DC±50mV (approx.1MΩ)	D3 : DC±500μA (±100mV)	C : DC10-0mA (≦1kΩ)		
B3 : DC±60mV (approx.1MΩ)	D4 : DC±1mA (approx.100Ω)	D : DC16-0mA (≦600Ω)		
B4 : DC±100mV (approx.1MΩ)	D5 : DC±5mA (approx.100Ω)	E : DC5-1mA (≦3kΩ)		
B5 : DC±1V (approx.1MΩ)	D6 : DC±10mA (approx.100Ω)	F : DC20-4mA (≦750Ω)		
B6 : DC±5V (approx.1MΩ)	00 : other than those above	0 : other than those above		
B7 : DC±10V (approx.1MΩ)				

*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.

● 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. 25V occurs on the output terminal.

● Impulse withstand voltage

Impulse withstands voltage between electric circuit and outer case (earth) 5kV, 1.2/50μs, and positive/negative polarity 3 times each is guaranteed.

● Option: surge absorber (5kV, 1.2/50μs positive/negative polarity 3 times each.)

When an inductive lightning surge occurs from input or output side, this device absorbs the surge and protects connected equipments.

However, the device is not necessary if the connected equipment is protected by an arrester or suchlike.

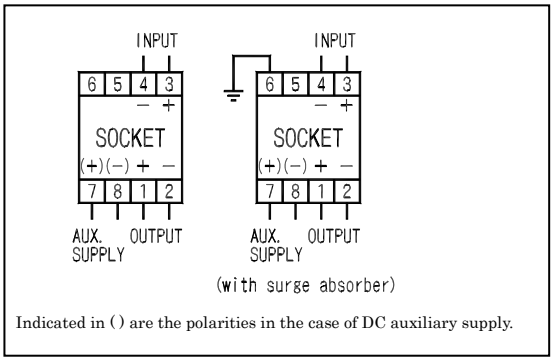
● Built-in ripple filter

Even if a ripple of single-phase AC full rectification wave (50/60Hz) degree is included in input wave, it still converts the wave into a smoothed DC signal. Please consult with us for special wave patterns such as an inverter.

● UR-1 precise resistance unit (selling separately)

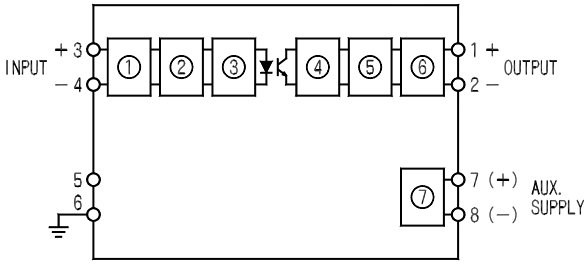
Please use a UR-1 combined with an insulated transducer of voltage input. When changing the insulated transducer in a hot line state at the time of current input, if measures against open are necessary, connect UR-1 to socket and convert it into a voltage signal before using it. (UR-1, the resistance specified)

■ Connection diagram



Indicated in ( ) are the polarities in the case of DC auxiliary supply.

■ Block diagram



①Low-drift amplifying circuit
②Low limit circuit
③Pulse width modulation circuit
④Pulse width demodulation circuit
⑤Output circuit
⑥Output line surge protection circuit
⑦Insulated power source circuit

■Purchase specifications

●Item to specify