§ PLUG-IN TRANSDUCER § 1 OUTPUT TYPE

SIGNAL TRANSDUCER

MULTIPLYING TRANSDUCER

MTP1 -

Use

Multiplies two DC signals and outputs a DC signal equivalent to the product.

Features

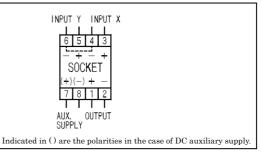
- 1. Constant voltage/current output.
- Withstand voltage between electric circuit and outer case, and between input/output and auxiliary supply are AC1, 500V (50/60Hz) for 1 minute, or between input and output is AC1, 500V (50/60Hz) for 1 minute.
- 3. \bigcirc of Input X and Y are conducted inside the device.
- 4. Plus/minus input is not manufacturable.
- 5. Impulse withstands voltage 5kV, 1.2/50µs (between electric circuit and outer case), and positive/negative polarity 3 times each is guaranteed.

Specification



MTP1-A6F5 (80 × 50 × 121mm/350g)

Connection diagram



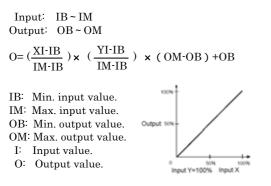
Input (input resistance or voltage drop)		Output (load resistance)	Auxiliary supply	Common specification
A1 : DC0-10mV (approx.1MΩ)	C1 : DC0-10 µ A (100mV) *1	1:DC0-100mV (200)	1 : AC100V±10%,	Tolerance: ± 0.25% *2
A2 : DC0-50mV (approx.1MΩ)	C2 : DC0-100 µ A (100mV)	2:DC0-1V (200)	50/60 Hz	Response time:
A3 : DC0-60mV (approx.1MΩ)	C3 : DC0-1mA (approx.100Ω)	3 : DC0-5V (1k)	2 : AC110V±10%,	0.5sec./99%
A4 : DC0-100mV (approx.1MΩ)	C4 : DC0-5mA (approx.100Ω)	4 : DC 0-10V (2k)	50/60 Hz	Consumption VA:
A5 : DC0-1V (approx.1MQ)	C5 : DC0-10mA (approx.100Ω)	5 : DC1-5V (1k)	3 : AC200V±10%,	AC power source:4VA
$A6$: DC0-5V (approx.1M Ω)	C6 : DC0-16mA (approx.100Ω)	A:DC0-1mA (10k)	50/60 Hz	DC power source:4W
A7 : DC0-10V (approx.1MΩ)	C7 : DC4-20mA (approx.100Ω)	\mathbf{B} : DC0-5mA (2k)	4 ∶ AC220V±10%,	Weight:
A8 : DC1-5V (approx.1MΩ)	00 : other than those above	C:DC0-10mA(1k)	50/60 Hz	AC power source:700g
		\underline{D} : DC0-16mA (600)	5: DC24V±10%	DC power source:350g
		E: DC1-5mA(3k)	$6: DC48V\pm 10\%$	
		F: DC4-20mA (750)	0 : other than	
		0 : other than those above	those above	

*1. Circuit voltage 15V for an input of 10 μ A. *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. *3. Please specify the identical input X and Y.

UR-1 precise resistance unit (selling separately)

Please use a UR-1 combined with a multiplying transducer of voltage input. When changing the multiplying 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)

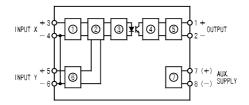
Operational expression



Input/output relationship graph

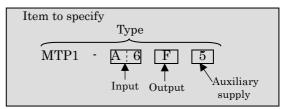
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Block diagram



X input circuit Multiplying circuit Pulse width modulation circuit Pulse width demodulation circuit Output circuit Y input circuit Insulated power source circuit

Purchase specifications



Transducer Catalog e-98-099b