

## Current/Voltage transducer(Cassette type)

### HCS-C 1A~300A, HCS-VC 5V~ 800 V

It is used to measure DC or AC current(voltage) and output DC standard signal. The measured current on the primary side is electrically isolated from the output signal on the secondary side.

#### Feature:

Test frequency:DC,50Hz(400Hz)

Response time: less than 350mS

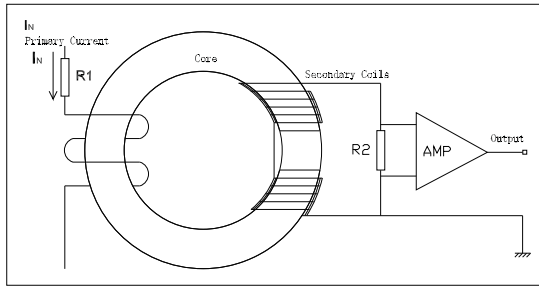
Linearity: 0.5%

No insertion loss measured

It is used to measure DC or AC current(voltage) and output DC standard signal

The primary current(voltage) is highly isolated from the secondary output signal

Low power consumption, single power supply, wide range of power supply



#### Working principle:

When the measured current flows through the conductor, a magnetic field in direct proportion to the current is generated around the conductor. The magnetic field is measured by the secondary coil, and its output voltage is proportional to the measured current. It is amplified and filtered by the electronic circuit and calibrated to the required standard signal, which accurately reflects the effective value of the primary current.

### HCS-C Series current transducer

Part No	Rated input current I <sub>N</sub> (A)	f(HZ)	I <sub>F</sub> (A)	V <sub>M</sub> (V)or I <sub>M</sub> (mA)	T <sub>a</sub> =25°C	Supply <sup>(1)</sup> V <sub>C</sub> (V)	I <sub>C</sub> (mA)	V <sub>i</sub> (KV)	T <sub>a</sub> (°C)	W(g)	Input hole mm	Fig No.
HCS-C*/#	1/2/3/4/5	AC	I <sub>N</sub> x120%	#	0.5%	24	60+I <sub>M</sub>	2.5	-25~+85	85	terminal	A
HCS-C*S*/#	1/5/10/20/50/100/200/300	AC	I <sub>N</sub> x120%	#	0.5%	24	60+I <sub>M</sub>	2.5	-25~+85	85	φ 20	B
HCS-C*D*/#	1/2/5/10	DC	I <sub>N</sub> x120%	#	0.5%	24	60+I <sub>M</sub>	2.5	-25~+85	85	terminal	A

### HCS-VC Series voltage transducer

Part No	Rated input voltage V <sub>N</sub> (V)	f(HZ)	V <sub>F</sub> (V)	V <sub>M</sub> (V)or I <sub>M</sub> (mA)	T <sub>a</sub> =25°C	Supply <sup>(1)</sup> V <sub>C</sub> (V)	I <sub>C</sub> (mA)	V <sub>i</sub> (KV)	T <sub>a</sub> (°C)	W(g)	Input hole mm	Fig No.
HCS-VC-*/#	5/10/50/100/300/500/800	AC	V <sub>N</sub> x120%	#	0.5%	24	60+I <sub>M</sub>	2.5	-25~+85	85	terminal	A
HCS-VC-*D/#	50/100/200/300/400/500	DC	V <sub>N</sub> x120%	#	0.5%	24	60+I <sub>M</sub>	2.5	-25~+85	85	terminal	A

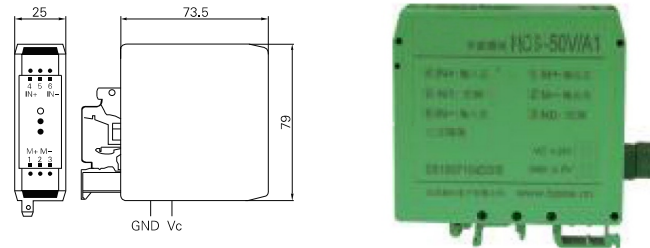
\* : Rated input current or voltage # : Rated output current or voltage

(1) Alternative power supply: V<sub>C</sub>=±5V,±12V,±15V,AC220V/50Hz

#	A0	A1	A2	V0	V1	V2
Output	0~20mA	4~20mA	0~10mA	0~5V	1~5V	0~10V

I <sub>N</sub>	Nominal current	V <sub>off</sub>	Offset voltage
V <sub>N</sub>	Nominal voltage	T <sub>d</sub>	Temperature drift
I <sub>p</sub>	Measuring range	L	Linearity
R <sub>M</sub>	Measuring resistance	T <sub>r</sub>	Response time
I <sub>M</sub>	Output current	f	Frequency bandwidth
V <sub>M</sub>	Output voltage	T <sub>a</sub>	Operating temperature
K <sub>N</sub>	Turns ratio	T <sub>s</sub>	Storage temperature
X	Accuracy	I <sub>C</sub>	Current consumption
V <sub>C</sub>	Supply voltage	R <sub>S</sub>	Secondary resistance
V <sub>i</sub>	Isolation voltage	R <sub>N</sub>	Primary resistance
I <sub>off</sub>	Offset current	W	Weight

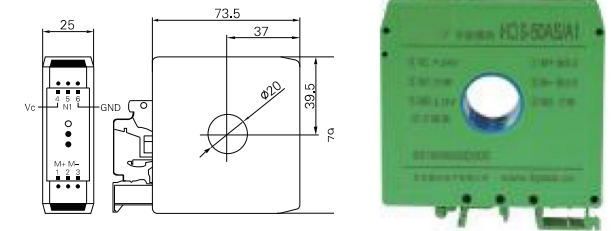
Fig A



#### Terminal

1--M+ output +	4--IN+ input +	VC-- supply +
2--M- output -	5--N1 NO	
3--N0	6--IN- input -	GND-- grounded

Fig B



#### Terminal

1--M+ output +	4--VC supply +
2--M- output -	5--N1 NO
3--N0	6--GND grounded