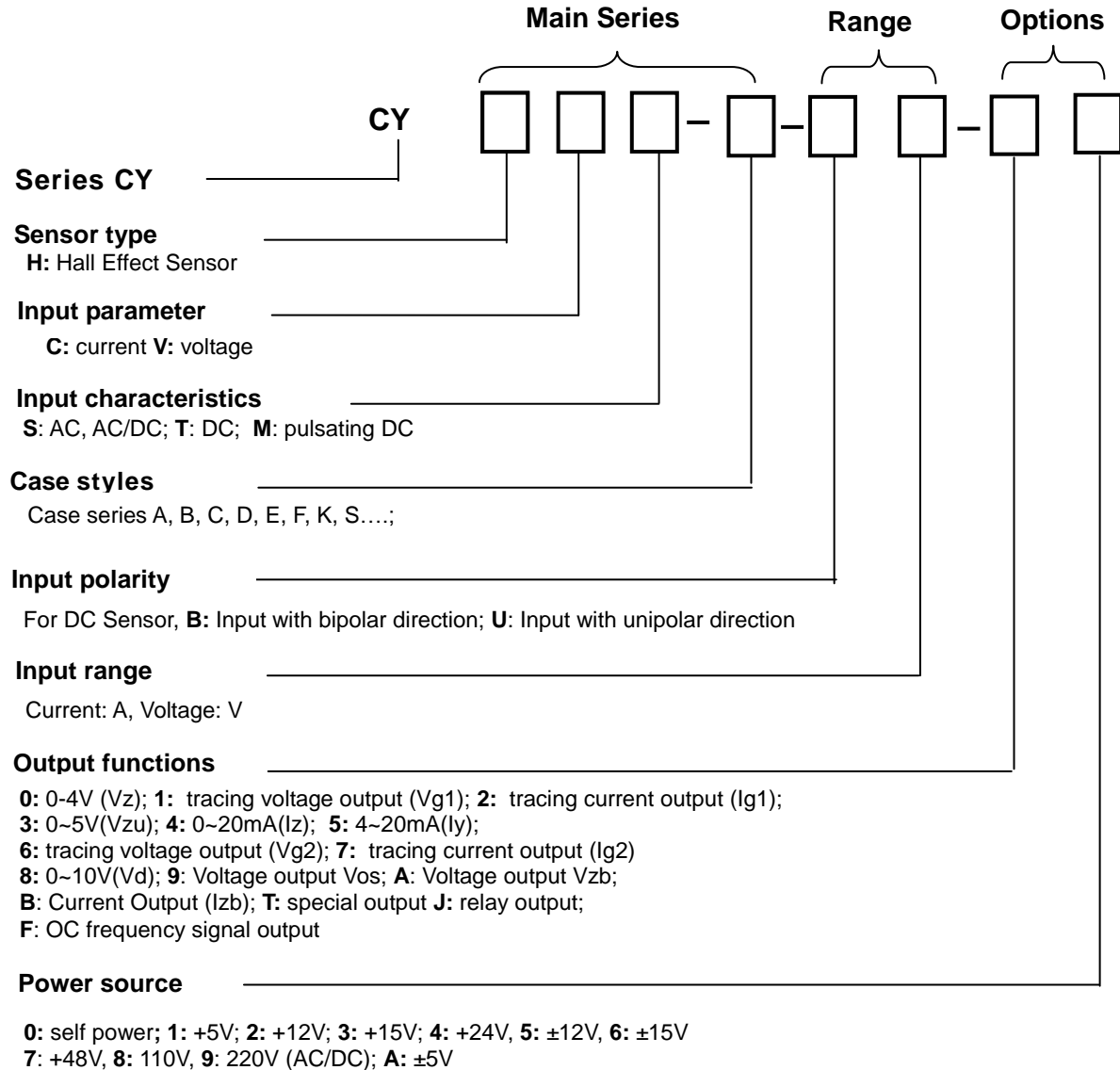


## Product Overview of Hall Effect Sensors/Transducers

### Part Number



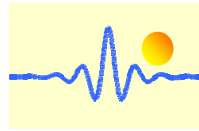
### Typical Examples:

**CYHCT-WS3-U100A-32:** Hall Effect DC Current Transducer, Output: 0-5VDC, Power Source: +12VDC, Case Style: S3 with Window Φ20mm, Input Range: 0-100ADC.

**CYHCT-WS3-B100A-32:** Hall Effect DC Current Transducer, Output: 0-5VDC, Power Source: +12VDC, Case Style: S3 with Window Φ20mm, Input Range: -100A ~ +100A DC.

**CYHCS-WF2-100A-35:** Hall Effect AC Current Transducer, Output: 0-5VDC, Power Source: ±12VDC, Case Style: E4 with Window Φ21mm, Input Range: 100A AC.

**CYHCS-WF2-100A-15:** Hall Effect AC/DC Current Transducer, tracing Output: 5V, Power Source: ±12VDC, Case Style: E4 with Window Φ21mm, Input Range: -100A ~ +100A AC/DC.

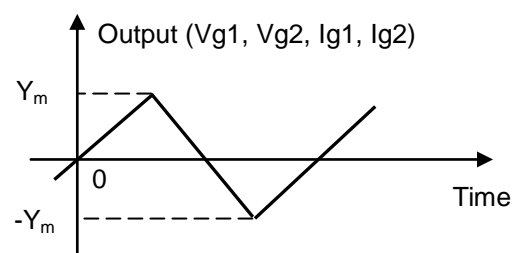
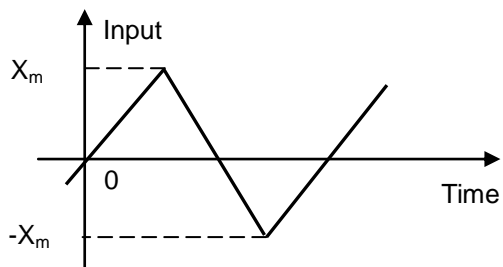


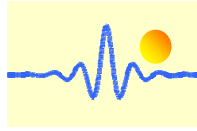
## Output Function Codes

Code	Symbol	Definition	Applications
0	Vz	DC Voltage Output	0-4V DC, can be connected direct to A/D converter, digit panel, indicator, PLC
1	Vg1	Tracing Voltage Output	5V ( $V_{p-p}$ ), suitable for AC/DC or peak value sampling system, quick response, high precision.
2	Ig1	Tracing Current Output	20mA ( $I_{p-p}$ ), suitable for AC/DC sampling and peak value sampling system, high precision, and quick response.
3	Vzu	DC Voltage Output	0-5V DC, can be connected direct to A/D converter, digit panel, indicator, PLC
4	Izu	DC Current Output	0-20mA DC, suitable for long distance signal transmission, resistance to interference.
5	Iy	DC Current Output	4-20mA DC, suitable for long distance signal transmission, resistance to interference.
6	Vg2	Tracing Voltage Output	4V ( $V_{p-p}$ ), suitable for AC/DC or peak value sampling system, quick response, high precision
7	Ig2	Tracing Current Output	20mA ~ 200mA ( $I_{p-p}$ ), suitable for AC/DC sampling and peak value sampling system, high precision, and quick response.
8	Vd	DC Voltage Output	0-10 V DC, can be connected direct to digit panel, indicator etc. (power source $\geq 15V$ ).
9	Vos	Tracing Voltage Output with Offset	+2.5VDC +/-1.0V or +2.5VDC +/-0.625V, suitable for single power supply systems
A	Vzb	DC Voltage Output	-5V ~ +5VDC, can be connected direct to A/D converter, digit panel, indicator, PLC
B	Izb	DC Current Output	-20mA ~ +20mADC, suitable for long distance signal transmission, resistance to interference.
F	F	OC frequency signal output	0~10 kHz frequency signal or custom frequency signal, photoelectric isolation OC output
J	J	Relay touch point	Use to inspect and offside alarm for AC/DC current and voltage
T	T	Special Output	Reserved for special output configurations.

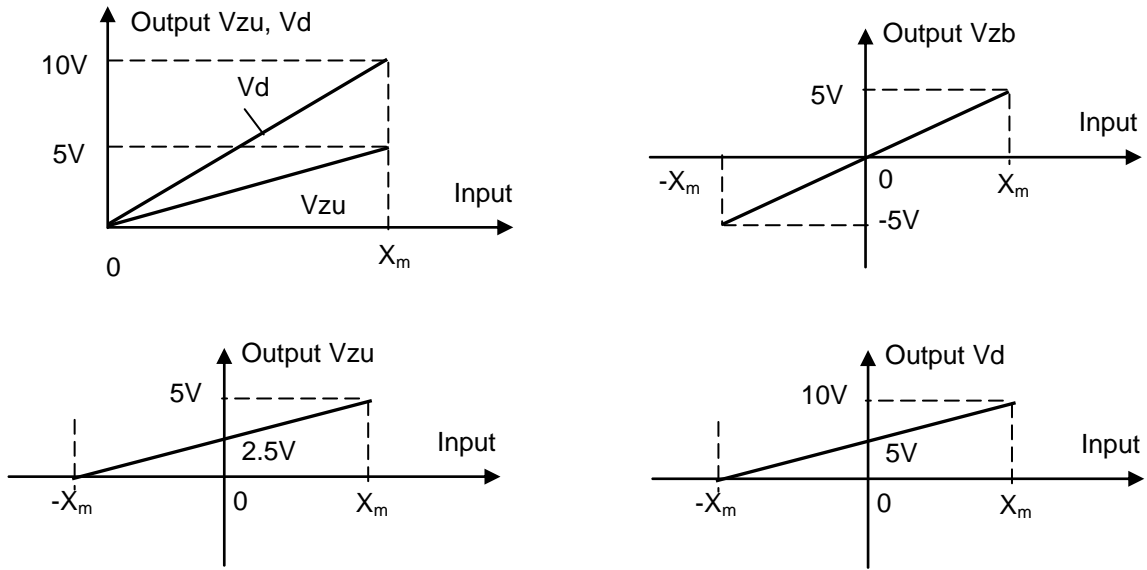
## Input / Output Graphs.

a) Tracing Voltage Output (Vg1, Vg2) or Tracing Current Output (Ig1, Ig2)

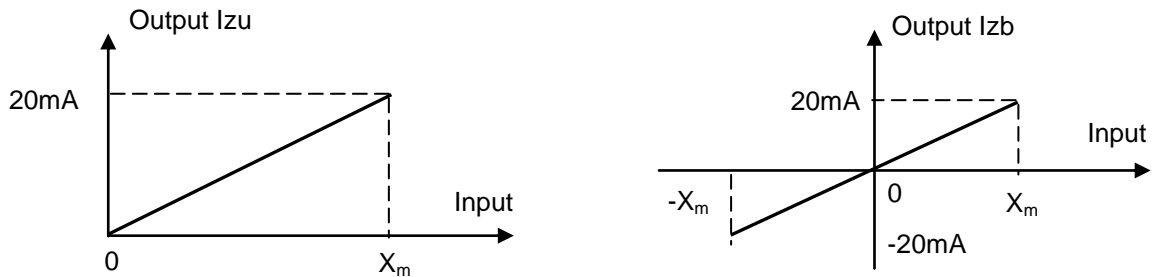




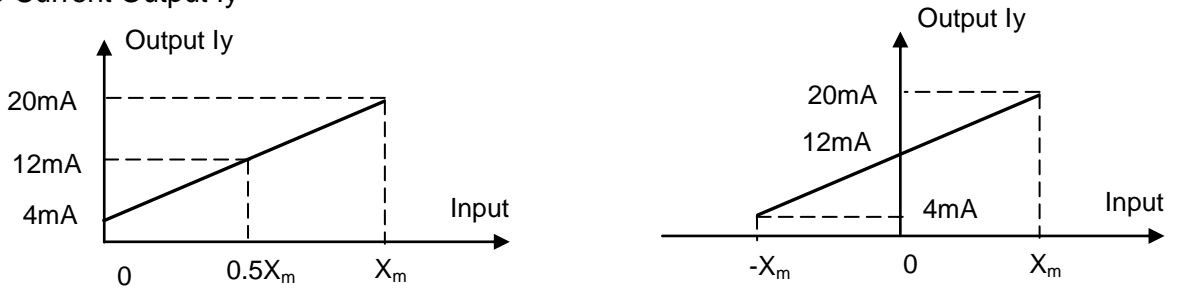
b) DC Voltage Output  $V_{zu}$ ,  $V_d$  and  $V_{zb}$



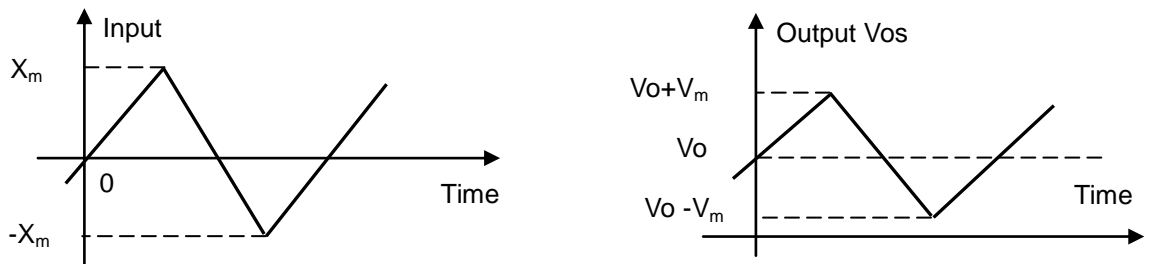
c) DC Current Output  $I_{zu}$  and  $I_{zb}$

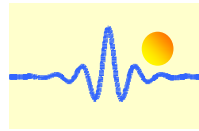


d) DC Current Output  $I_y$



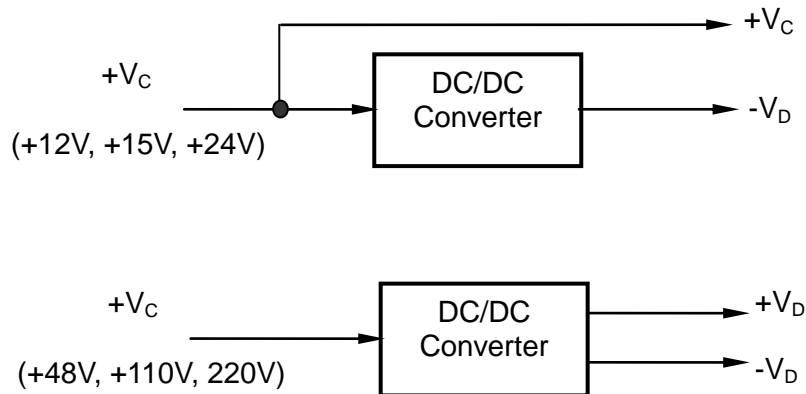
e) Tracing Voltage Output  $V_{os}$





## Output Signal Limitations of Sensors with Single Power Supply

Internal DC/DC Converting of Single Power Supply:



Power supply $V_C$	Power supply $V_D$	Output Signal
+12VDC	-6VDC	Not 0-10VDC and -10V~+10VDC, all other output signals are available
+15VDC	-6VDC	Not -10V ~ +10VDC, all other output signals are available
+24VDC	-15VDC	All output signals are available
$\pm 12$ VDC	x	Not -10V ~ +10VDC, all other output signals are available
$\pm 15$ VDC	x	All output signals are available
+48VDC	$\pm 15$ VDC or $\pm 24$ VDC	All output signals are available
+110VDC	$\pm 15$ VDC or $\pm 24$ VDC	All output signals are available
220V DC/AC	$\pm 15$ VDC or $\pm 24$ VDC	All output signals are available