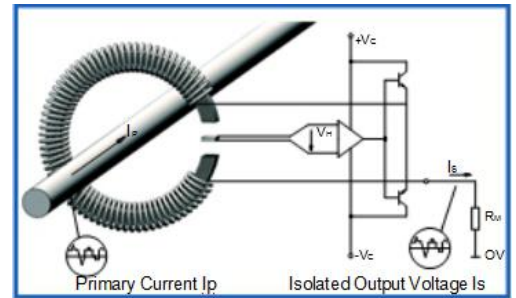


## Close loop hall current sensors

Close loop hall current sensors is a new generation of current sensor which applies hall effect principle, can measure direct current, alternating current, pulse and current of various irregular wave forms in electrical isolation conditions. Higher accuracy and linearity, short responding time and wide frequency band make it widely used in current monitoring devices, high current protection and other fields. The product has many other advantages: firm structure, low power consumption, small size, light weight, long lifetime, easy installation, vibration resistance, water vapor proof and dust proof, which assure convenient and reliable usage. And users can define the rated primary current and secondary rated output based on actual demand.

### Working Principle

The magnetic field produced by primary current  $I_p$  is balanced with the magnetic field produced by secondary coil current. The hall unit and auxiliary circuit produce secondary magnetic compensation current that can accurately response the primary current.



### Functions

- Wide frequency band
- Excellent linearity
- Good overall accuracy
- No insertion loss
- Quick response time
- Low temperature drift

Part No.	Normal Current IN (A)	Measuring Range IP (A)	Rated Output IOUT VOUT mA/V	Supply Voltage VC V	Frequency f kHz	Accuracy Ta=25°C %	Operating Temperature Ta °C	Isolation Voltage Vi kV	Responding Time μs	Window mm	Connectio n Figure NO.	Profile NO.
GWCS-25i	8	16	24	±12	0-100	0.5	-40...+85	2.5	<1	Φ4	1	1
	12	25	24									
	25	50	25									
GWCS-25i2	25	50	25	±12	0-100	0.5	-40...+85	2.5	<1	Φ8	1	2
GWCS-50i2	50	100	25	±12	0-100	0.5	-40...+85	2.5	<1	Φ8	1	2
GWCS-6i/SP1	6	19	2.5±0.625V	+5	0-100	0.5	-40...+85	2.5	<1	Φ4	2	1
GWCS-15i/SP1	15	48	2.5±0.625V	+5	0-100	0.5	-40...+85	2.5	<1	Φ4	2	1
GWCS-25i/SP1	25	80	2.5±0.625V	+5	0-100	0.5	-40...+85	2.5	<1	Φ4	2	1
GWCS-6i2/SP1	6	19	2.5±0.625V	+5	0-100	0.5	-40...+85	2.5	<1	Φ8	2	2
GWCS-15i2/SP1	15	48	2.5±0.625V	+5	0-100	0.5	-40...+85	2.5	<1	Φ8	2	2
GWCS-25i2/SP1	25	80	2.5±0.625V	+5	0-100	0.5	-40...+85	2.5	<1	Φ8	2	2
GWCS-0.25E	0.25	7.036	25	±12	0-100	0.5	-25...+85	2.5	<1	PCB	3	3
GWCS-0.5E	0.5	0.72	25	±12	0-100	0.5	-25...+85	2.5	<1	PCB	3	3
GWCS-1E	1	1.5	25	±12	0-100	0.5	-25...+85	2.5	<1	PCB	3	3
GWCS-1.5E	1.5	2.2	24	±12	0-100	0.5	-25...+85	2.5	<1	PCB	3	3
GWCS-2E	2	3	24	±12	0-100	0.5	-25...+85	2.5	<1	PCB	3	3
GWCS-2.5E	2.5	3.6	25	±12	0-100	0.5	-25...+85	2.5	<1	PCB	3	3
GWCS-5E	5	6	25	±12	0-100	0.5	-25...+85	2.5	<1	PCB	3	3



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Part No.	Normal Current IN (A)	Measuring Range IP (A)	Rated Output IOUT (mA) VOUT (V)	Supply Voltage VC (V)	Frequency kHz	Accuracy Ta=25°C %	Operating Temperature Ta (°C)	Isolation Voltage Vi (kV)	Responding Time μs	Window mm	Connection Figure NO.	Profile NO.
GWCS-25E	5	7	25	±12	0-100	0.5	-25...+85	2.5	<1	PCB	3	3
	6	9	24								3	
	8	12	24								3	
	12	18	24								3	
	25	36	25								3	
GWCS-50i3	50	80	50	±12	0-100	0.5	-25...+85	2.5	<1	15x7	4	4
GWCS-100i3	100	150	50	±12	0-100	0.5	-25...+85	2.5	<1	15x7	4	4
GWCS-50i5	50	80	50	±12	0-100	0.5	-25...+85	3	<1	Φ12	4	6
GWCS-100i5	100	150	100	±12	0-100	0.5	-25...+85	3	<1	Φ12	4	6
GWCS-50i6	50	80	50	±12	0-100	0.5	-25...+85	3	<1	Φ9.2	5	7
GWCS-100i6	100	150	150	±12	0-100	0.5	-25...+85	3	<1	Φ9.2	5	7

Part No.	Normal Current IN (A)	Measuring Range IP (A)	Rated Output IOUT (mA) VOUT (V)	Supply Voltage VC (V)	Frequency kHz	Accuracy Ta=25°C %	Operating Temperature Ta (°C)	Isolation Voltage Vi (kV)	Responding Time μs	Window mm	Connection Figure NO.	Profile NO.
GWCS-50C	50	75	50	±12~24	0-100	0.5	-25...+85	3	<1	Φ20	5	10
GWCS-100C	100	150	100	±12~24	0-100	0.5	-25...+85	3	<1	Φ20	5	10
GWCS-200C	200	300	100	±12~24	0-100	0.5	-25...+85	3	<1	Φ20	5	10
GWCS-300C	300	450	150	±12~24	0-100	0.5	-25...+85	3	<1	Φ20	5	10
GWCS-10C3	10	15	10	±12~24	0-100	0.5	-25...+85	3	<1	Φ12	5	8
GWCS-20C3	20	30	20	±12~24	0-100	0.5	-25...+85	3	<1	Φ12	5	8
GWCS-50C3	50	75	50	±12~24	0-100	0.5	-25...+85	3	<1	Φ12	5	8
GWCS-100C3	100	150	100	±12~24	0-100	0.5	-25...+85	3	<1	Φ12	5	8
GWCS-20C4	20	30	20	±12~24	0-100	0.5	-25...+85	3	<1	Φ15	5	9
GWCS-50C4	50	75	50	±12~24	0-100	0.5	-25...+85	3	<1	Φ15	5	9
GWCS-80C4	80	120	80	±12~24	0-100	0.5	-25...+85	3	<1	Φ15	5	9
GWCS-100C4	100	150	100	±12~24	0-100	0.5	-25...+85	3	<1	Φ15	5	9

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Part No.	Normal Current $I_n$ (A)	Measuring Range $I_p$ (A)	Rated Output $I_{OUT}$ mA $V_{OUT}$ V/D	Supply Voltage $V_c$ V/D	Frequency $f$ kHz/D	Accuracy $T_a=25^\circ C$	Operating Temperature $T_a$	Isolation Voltage $V_i$ kV/D	Responding Time $\tau$ ms/D	Window $\phi$ mm/D	Connection Figure NO.	Profile NO.
GWCS-150C4	150	225	75	$\pm 12 \sim 24$	0-100	0.5	-25...+85	3	<1	$\phi 15$	5	9
GWCS-200C4	200	300	100	$\pm 12 \sim 24$	0-100	0.5	-25...+85	3	<1	$\phi 15$	5	9
GWCS-50C5	50	100	50	$\pm 12 \sim 24$	0-100	0.5	-25...+85	3	<1	$\phi 25$	5	11
GWCS-100C5	100	150	100	$\pm 12 \sim 24$	0-100	0.5	-25...+85	3	<1	$\phi 25$	5	11
GWCS-200C5	200	300	100	$\pm 12 \sim 24$	0-100	0.5	-25...+85	3	<1	$\phi 25$	5	11
GWCS-300C5	300	450	150	$\pm 12 \sim 24$	0-100	0.5	-25...+85	3	<1	$\phi 25$	5	11
GWCS-100C6	100	150	100	$\pm 12 \sim 24$	0-100	0.5	-25...+85	3	<1	$\phi 30$	5	12
GWCS-200C6	200	300	100	$\pm 12 \sim 24$	0-100	0.5	-25...+85	3	<1	$\phi 30$	5	12
GWCS-300C6	300	450	150	$\pm 12 \sim 24$	0-100	0.5	-25...+85	3	<1	$\phi 30$	5	12
GWCS-300C7	300	450	100	$\pm 12 \sim 24$	0-100	0.5	-25...+85	6	<1	$\phi 35$	5	13
GWCS-500C7	500	750	100	$\pm 12 \sim 24$	0-100	0.5	-25...+85	6	<1	$\phi 35$	5	13
GWCS-500C8	500	750	100	$\pm 12 \sim 24$	0-100	0.5	-25...+85	6	<1	$\phi 45$	5	14
GWCS-1000C8	1000	1500	200	$\pm 12 \sim 24$	0-100	0.5	-25...+85	6	<1	$\phi 45$	5	14
GWCS-1000C9	1000	1500	200	$\pm 12 \sim 24$	0-100	0.5	-25...+85	6	<1	$\phi 50$	5	15
GWCS-1000C10	1000	1500	200	$\pm 12 \sim 24$	0-100	0.5	-25...+85	6	<1	$\phi 55$	5	16
GWCS-50G	50	75	50	$\pm 12 \sim 15$	0-100	0.5	-25...+85	2.5	<1	10x20	5	39
GWCS-100G	100	150	100	$\pm 12 \sim 15$	0-100	0.5	-25...+85	2.5	<1	10x20	5	39
GWCS-300D	300	450	100	$\pm 12 \sim 24$	0-100	0.5	-25...+85	5	<1	$\phi 30$	5	18
GWCS-500D	500	750	100	$\pm 12 \sim 24$	0-100	0.5	-25...+85	5	<1	$\phi 30$	5	18
GWCS-300D1	300	450	100	$\pm 12 \sim 24$	0-100	0.5	-25...+85	6	<1	$\phi 42$	5	19
GWCS-500D1	500	750	100	$\pm 12 \sim 24$	0-100	0.5	-25...+85	6	<1	$\phi 42$	5	19
GWCS-800D1	800	1200	160	$\pm 12 \sim 24$	0-100	0.5	-25...+85	6	<1	$\phi 42$	5	19
GWCS-1000D1	1000	1500	200	$\pm 12 \sim 24$	0-100	0.5	-25...+85	6	<1	$\phi 42$	5	19
GWCS-300D2	300	450	100	$\pm 12 \sim 24$	0-100	0.5	-25...+85	6	<1	$\phi 61$	5	20
GWCS-500D2	500	750	100	$\pm 12 \sim 24$	0-100	0.5	-25...+85	6	<1	$\phi 61$	5	20
GWCS-800D2	800	1200	160	$\pm 12 \sim 24$	0-100	0.5	-25...+85	6	<1	$\phi 61$	5	20
GWCS-1000D2	1000	1500	200	$\pm 12 \sim 24$	0-100	0.5	-25...+85	6	<1	$\phi 61$	5	20
GWCS-1500D2	1500	2250	300	$\pm 12 \sim 24$	0-100	0.5	-25...+85	6	<1	$\phi 61$	5	20
GWCS-2000D2	2000	3000	400	$\pm 12 \sim 24$	0-100	0.5	-25...+85	6	<1	$\phi 61$	5	20

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Part No.	Normal Current IN (A)	Measuring Range IP (A)	Rated Output IOUT $\dot{c}mA$ VOUT $\dot{c}VD$	Supply Voltage VC (V)	Frequency $\dot{c}KHZ \dot{D}$	Accuracy Ta= 25°C	Operating Temperature Ta	Isolation Voltage Vi	Responding Time $\dot{c}\mu s \dot{D}$	Window $\dot{c}mm \dot{D}$	Connection NO.	Profile NO.
GWCS-3x1P1	1	1.5	3x1	$\pm 15$	0-100	0.5	-25...+85	3	<1	3x $\Phi 10$	5	21
GWCS-3x5P1	5	7.5	3x5	$\pm 15$	0-100	0.5	-25...+85	3	<1	3x $\Phi 10$	5	21
GWCS-3x10P1	10	15	3x10	$\pm 15$	0-100	0.5	-25...+85	3	<1	3x $\Phi 10$	5	21
GWCS-3x5P3	5	7.5	3x5	$\pm 15$	0-100	0.5	-25...+85	3	<1	3x $\Phi 20$	5	23
GWCS-3x10P3	10	15	3x10	$\pm 15$	0-100	0.5	-25...+85	3	<1	3x $\Phi 20$	5	23
GWCS-3x20P3	20	30	3x20	$\pm 15$	0-100	0.5	-25...+85	3	<1	3x $\Phi 20$	5	23
GWCS-3x50P3	50	75	3x50	$\pm 15$	0-100	0.5	-25...+85	3	<1	3x $\Phi 20$	5	23
GWCS-3x100P3	100	150	3x50	$\pm 15$	0-100	0.5	-25...+85	3	<1	3x $\Phi 20$	5	23
GWCS-3x5P4	5	7.5	3x5	$\pm 15$	0-100	0.5	-25...+85	3	<1	3x $\Phi 15$	5	24
GWCS-3x10P4	10	15	3x10	$\pm 15$	0-100	0.5	-25...+85	3	<1	3x $\Phi 15$	5	24
GWCS-3x20P4	20	30	3x20	$\pm 15$	0-100	0.5	-25...+85	3	<1	3x $\Phi 15$	5	24
GWCS-3x50P4	50	75	3x50	$\pm 15$	0-100	0.5	-25...+85	3	<1	3x $\Phi 15$	5	24
GWCS-3x100P4	100	150	3x50	$\pm 15$	0-100	0.5	-25...+85	3	<1	3x $\Phi 15$	5	24
GWCS-3x20P5	20	30	3x20	$\pm 15$	0-100	0.5	-25...+85	3	<1	3x $\Phi 20$	5	25
GWCS-3x50P5	50	75	3x50	$\pm 15$	0-100	0.5	-25...+85	3	<1	3x $\Phi 20$	5	25
GWCS-3x100P5	100	150	3x50	$\pm 15$	0-100	0.5	-25...+85	3	<1	3x $\Phi 20$	5	25



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