

Hall Current Sensor

EHN Series-T01

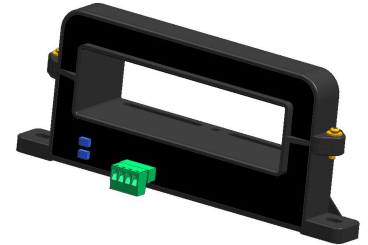
The EHN1000~3000A series are For the electronic measurement of currents:DC,AC,pulsed, with a galvanic isolation between the primary(high power) circuit and the secondary(electronic) circuit.

Features:

- 1/Hall effect measuring principle.
- 2/Using a programmable high-speed Hall integrated circuit current sensor.
- 3/The perfect combination of digital circuit and analog circuit is realized; the accuracy, offset and other indicators are optimized.

Application domain:

- 1/Industrial.
- 2/DC AC Electric motor.
- 3/Battery,Electroplating,UPS,electrolytic and other industries.
- 4/DC AC Power supply current metering and measurement etc.



Electrical Specifications

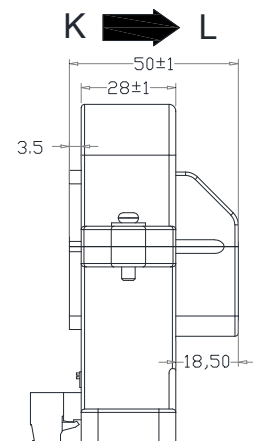
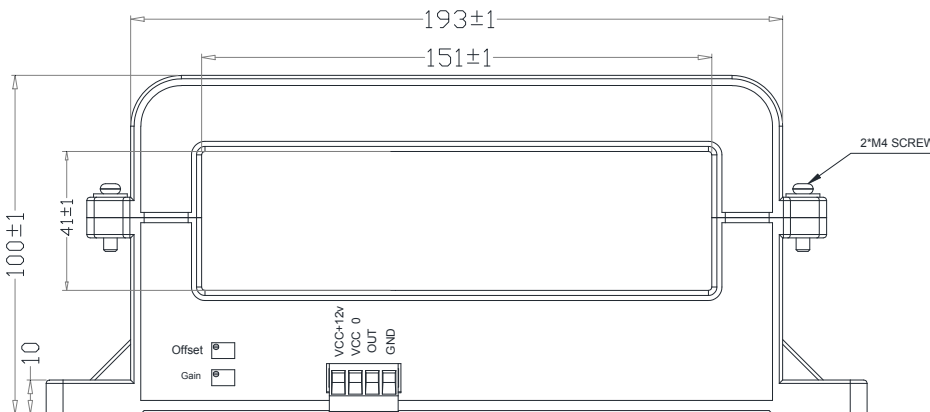
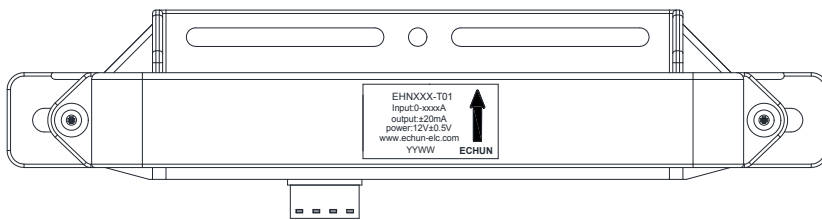
Type:SPEC EHN Series-T01(DC 4-20mA output)		EHN102-T01 (DC 4-20mA output)	EHN202-T01 (DC 4-20mA output)	EHN302-T01 (DC 4-20mA output)
Primary nominal DC. current	I_{pn} (A)	1000	2000	3000
Primary current measuring range	I_p (A)	DC \leq 1200 AC \leq 1000	DC \leq 2400 AC \leq 1800	DC \leq 3600 AC \leq 2600
Accuracy TA = 25 °C (excluding offset)	X	± 0.5 % of I_{PN}		
Linearity (exclude the electrical offset)	L	± 0.2 % of I_{PN}		
Overload capability (Imax)	I_p	18000A (The 18000A does not guarantee the accuracy)		
Output current	I_{out}	DC 4-20mA		
Offset current @ TA = 25 °C	I_o	$< \pm 0.1$ mA		
Hysteresis offset current @ IP = 0, after an excursion of 1 × IPN	I_{oh}	$< \pm 0.1$ mA		
Power Consumption	I_c	0.15 A		
Supply voltage	Vcc	12V		
Temperature coefficient of I_{out} (% of reading)		$< \pm 0.1$ %/K		
Isolation voltage	Vd	4.4 KV RMS/50Hz/min,		
Impulse withstand voltage 1.2/50 μ s	Uw	8.3 kV		
Isolation resistance	RIs	DC500V / 1000M Ω min		

Step response time to 90 % of IPN	Tr	< 5 μ s
Frequency bandwidth (0 ... -3 dB)	f	DC ... 25 kHz
Operating temperature	To	-35 ~ +80°C
Storage temperature	Ts	-40C ~ +85°C

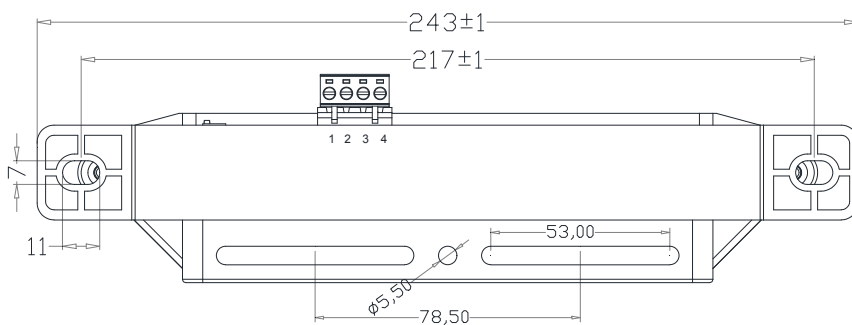
Mechanical Specifications

Output Type	Current(2EDG 5.08-4P)
Approx. Weight	860g

Dimensions (unit: mm):

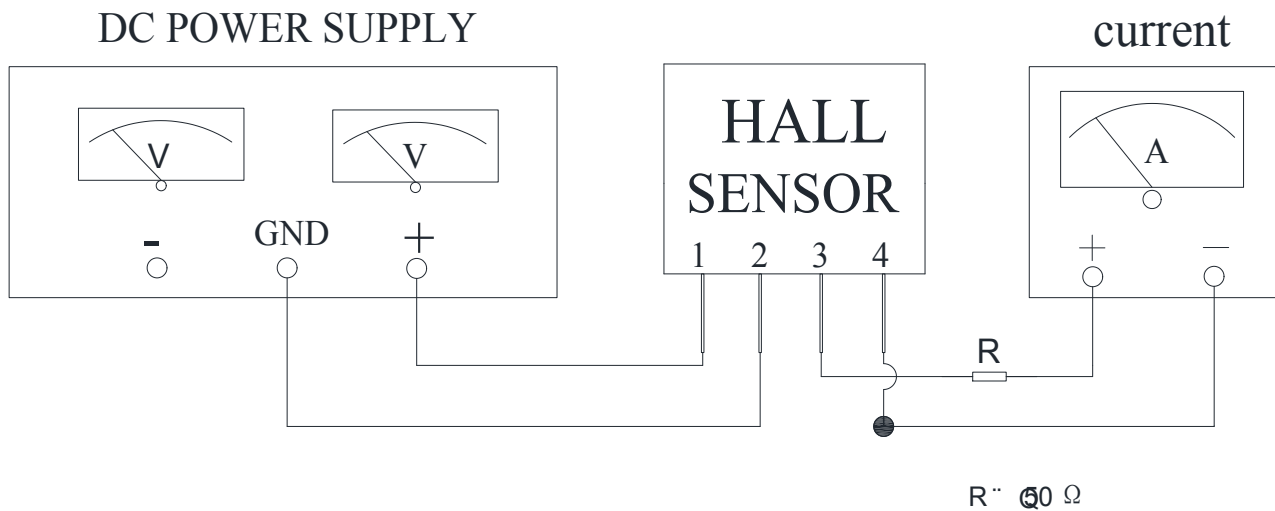


KEFENG-2EDGVC-5.08-4P
KEFENG-2EDGK-5.08-4P



DC Current Sensor with Split Core 2KA-20mA

Connection:



Notes:

1. Adjust the offset potentiometer to power it on for 3 minutes.
2. Two potentiometers can be adjusted, only if necessary, by turning slowly to the required accuracy with a small screwdriver.
3. Connect the terminals of power source, output respectively and correctly, never make wrong connection.
4. The best accuracy can be achieved when the window is fully filled with bus-bar (current carrying conductor).
5. The in-phase output can be obtained when the direction of current of current carrying conductor is the same as the direction of arrow marked on the transducer case.
6. The BUSBAR must be installed in the center of the window!
7. The OFFSET Used to adjust the zero point ($I_p = 0$), usually the output value < 0.03mA.
8. The GAIN Adjust the output current value (accuracy adjustment).