



Hall Current Sensor TG101..301-CCS

I_{PN}=100..300A

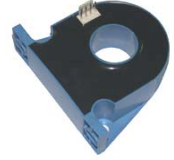
For the electronic measurement of currents:DC,AC,pulsed,mixed,
with a galvanic isolation between the primary(high power)
circuit and the secondary(electronic) circuit.



RoHS COMPLIANT



E466469



● **Operating performance** (AT =25 °C)

Model	TG101-CCS	TG201-CCS	TG301-CCS
Primary nominal r.m.s. current I _{PN} (A)	100	200	300
Primary current measuring range I _P (A)	0~±150	0~±300	0~±500
Secondary nominal r.m.s. current I _{SN}	50mA	100mA	150mA
Measuring resistance R _M	with ±12V R _{Mmin} R _{Mmax} @±100Amax 0 136 @±150Amax 0 74Ω with ±15V @±100Amax 0 175 @±150Amax 0 106	R _{Mmin} R _{Mmax} @±200Amax 0 50Ω @±300Amax 0 26Ω @±200Amax 0 73Ω @±300Amax 0 40Ω	R _{Mmin} R _{Mmax} @±300Amax 0 30Ω @±500Amax 0 7Ω @±300Amax 0 43Ω @±500Amax 0 17Ω
Conversion ratio K _N	1:2000		
Supply voltage V _{CC}	±12~15V (±5%)		
Current consumption I _C	28mA(@±12V)+I _S		
Linearity ε _L	≤±0.1% @0~±I _{PN}		
Accuracy @I _{PN} ,V _C =±15V,T _A =25°C, X	±0.6%	±0.5%	±0.5%
Offset current @I _P =0,T _A =25°C I _O	<±0.15mA	<±0.2mA	<±0.2mA
Thermal drift of I _O I _{OT}	≤±0.64mA/°C (type ±0.2)		
Response time t _r	< 1μs		
di/dt accurately followed di/dt	100A/μs		
Hysteresis offset current I _{OH}	≤±0.1mA @±3I _{PN} →0	≤±0.2mA @±3I _{PN} →0	
Isolation voltage V _d	6KV @50(60)HZ/1min		
Frequency bandwidth f	0~100KHz		

● **General data**

Operating temperature T _O	-25~+85°C
Storage temperature T _S	-40~+85°C
Mass m	105g 110g 110g
Note	Insulated plastic case recognized according to UL 94-V0

● **Applications**

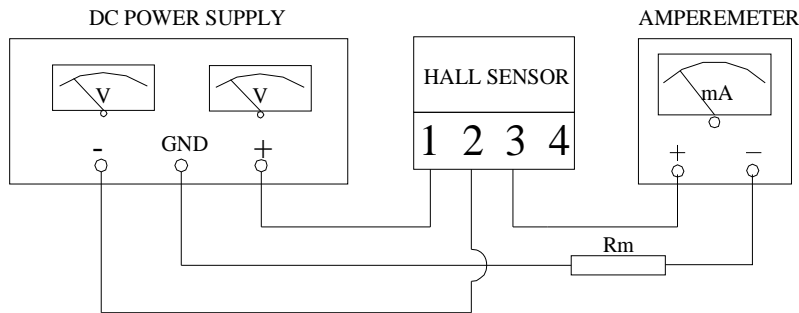
◆AC variable speed drives and servo motor	◆Static converters for DC motor drives
◆Battery supplied applications	◆Switched Mode Power Supplies(SMPS)
◆Uninterruptible Power Supplies(UPS)	◆Power supplies for welding applications

● **Advantages**

◆Excellent accuracy	◆Very good linearity
◆Low temperature drift	◆Optimized response time
◆Wide frequency bandwidth	◆High immunity to external interference
◆Very low insertion losses	◆Current overload capability



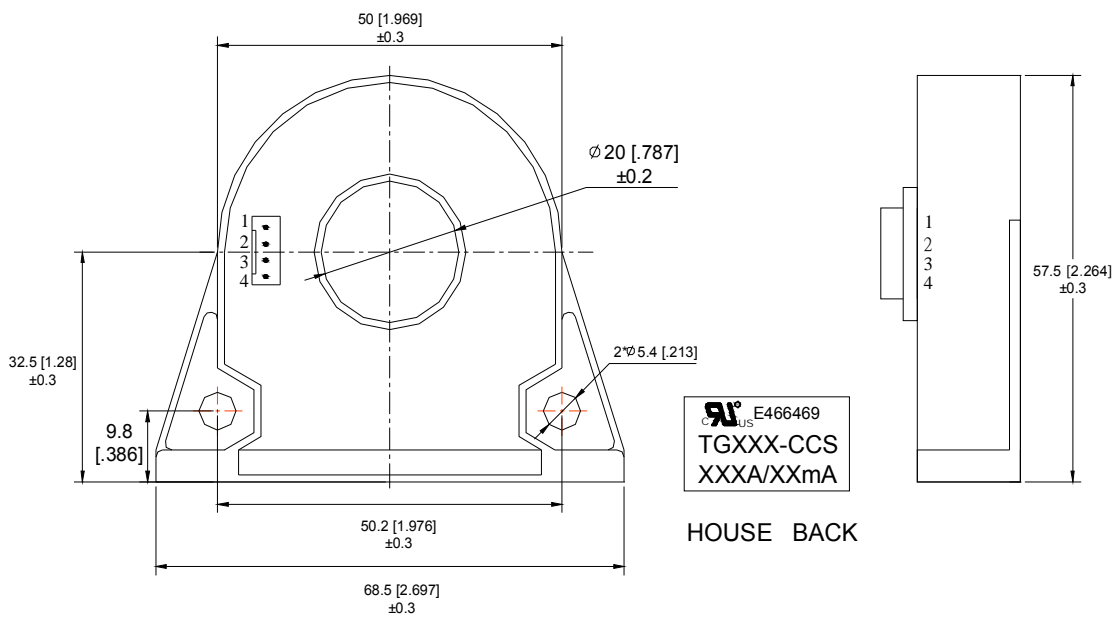
● Connection



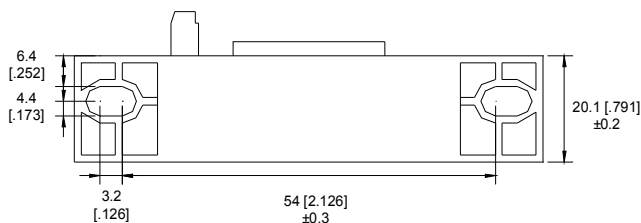
● Dimensions (unit: mm/inch)

Front View

Right View



Bottom View



Secondary terminals	
terminal 1	+VCC
terminal 2	-VCC
terminal 3	OUTPUT
terminal 4	NC

connection of secondary
Molex 22-04-1041

● Remarks

- ◆ I_{OUT} is positive when I_P flows in the direction of the arrow.
- ◆ Temperature of the primary conductor should not exceed 100 °C .
- ◆ These are standard models. For different versions(supply voltages, secondary connections, unidirectional measurements, operating temperatures, etc.)please contact us.