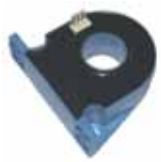
BADGER GLOBAL COMPONENTS
1510 Sylvania Ave., WI 53177 262-884-9087
Fax 262-884-9082 sales@badgerglobal.net

Hall Current Sensor- TG301-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



● Operating performance (AT =25℃)

Performance \ 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}	R_{Mmin} R_{Mmax}	R_{Mmin} R_{Mmax}
		@±100Amax 0 136Ω	@±200Amax 0 50Ω	@±300Amax 0 30Ω
		@±150Amax 0 74Ω	@±300Amax 0 26Ω	@±500Amax 0 7Ω
		with ±15V		
		@±100Amax 0 175Ω	@±200Amax 0 73Ω	@±300Amax 0 43Ω
		@±150Amax 0 106Ω	@±300Amax 0 40Ω	@±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℃,	X	±0.6%	±0.5%	±0.5%
Offset current @I_P=0,TA=25℃	I_O	＜±0.15mA	＜±0.2mA	＜±0.2mA
Thermal drift of Io	I_{OT}	≦±0.64mA/℃ (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℃		
Storage temperature	T_S	-40～+85℃		
Mass	m	105g	110g	110g
Note		Insulated plastic case recognized according to UL 94-V0		

● Applications

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

● Advantages

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

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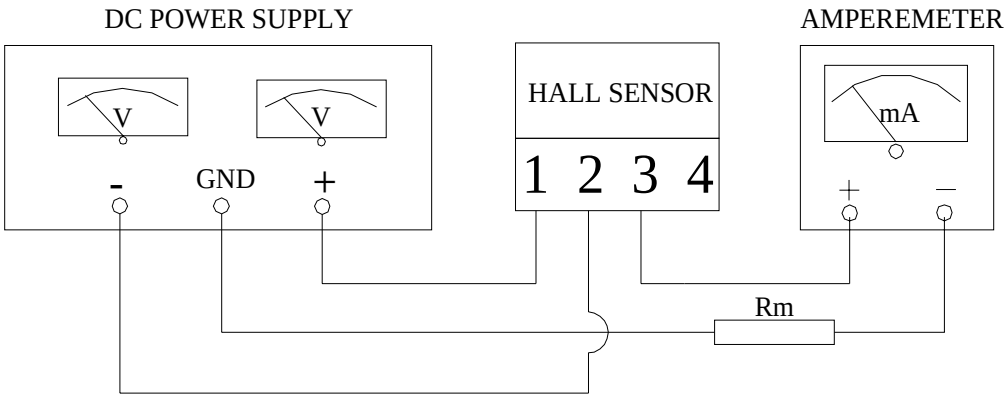
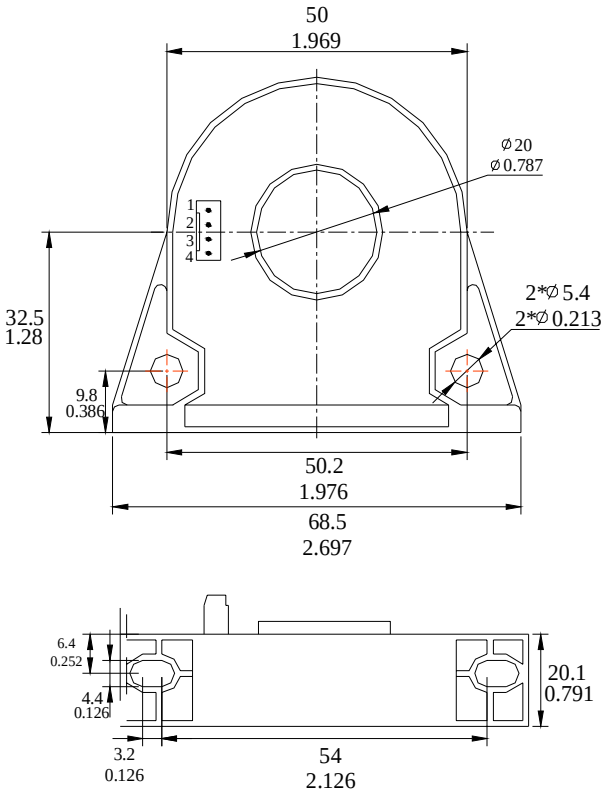
● Connection

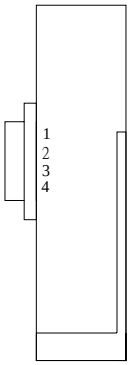


● Dimensions (Unit:mm/inch)

Front View



Right View



Bottom View

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

Tol：±0.5mm/0.02inch

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℃.
- ◆These are standard models. For different versions(supply voltages, secondary connections, unidirectional measurements, operating temperatures, etc.)please contact us.