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

Hall Current Sensor- TI101-CCS

I_{PN}=100A

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

RoHS COMPLIANT

• Operating performances (AT =25℃)

Primary nominal r.m.s. current	I_{PN}	100					A	
Primary current measuring range	I_P	0~±150					A	
Secondary nominal r.m.s. current	I_{SN}	50					mA	
Measuring resistance	R_M			T_A=70℃		T_A=85℃		
				$R_{M\ min}$	$R_{M\ max}$	$R_{M\ min}$	$R_{M\ max}$	
		with ±12V	@ ±100A_{max}	0	50	0	42	Ω
			@ ±120A_{max}	0	22	0	14	Ω
		with ±15V	@ ±100A_{max}	0	110	20	102	Ω
			@ ±150A_{max}	0	33	20	25	Ω
Conversion tatio	K_N	1:2000						
Supply voltage	V_{CC}	±12~15 (±5%)					V	
Current consumption	I_C	10(@±15V)+I_S					mA	
Linearity	ε_L	≦±0.1 @0~±I_{PN}					%	
Accuracy	X	±0.45@I_{PN},V_C=±15V,T_A=25℃,					%	
Offset current	I_O	＜±0.1 @I_P=0,T_A=25℃					mA	
Thermal drift of Io	I_{OT}	≦±0.5 (type ±0.1)					mA/℃	
Response time	t_r	＜1					μs	
di/dt accurately followed	di/dt	200					A/μs	
Hysteresis offset current	I_{OH}	≦±0.15 @±3I_{PN}→0					mA	
Isolation voltage	V_d	2.5 @50(60)Hz/1min					KV	
Frequency bandwidth	f	0~200					KHz	

• General data

Operating temperature	T_O	-25~85℃	℃
Storage temperature	T_S	-40~85℃	℃
Mass	m	18	g

• Applications

◆AC variable speed drives and servo motor drives
◆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

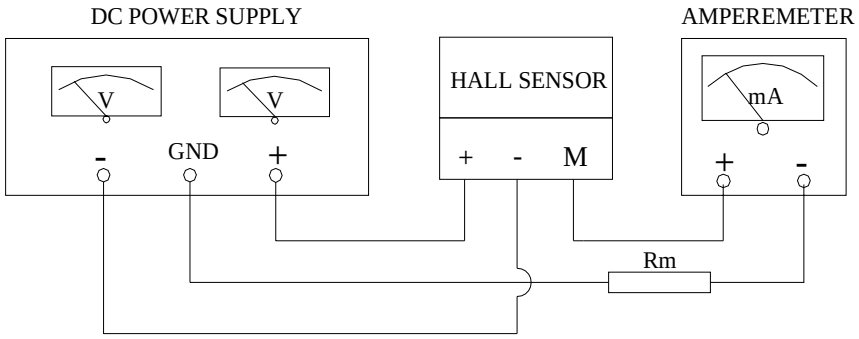
Note: 1)Measuring range limited to ±60A_{MAX} 2)Measuring range limited to ±55A_{MAX}

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

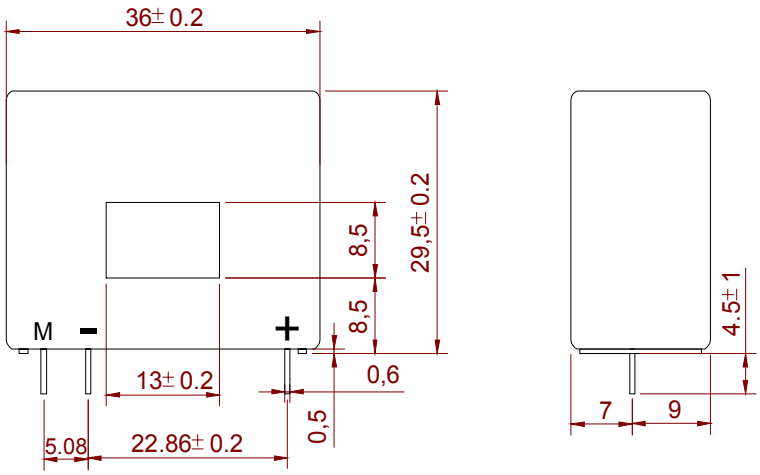
Hall Current Sensor- TI101-CCS

I_{PN}=100A

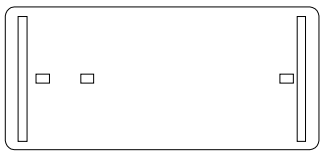
● Connection



● Dimensions (Unit:mm/inch)



Front view Left view



Bttom view

secondary terminals	
terminal +	+12..15V
terminal -	-12..15V
terminal M	measure

● 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.