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

Hall Current Sensor- TR102-OCS I_{PN}=100..1000A

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		TR101 OCS	TR201 OCS	TR301 OCS	TR401 OCS	TR501 OCS	TR601 OCS	TR102 OCS
Primary nominal r.m.s. current	I_{PN} (A)	100	200	300	400	500	600	1000
Primary current measuring range	I_P (A)	0~±300	0~±600	0~±900	0~±1000	0~±1000	0~±1000	0~±1000
Output voltage	V_{OUT}	±4					V	
Supply voltage	V_{CC}	±15(±5%)					V	
Current consumption	I_C	＜25					mA	
Linearity	ε_L	≦±0.5 @0...±I_{PN}					%	
Accuracy @I_{PN},V_C=±15V,T_A=25℃,	X	±1					%	
Offset voltage @I_P=0,TA=25℃	V_O	＜±10					mV	
Thermal drift of V_O	V_{OT}	≦±1					mV/℃	
Thermal drift of V_{OUT}	TCεG	≦±0.05					%/℃	
Response time	t_r	＜3 @90% of Ip					μs	
di/dt accurately followed	di/dt	50					A/μs	
Hysteresis offset current	V_{OH}	≦±10 @±3I_{PN}→0					mV	
Isolation voltage	V_d	3 @50(60)Hz/1min					KV	
Isolation resistance	R_{IS}	500					MΩ	
Frequency bandwidth	f	0~50					KHz	

● General data

Operating temperature	T_O	-25～+85℃
Storage temperature	T_S	-40～+85℃
Mass	m	230 g
Note		Insulated plastic case recognized according to UL 94-V0

● 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

- ◆Low temperature drift
- ◆Only one design for wide current ratings range
- ◆Low power consumption
- ◆High immunity to external interference
- ◆Very low insertion losses
- ◆Current overload capability

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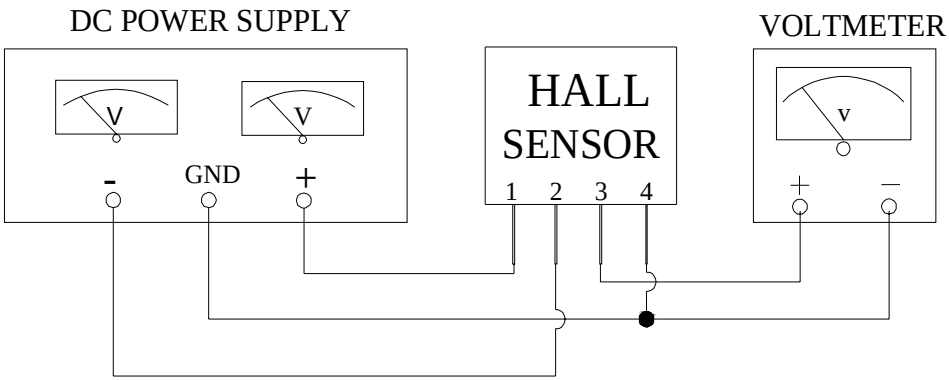
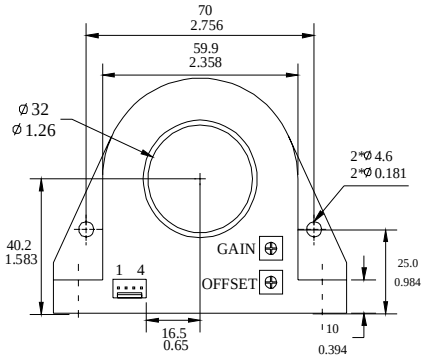
● Connection

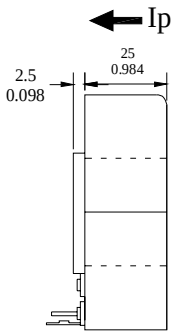


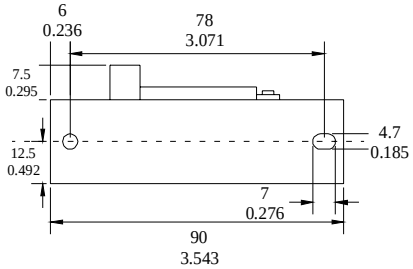
● Dimensions (Unit:mm/inch)

Front View



Right View





Bottom View

Secondary terminals

Terminal 1	+15V
Terminal 2	-15V
Terminal 3	OUTPUT
Terminal 4	GND

Tol：±0.5mm/0.02inch
Connection of secondary
Molex 22-01-1042

● Remarks

- ◆V_{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.