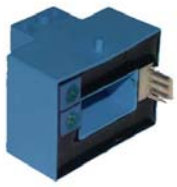
BADGER GLOBAL COMPONENTS
1510 Sylvania Ave., WI 53177 262-884-9087
Fax 262-884-9082 sales@badgerglobal.net

Hall Current Sensor- TS501-OCS I_{PN}=50..500A

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		TS500 OCS	TS101 OCS	TS201 OCS	TS301 OCS	TS401 OCS	TS501 OCS
Primary nominal r.m.s. current	I_{PN} (A)	50	100	200	300	400	500
Primary current measuring range	I_P (A)	0~±150	0~±300	0~±600	0~±900	0~±1000	0~±1000
Supply voltage	V_{CC}	±15V (±5%)					
Output voltage	V_{OUT}	4V ±1% @±I_{PN}, R_L= 10KΩ					
Current consumption	I_C	≦±20mA @ ±I_{PN}					
Offset voltage	V_O	＜±0.03V @I_P=0,T_A=25℃					
Linearity	ε_L	≦±0.5% @0~±I_{PN}					
Accuracy	X	±1% @I_{PN}					
Response time	t_r	＜5μs					
di/dt accurately followed	di/dt	＞50A/μs					
Thermal drift of Vo	V_{OT}	≦±0.5mV/℃					
Thermal drift of VOUT	$TC\varepsilon_G$	＜±0.05%/℃					
Hysteresis offset voltage	V_{OH}	≦±20mV @±3I_{PN}→0					
Isolation voltage	V_d	2.5KV @50(60)HZ/1min					
Isolation resistance	R_{IS}	500MΩ @500V					
Frequency bandwidth	f	0~50KHz					

● General data

Operating temperature	T_O	-25～+85℃
Storage temperature	T_S	-40～+85℃
Mass	m	55g
Note		Insulated plastic case recognized according to UL 94-V0

● Applications

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

● Advantages

- ◆No insertion losses
- ◆Low timperature drift
- ◆Low power consumption
- ◆Only one design for wide current ratings range
- ◆High immunity to external interference
- ◆Current overload capability

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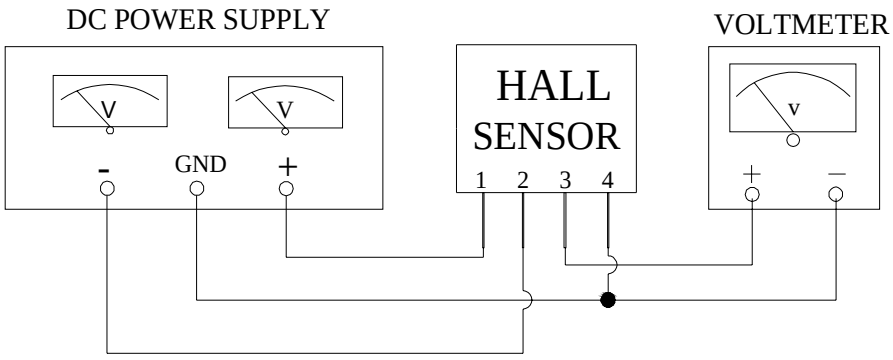
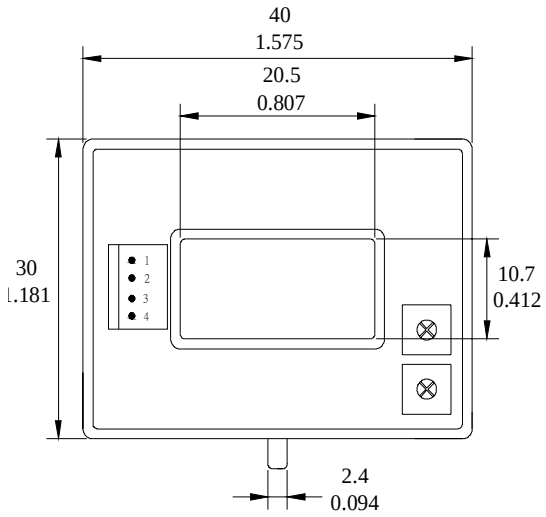
● Connection

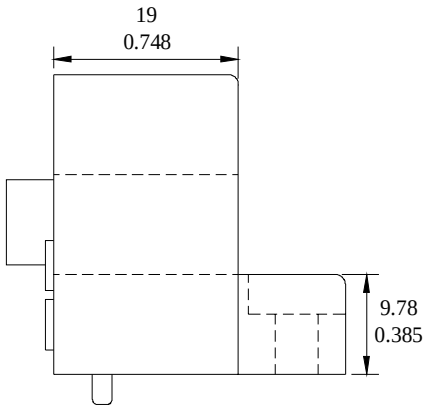


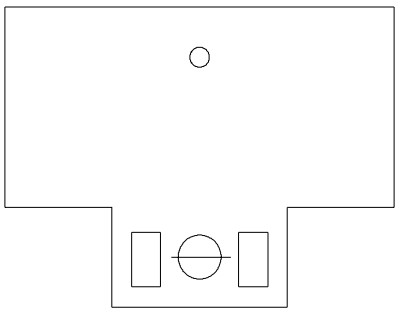
● Dimensions (Unit:mm/inch)

Front View



Right View





Bottom View

Secondary terminals	
Terminal 1	+15V
Terminal 2	-15V
Terminal 3	Output
Terminal 4	0V

Tol：±0.3mm/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.