Hall Current Sensor- TB102-OCS

I_{PN}=200..1000A

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

RoHS COMPLIANT

● **Operating performance (AT= 25℃)**

Performance \ Model		TB201 OCS	TB401 OCS	TB601 OCS	TB801 OCS	TB102 OCS
Primary nominal r.m.s. current	I_{PN} (A)	200	400	600	800	1000
Primary current measuring range	I_P (A)	0~±400	0~±800	0~±1200	0~±1600	0~±2000
Supply voltage	V_{CC}	±15V (±5%)				
Output voltage	V_{OUT}	4V ±1% @±I_{PN}, R_L= 10KΩ				
Current consumption	I_C	≦±15mA @ ±I_{PN}				
Offset voltage	V_O	＜±20mV @I_P=0,T_A=25℃				
Thermal drift of V_O	V_{OT}	＜±0.5mV/℃				
Thermal drift of V_{OUT}	$TC\varepsilon_G$	＜±0.03%/℃				
Response time	t_r	＜5μs				
di/dt accurately followed	di/dt	＞50A/μs				
Linearity	ε_L	＜±1% @0~±I_{PN}				
Accuracy	X	＜±1% @I_{PN} , T_A=25℃				
Isolation voltage	V_d	2.5KV @50(60)HZ/1min				
Isolation resistance	R_{IS}	500MΩ @500V_{DC}				
Hysteresis offset voltage	V_{OH}	≦±20mV @±2I_{PN}→0				
Frequency bandwidth	f	0~25KHz				

● General data

Operating temperature	T_O	-25～+85℃
Storage temperature	T_S	-40～+85℃
Mass	m	265g
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

◆Easy mounting
◆Small size and space saving
◆Only one design for wide current ratings range
◆High immunity to external interference

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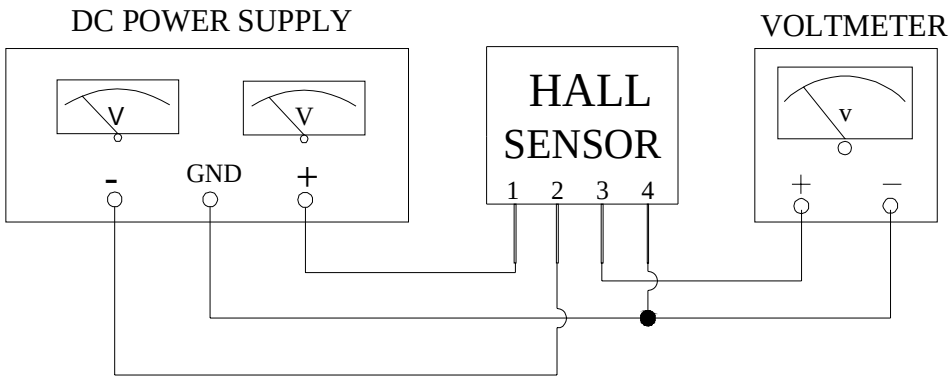
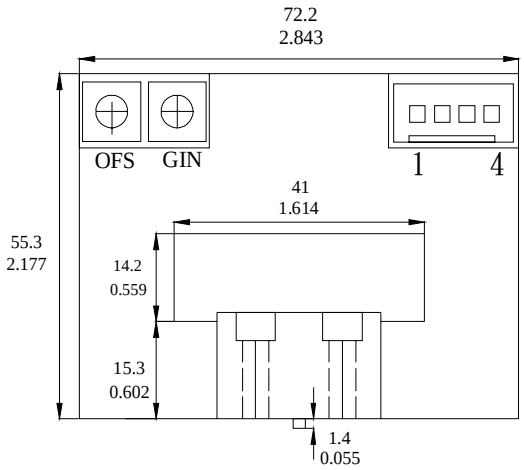
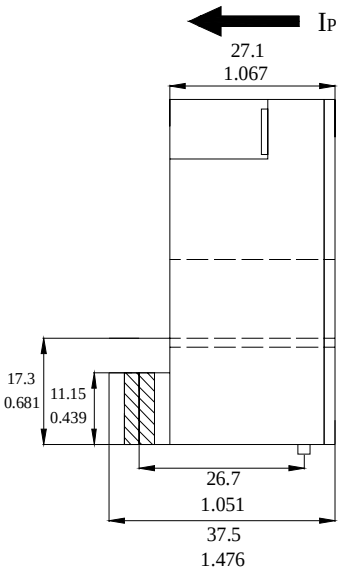
● Connection



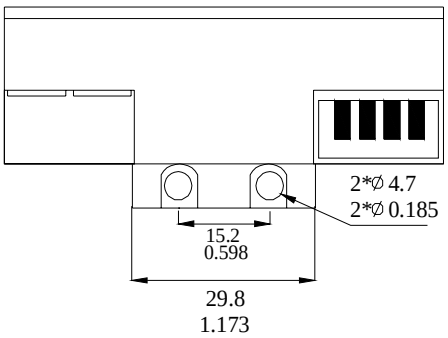
● Dimensions (Unit:mm/inch)

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
connector of secondary
Molex 22-04-1041

● 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.