

Hall Current Sensor -TM501-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.



● Operating performance(AT =25°C)

Performance	Model	TM500 OCS	TM101 OCS	TM201 OCS	TM301 OCS	TM401 OCS	TM501 OCS
Primary nominal r.m.s. current	I_{PN} (A)	50	100	200	300	400	500
Primary current measuring range	I_P (A)	0~±100	0~±200	0~±400	0~±600	0~±800	0~±1000
Supply voltage	V_{CC}			±15V (±5%)			
Output voltage	V_{OUT}			4V ±1% @± I_{PN} , $R_L=10K\Omega$			
Current consumption	I_C			≤±18mA @ ± I_{PN}			
Offset voltage	V_O			<±20mV @ $I_P=0, T_A=25^\circ C$			
Thermal drift of V_O	V_{OT}			<±0.5mV/°C			
Thermal drift of V_{OUT}	$TC\varepsilon_G$			<±0.04%/°C			
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}			
Isolation voltage	V_d			2.5KV @50(60)HZ/1min			
Isolation resistance	R_{IS}			500MΩ @500VDC			
Hysteresis offset voltage	V_{OH}			≤±25mV @±3 I_{PN} →0			
Frequency bandwidth	f			0~50KHz			

● General data

Operating temperature	T_O	-25~+85°C
Storage temperature	T_S	-40~+85°C
Mass	m	75g
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

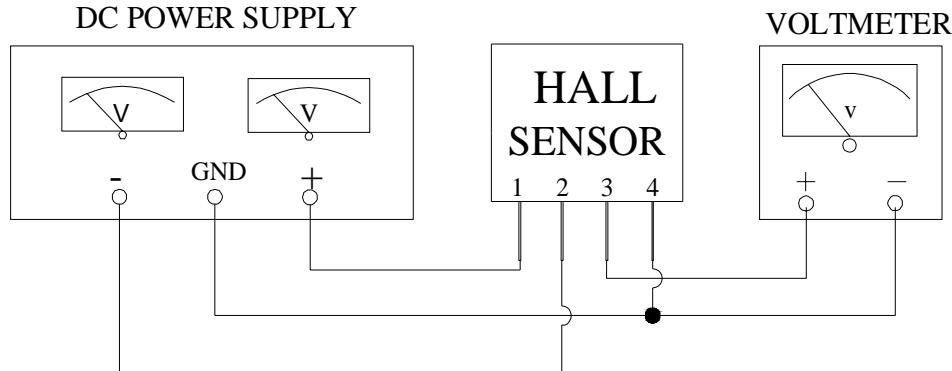
● Advantages

◆Low temperature drift	◆Low power consumption
◆Easy mounting	◆High immunity to external interference
◆Very low insertion losses	◆Current overload capability

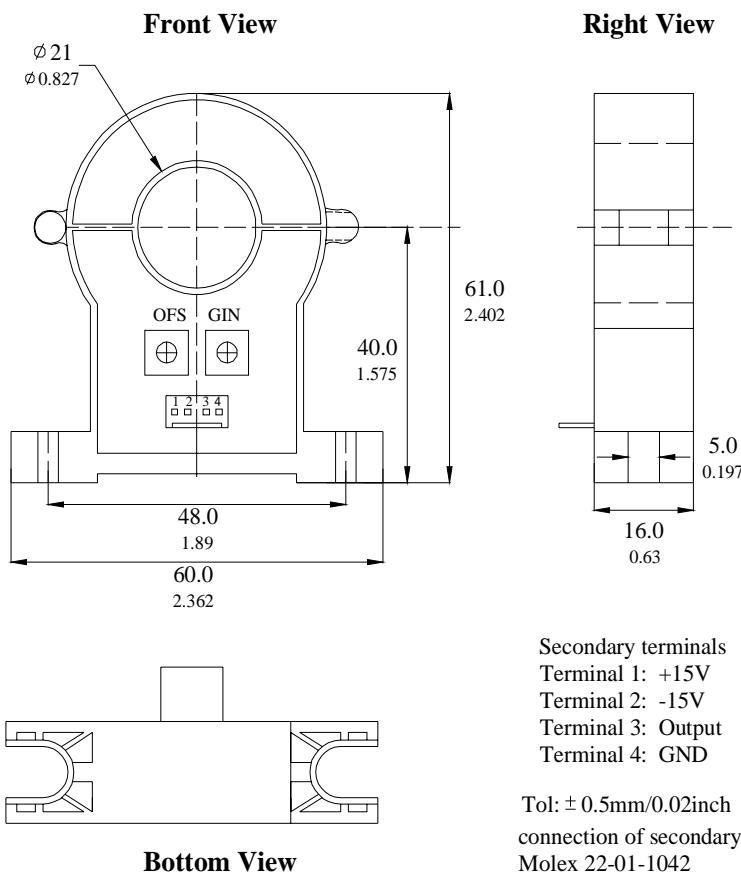
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● Connection



● Dimensions (Unit:mm/inch)



● Remarks

- ◆ V_{OUT} is positive when I_P flows in the direction of the arrow.
- ◆ Temperature of the primary conductor should not exceed 100°C .
- ◆ These are standard models. For different versions(supply voltages, secondary connections, unidirectional measurements, operating temperatures, etc.)please contact us.