

Hall Current Sensor TN301..202-OCS

$I_{PN}=300..2000A$

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.

LEAD FREE



● Operating performance (AT= 25 °C)

Model		TN301 OCS	TN501 OCS	TN601 OCS	TN102 OCS	TN202 OCS
Primary nominal r.m.s. current	I_{PN} (A)	300	500	600	1000	2000
Primary current measuring range	I_P (A)	0~±600	0~±1000	0~±1200	0~±2000	0~±3000
Supply voltage	V_{CC}	±15V (±5%)				
Output voltage	V_{OUT}	4V ±1% @± I_{PN} , $R_L=10K\Omega$				
Current consumption	I_C	≤±20mA @ ± I_{PN}				
Offset voltage	V_O	< ±20mV @ $I_P=0, T_A=25^\circ C$				
Linearity	ϵ_L	≤±1% @0~± I_{PN}				
Accuracy	X	±1% @ I_{PN}				
Response time	t_r	< 20µs				
di/dt accurately followed	di/dt	> 50A/µs				
Thermal drift of V_O	V_{OT}	≤±0.5mV/°C				
Thermal drift of V_{OUT}	$TC\epsilon_G$	< ±0.05%/°C				
Hysteresis offset voltage	V_{OH}	≤±20mV @ $I_{PN} \rightarrow 0$				
Isolation voltage	V_d	6KV @50(60)HZ/1min				
Isolation resistance	R_{IS}	500MΩ @500V				
Frequency bandwidth	f	0~500Hz				

● General data

Operating temperature	T_O	-25~+85°C
Storage temperature	T_S	-40~+100°C
Mass	m	410g
Note		Insulated plastic case recognized according to UL 94-V0

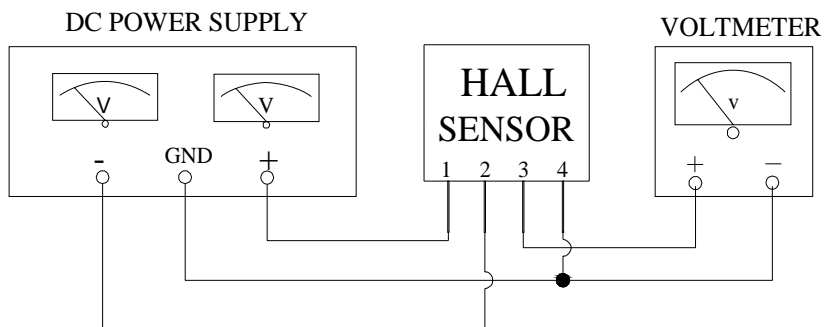
● Applications

◆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

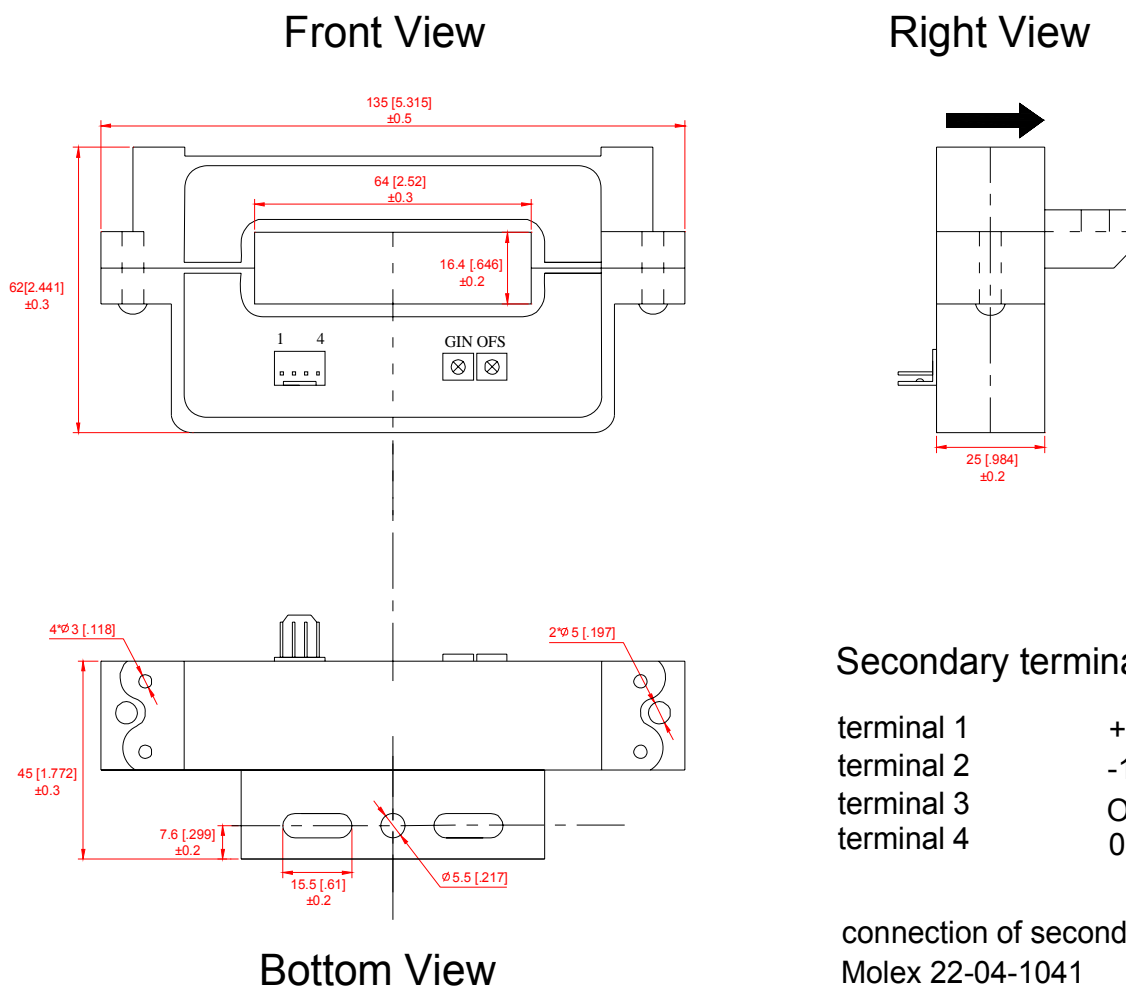
● Advantages

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

● **Connection**



● **Dimensions (unit: mm/inch)**



Secondary terminals

terminal 1	+15V
terminal 2	-15V
terminal 3	Output
terminal 4	0V

connection 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°C.
- ◆ These are standard models. For different versions (supply voltages, secondary connections, unidirectional measurements, operating temperatures, etc.) please contact us.

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