

Hall Current Sensor- TU301-OCS

I_{PN}=50..300A

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°C)

Performance	Model	TU500 OCS	TU750 OCS	TU101 OCS	TU201 OCS	TU301 OCS
Primary nominal r.m.s. current	I _{PN} (A)	50	75	100	200	300
Primary current measuring range	I _P (A)	0~±100	0~±150	0~±200	0~±400	0~±600
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°C				
Thermal drift of V _O	V _{OT}	≤±1mV/°C	≤±0.5mV/°C			
Thermal drift of V _{OUT}	TCε _G	< ±0.04%/°C				
Response time	t _r	< 5μs				
Linearity	ε _L	≤±1% @0~±I _{PN}				
Accuracy	X	±1 @I _{PN}				
Hysteresis offset voltage	V _{OH}	≤±20mV @±3I _{PN} →0				
Isolation voltage	V _d	3KV @50(60)HZ/1min				
Frequency bandwidth	f	0~50KHz				

● General data

Operating temperature	T _O	-25~+85°C
Storage temperature	T _S	-40~+85°C
Mass	m	26g
Note	Insulated plastic case recognized according to UL 94-V0	

● Applications

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

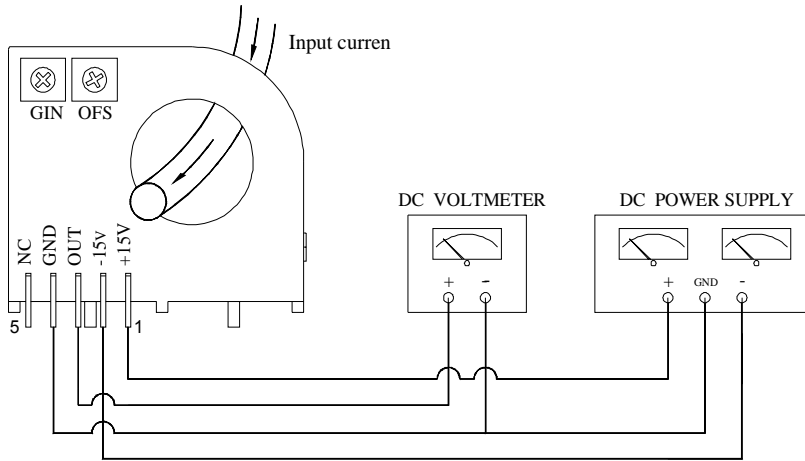
● Advantages

- | | |
|---|---|
| ◆Low insertion losses | ◆Only one design for wide current ratings range |
| ◆Easy to mount with automatic handling system | ◆High immunity to external interference |
| ◆Small size and space saving | |

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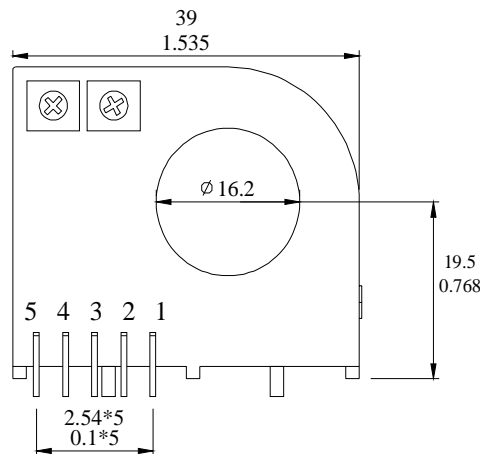
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● Connection

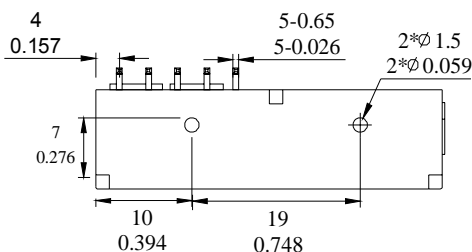
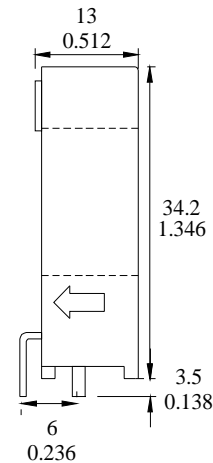


● Dimensions (Unit:mm/inch)

Front View



Right View



Bottom View

Secondary terminals	
terminal 1	+15V
terminal 2	-15V
terminal 3	OUTPUT
terminal 4	GND
terminal 5	NC

Tol : ±0.3mm/0.012inch

● 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.