Hall Current Sensor YA756..856-THG

I_P=200..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 performances (AT= 25℃)

Model		YA756-THG	YA856-THG
Primary nominal r.m.s. current	I_{PN} (A)	200	300
Primary current measuring range	I_P (A)	0~±200	0~±300
ΔV_O at peak rated current	ΔV_O	1.9V @ I_{PN},V_C=5V, R_L= 10KΩ	2.38V @ I_{PN},V_C=5V, R_L= 10KΩ
Supply voltage	V_{CC}	4.5~10.5VDC	
Offset voltage	V_O	(V_{CC}/2)±2% @I_P=0,T_A=25℃	
Supply current	I_C	7.2mA type 8.7mA max@5V, T_A=25℃	
Output current	I_{OUT}	2mA MAX	
Output linearity	ε_L	≦±1% @0~±I_{PN}	
Accuracy	X	±2% @I_{PN}	
Thermal drift of V_O		0.03%/℃	
Thermal drift of Gain		0.03%/℃	
Response time	Tr	3μs	
Isolation voltage	V_d	2.5KV @50(60)HZ/1min	

● General data

Operating temperature	T_O	-40～+125℃
Storage temperature	T_S	-40～+150℃
Mass	m	68g

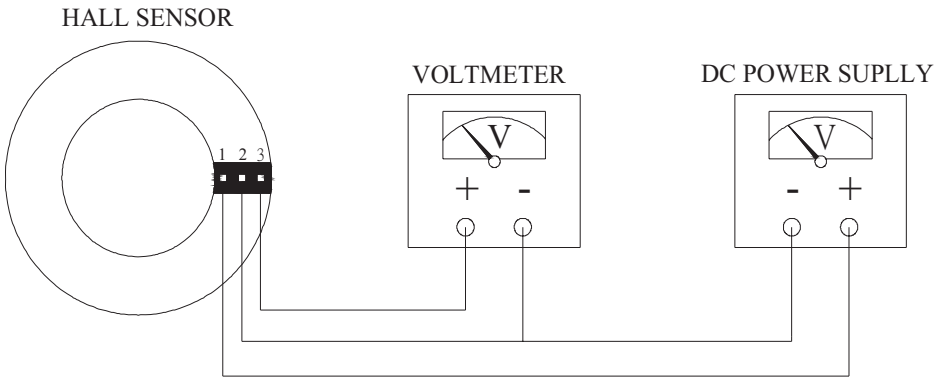
● Applications

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

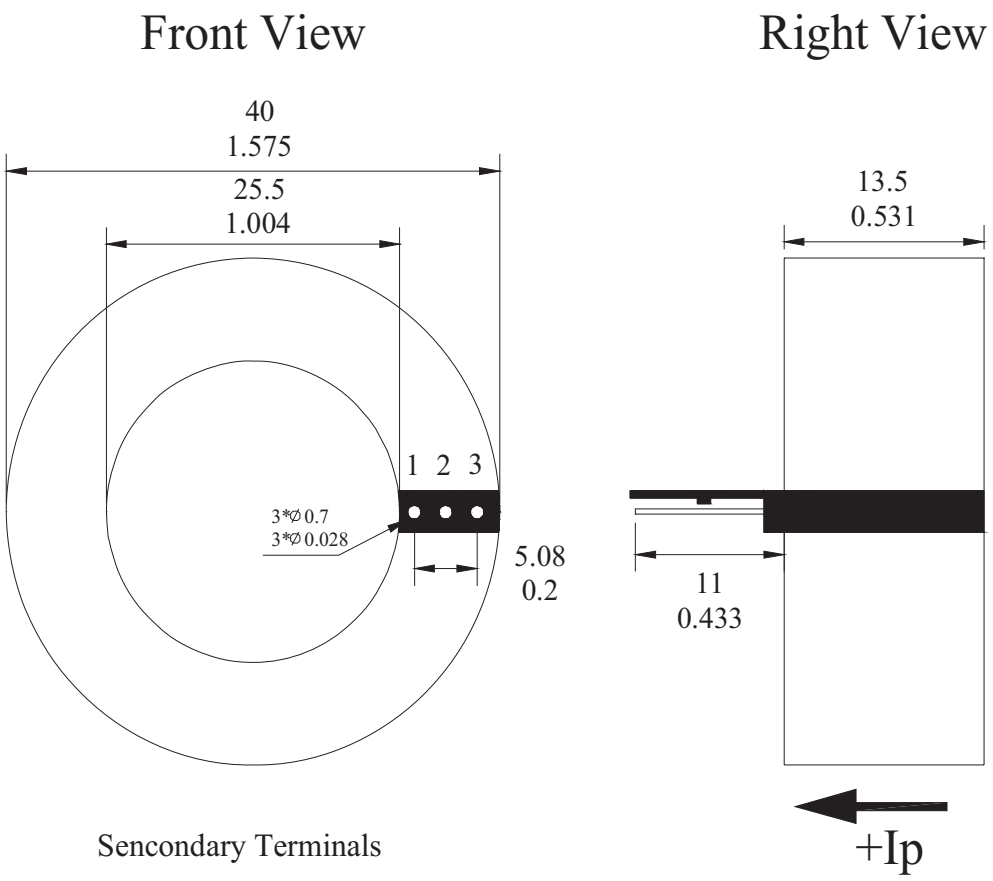
● Advantages

- ◆Output voltage is isolated from the input
- ◆Good linearity
- ◆Very low insertion losses
- ◆Low power consumption
- ◆Excellent temperature stability

● Connection



● Dimensions (Unit:mm/inch)



Sencondary Terminals

1	Vcc
2	GND
3	OUTPUT

Tol: ± 0.5mm/0.02inch
mathing connector Molex 22-01-1042

NOTE : V_{OUT} is positive when I_P flows in the direction of the arrow

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