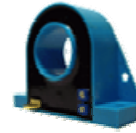


# HCOL09 Series

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 )

Part No.		HCOL09-101-11	HCOL09-201-11	HCOL09-301-11	HCOL09-401-11	HCOL09-501-11	HCOL09-601-11	HCOL09-701-11
Performance								
Primary nominal r.m.s. current	$I_{PN}$ (A)	100	200	300	400	500	600	1000
Primary current measuring range	$I_P$ (A)	0~±300	0~±600	0~±900	0~±1000	0~±1000	0~±1000	0~±1000
Output voltage	$V_{OUT}$	±4V						
Supply voltage	$V_{CC}$	±15V ( ±5% )						
Current consumption	$I_C$	<25mA						
Linearity	$\epsilon_L$	≤±0.5% @0...±IPN						
Accuracy @ $I_{PN}, V_C=±15V, T_A=25^\circ C,$	X	±1%						
Offset voltage @ $I_P=0, T_A=25^\circ C$	$V_O$	<±10 mV						
Thermal drift of $V_O$	$V_{OT}$	≤±1mV/°C						
Thermal drift of $V_{OUT}$	$TC\epsilon_G$	≤±0.05%/°C						
Response time	$t_r$	<3μs @90% of Ip						
di/dt accurately followed	di/dt	50A/μs						
Hysteresis offset current	$V_{OH}$	≤±10mV @±3IPN→0						
Isolation voltage	$V_d$	3KV @50(60)Hz/1min						
Isolation resistance	$R_{IS}$	500MΩ						
Frequency bandwidth	f	0~50KHz						

## General data

Operating temperature	$T_A$	-25 ~ 85 °C
Storage temperature	$T_S$	-40 ~ 100 °C
Mass	m	230g
Note		Insulated plastic case recognized according to UL 94-V 0

## Applications

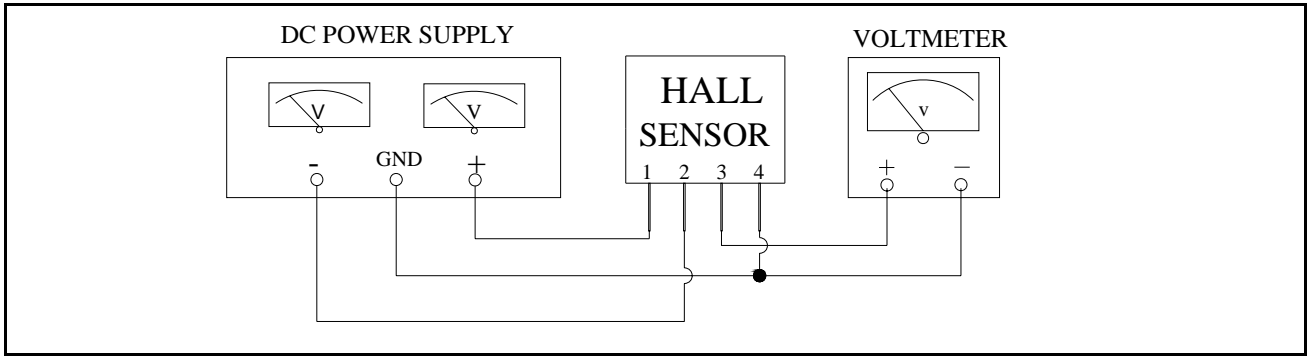
1.AC variable speed drives and servo motor drives	4.Static converters for DC motor drives
2.Battery supplied applications	5.Switched Mode Power Supplies(SMPS)
3.Uninterruptible Power Supplies(UPS)	6.Power supplies for welding applications

## Advantages

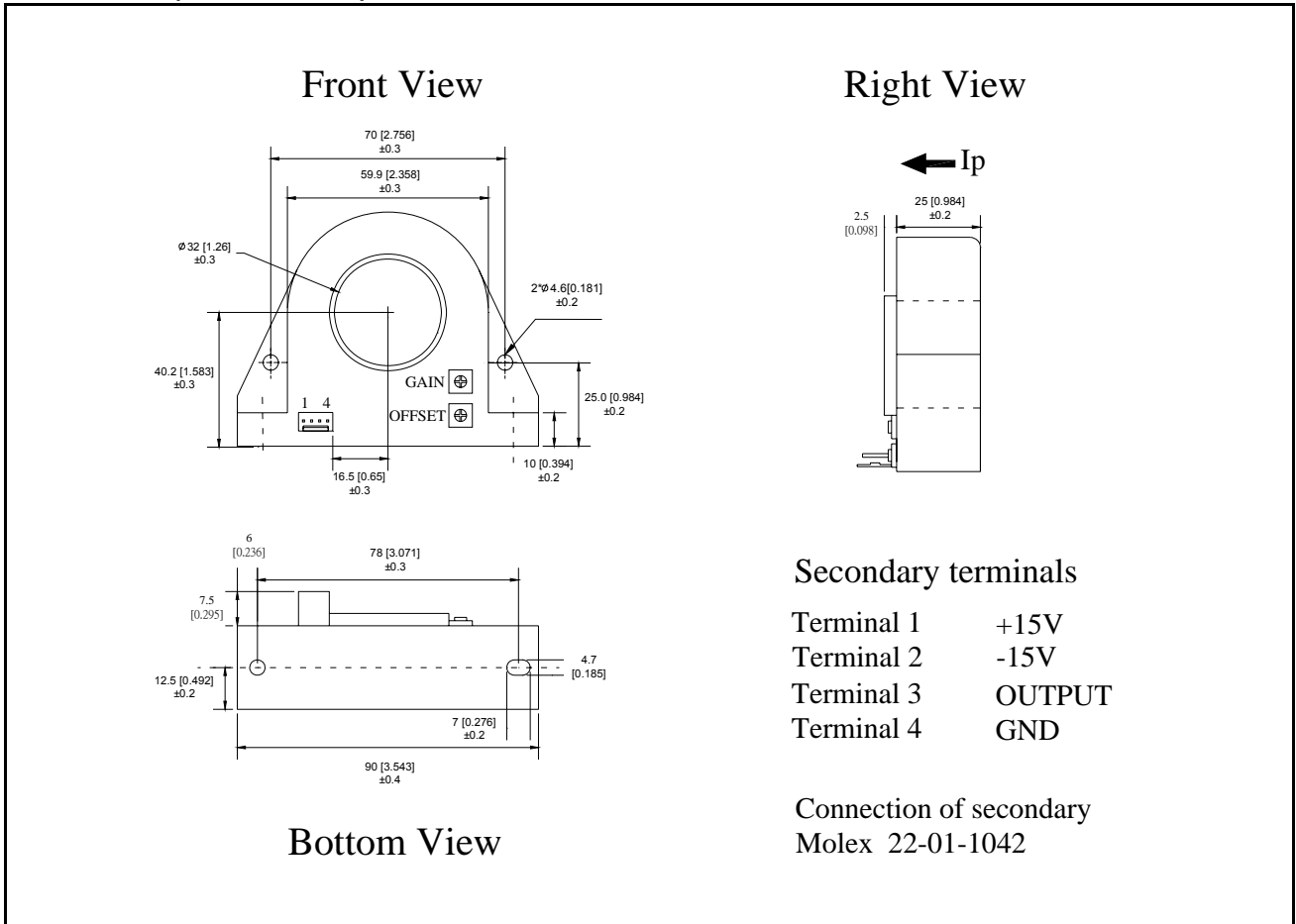
1.Low temperature drift	4.Only one design for wide current ratings range
2.Low power consumption	5.High immunity to external interference
3.Very low insertion losses	6.Current overload capability

# HCOL09 Series

## Connection



## Dimensions (unit: mm/inch)



## Remarks

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