

# HCOL10 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.		HCOL10-201-11	HCOL10-401-11	HCOL10-601-11	HCOL10-801-11	HCOL10-102-11
Primary nominal r.m.s. current	$I_{PN}$ (A)	200	400	600	800	1000
Primary current measuring range	$I_P$ (A)	0~±400	0~±800	0~±1200	0~±1600	0~±2000
Supply voltage	$V_{CC}$	±15V ( ±5% )				
Output voltage	$V_{OUT}$	4V ±1% @±IPN, RL= 10KΩ				
Current consumption	$I_C$	≤±15mA @ ±IPN				
Offset voltage	$V_O$	< ±20mV @IP=0, TA=25°C				
Thermal drift of $V_O$	$V_{OT}$	< ±0.5mV/°C				
Thermal drift of $V_{OUT}$	$TC\epsilon_G$	< ±0.03%/°C				
Response time	$t_r$	< 5μs				
di/dt accurately followed	di/dt	> 50A/μs				
Linearity	$\epsilon_L$	< ±1% @0~±IPN				
Accuracy	X	< ±1% @IPN · TA=25°C				
Isolation voltage	$V_d$	2.5KV @50(60)HZ/1min				
Isolation resistance	$R_{IS}$	500MΩ @500VDC				
Hysteresis offset voltage	$V_{OH}$	≤±20mV @±2IPN→0				
Frequency bandwidth	f	0~25KHz				

## General data

Operating temperature	TA	-25 ~ 85 °C
Storage temperature	TS	-40 ~ 100 °C
Mass	m	265g
Note		Insulated plastic case recognized according to UL 94-V 0

## Applications

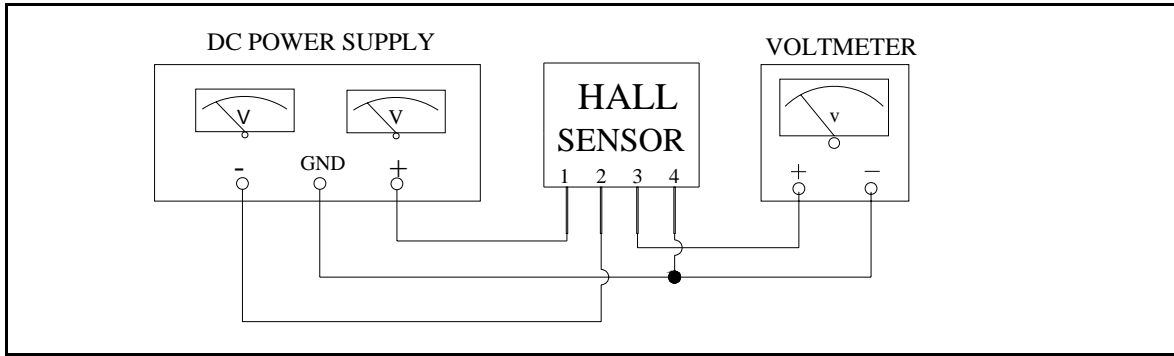
1.AC variable speed drives and servo motor drives	4.Static converters for DC motor drives
2.Battery supplied applications	5.Switched Mode Power Supplies(SMPS)
3.Uninterruptible Power Supplies(UPS)	6.Power supplies for welding applications

## Advantages

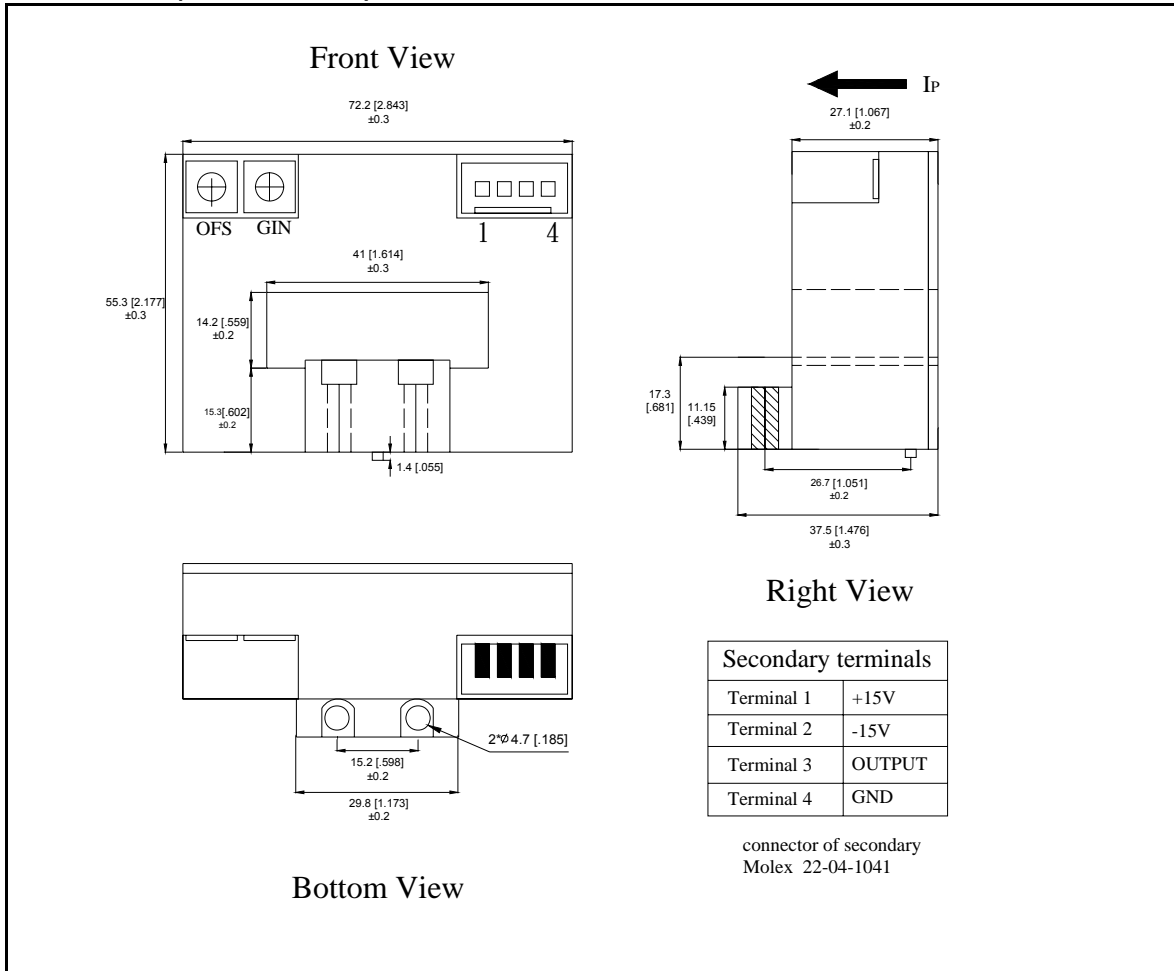
1.Easy mounting	3.Small size and space saving
2.Only one design for wide current ratings range	4.High immunity to external interference

# HCOL10 Series

## 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.