

PHV16 Hall current sensor

OVERVIEW

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.



APPLICATIONS

AC variable speed drives and servo motor drives
Static converters for DC motor drives
Battery supplied applications
Switched Mode Power Supplies(SMPS)

ADVANTAGE

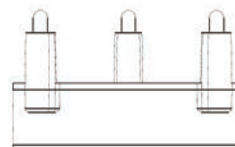
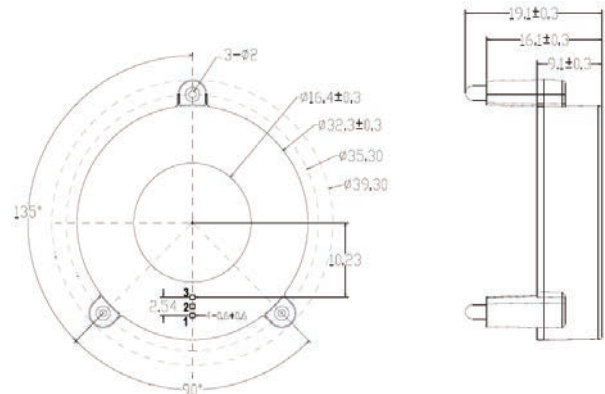
PCB Mount
16mm windows size
0~900A current customized
Weight 23g

ENVIRONMENTAL

Output voltage is isolated from the input
Low power consumption
Good linearity
Excellent temperature stability

ELECTRICAL SPECIFICATIONS

Primary nominal r.m.s. current	I_{PN}	900A
Primary current measuring range	I_p	0~±900A
ΔV_o at peak rated current	ΔV_o	1.724V @ $I_{PN}, V_C=5V, R_L=10K\Omega$
Supply voltage	V_{CC}	4.5~10.5VDC
Offset voltage	V_o	$(V_{CC}/2) \pm 2\% @ I_p=0, T_A=25^\circ C$
Supply current	I_c	7.2mA type 8.7mA max@5V, $T_A=25^\circ C$
Output current	I_{OUT}	2mA MAX
Output linearity	ϵ_L	$\leq \pm 1\% @ 0 \sim \pm I_{PN}$
Accuracy	X	$\pm 2\% @ I_{PN}$
Thermal drift of V_o		0.03%/C
Thermal drift of Gain		0.03%/C
di/dt accurately followed	di/dt	> 50A/ μs
Frequency bandwidth	f	DC~50KHz
Response time	Tr	6 μs
Isolation voltage	V_d	2.5KV @ 50(60)HZ/1min
Operating temperature	T_o	-45 ~ +125 C



SECONDARY TERMINAL	
1	5V
2	GND
3	OUT