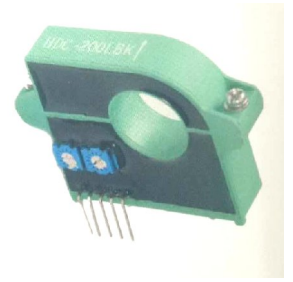


# HDC-300LBK Hall Current Sensor

## Introduction

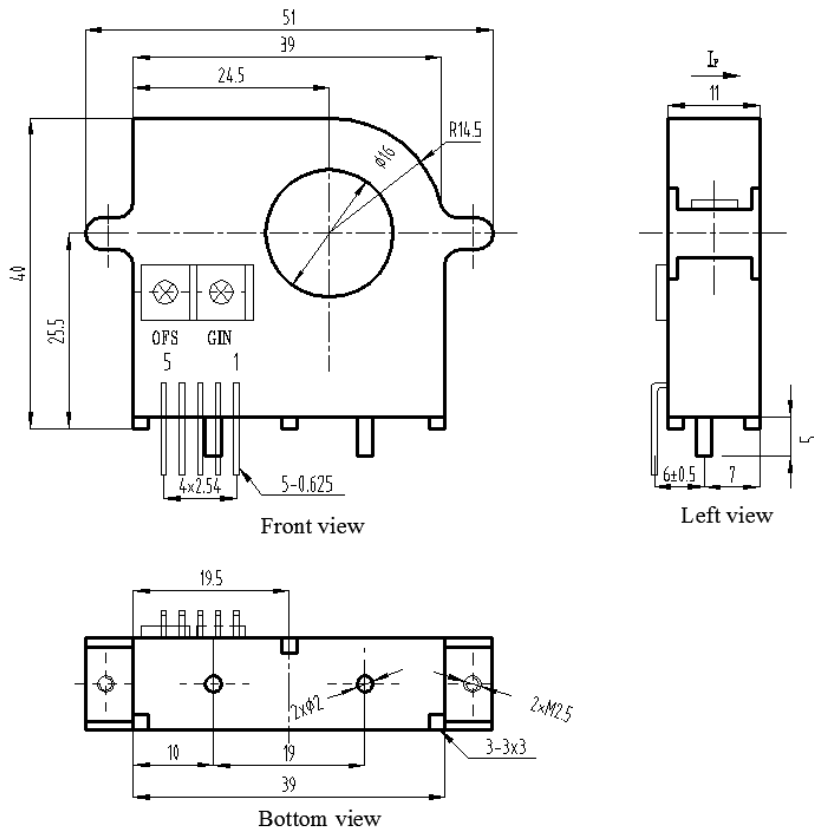
HDC-300LBK Series Hall current transducer is the new generation product based on Hall effect. It is able to measure DC, AC, pulse and other currents with irregular waves under the condition of electrical isolation.



## △Electrical Parameters (Ta=25°C)

Type		HDC-50LBK	HDC-100LBK	HDC-200LBK	HDC-300LBK
Parameters	Symbols				
Nominal measuring current	$I_{PN}$	50A	100A	200A	300A
Linear range	$I_P$	0~±150A	0~±300A	0~±400A	0~±500A
Nominal output voltage	$V_{SN}$	±4V±0.04V( $R_L=10K\Omega$ )			
Zero offset voltage	$V_O$	≤±0.04V( $I_{PN}=0$ )			
Temperature drift of bridge offset	$V_{OT}$	≤±2mV/°C	≤±1mV/°C		
Linear error	$\xi_L$	±1%			
Response time	$T_r$	5 μ S Type 7 μ S Max			
Supply voltage	$V_C$	±15V±5%			
Isolation voltage	$V_d$	2.5KV/50 or 60Hz/min			
Power dissipation current	$I_C$	±30mA			
Frequency bandwidth	f	DC~50KHz(-3dB)			
Operating temperature	$T_a$	-25°C~+85°C			
Storage temperature	$T_s$	-40°C~+90°C			

## △Dimensions: (mm)



## Features:

- ◆ Use open-loop current transducer based on Hall effect
- ◆ Adopt UL94V-0-recognized insulated casing
- ◆ Detachable, easy for mounting
- ◆ Small size and space saving
- ◆ Compact design for PCB mounting
- ◆ Punching way has no insertion loss

## Applications:

- ◆ Communication power supply
- ◆ Uninterruptible power supply (UPS)
- ◆ Switched-mode power supply
- ◆ Power supply for electric welding machine
- ◆ Battery supply

## Instructions for Use:

- ◆ Connect the wire of transducer in correct way as required.
- ◆ Inputting measured current from punched core of transducer, the in-phase voltage signal can be obtained from output end by sampling.
- ◆ The arrow indicates positive current direction.

## Connection and adjustment:

- ◆ 1: +Vc (+15V)
- ◆ 2: -Vc (-15V)
- ◆ 3: Output
- ◆ 4: 0V
- ◆ 5: NC
- ◆ OFS: Offset
- ◆ GIN: Gain