

# Hall Current Sensor HIEM-DC-150LY

For the electronic measurement of currents: DC, AC, pulsed, mixed, with a galvanic isolation between the primary circuit (high power) and the secondary circuit (electronic circuit).



## Electrical data

TYPE		DC-50LY	DC-75LY	DC-100LY	DC-150LY
parameter	sign				
Primary nominal r.m.s. current	$I_{PN}$	50A	75A	100A	150A
Primary current measuring range	$I_p$	$\pm 150A$	$\pm 225A$	$\pm 300A$	$\pm 400A$
Secondary nominal RMS voltage	$V_{SN}$	$4V \pm 1\%$ at $I_{PN}$ ( $R_L = 10 k\Omega$ )			
Supply voltage	$V_C$	$\pm 15V$ DC $\pm 5\%$			
Zero offset voltage@ $I_{PN}=0$ , $T_A = 25^\circ C$	$V_0$	within $\pm 40mV$			
Thermal drift of offset voltage@ $I_{PN}=0$	$V_{OT}$	$\pm 1.5mV/^\circ C$	within $\pm 1.0mV/^\circ C$		
Linearity of $V_{SN}$ at $I_{PN}=F.S$	$\epsilon_L$	$\pm 1\%$ of $V_{SN}$ at $I_{PN}=F.S$			
Response time	$T_r$	$5\mu s$ max			
R.m.s. voltage for AC isolation test	$V_d$	2.5KV/50 or 60Hz/1min			
Ambient operating temperature	$T_a$	$-10 \sim +80^\circ C$ E: $-40 \sim +85^\circ C$			
Ambient storage temperature	$T_s$	$-15 \sim +85^\circ C$ E: $-45 \sim +105^\circ C$			

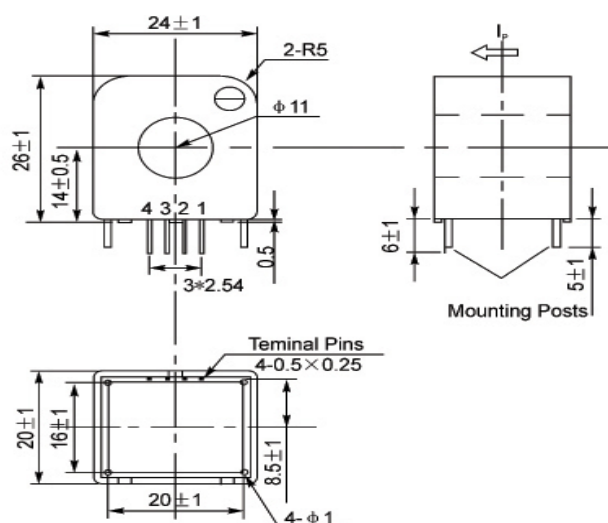
## Features

1. Opened loop (compensated) multirange current sensor using the Hall effect
2. Small size and space saving
3. Compact design for PCB mounting
4. Low power consumption
5. High immunity to external interference

## Applications

1. AC variable speed drives and serve motor drives
2. Uninterruptible Power Supplies (UPS)
3. Battery supplied applications
4. Power supplies for welding applications.

## Dimension(mm)



## Pin Identification

- 1: +15V
- 2: -15V
- 3: Output
- 4: 0V