

# Hall Current Sensor HIEM-DC-5000KA

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-800KA	DC-1000KA	DC-2000KA	DC-3000KA	DC-5000KA
parameter	sign					
Primary nominal r.m.s. current	$I_{PN}$	800A	1000A	2000A	3000A	5000A
Primary current measuring range	$I_P$	0~1600A	0~2000A	0~3000A	0~4500A	0~7500A
Secondary nominal RMS voltage	$V_{SN}$	4V or 5V				
Supply voltage	$V_C$	$\pm 15V$				
Zero offset voltage @ $I_{PN}=0, T_A=25^\circ C$	$V_0$	$< \pm 20mV$				
Thermal drift of offset voltage @ $I_{PN}=0$	$V_{OT}$	within $\pm 1mV/^\circ C$				
Linearity of $V_{SN}$ at $I_{PN}=F.S$	$\epsilon_L$	within $\pm 1\%F.S$				
Response time	$T_r$	$< 10\mu s$				
R.m.s. voltage for AC isolation test	$V_d$	6KV/50Hz/1min				
accuracy	$X$	$< \pm 1\%F.S$				
Frequency bandwidth	$f$	DC~20KHz(-3dB)				
Current consumption	$I_c$	$< 20mA$				
Load resistance	$R_L$	$\geq 1k\Omega$				
Ambient operating temperature	$T_a$	-10~+80°C E:-40~+85°C				
Ambient storage temperature	$T_s$	-25~+85°C E:-45~+105°C				



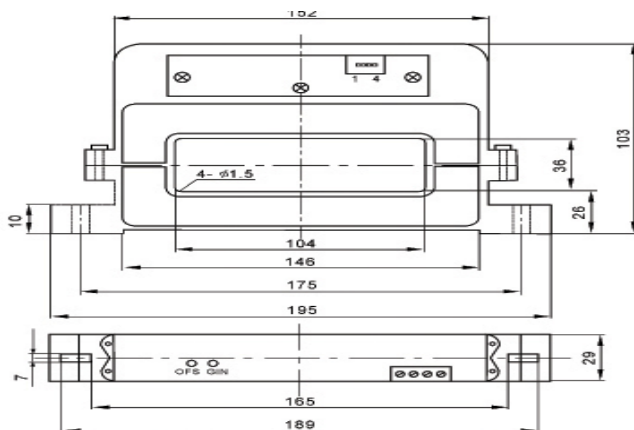
## Features

1. Opened loop (compensated) multirange current sensor using the Hall effect
2. Voltage supplies
3. Very low temperature drift
4. Wide frequency bandwidth
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)



## connection diagram

