

# Hall closed loop current sensor

## Model: HAS2009

Epoxy potting plug terminal, leading wire or PCB welding output.AC/DC motor, current and voltage detection, battery powered, charging current detection, welding machine, inverter, automatic elevator, crane, papermaking,printing presses, injection molding machine, elevator Mechanical and electrical equipment such as AC/DC current/voltage detection

### Technical indicators:

Flame resistance: UL94-V0

Working temperature: -25~+70℃

Storage temperature: -40~+85℃

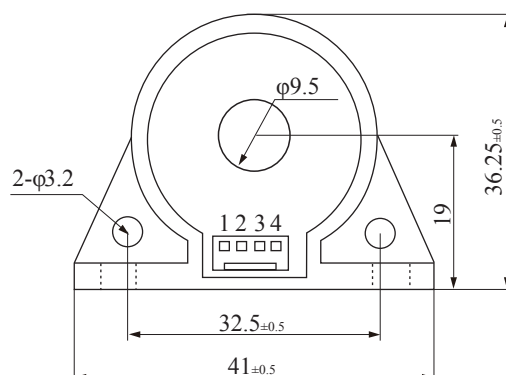
Bandwidth: DC~150kHz

Dielectric strength: 3.5KV 50Hz 1min

### Electrical parameters:

|                 |                             |                 |          |
|-----------------|-----------------------------|-----------------|----------|
| $I_P$           | Rated input                 | $\pm 20$        | A        |
| $I_{PM}$        | Input measured range        | $\pm 40$        | A        |
| $V_{OUT}$       | Rated output                | $2.5 \pm 0.625$ | V        |
| X               | Accuracy                    | 0.5             | %        |
| $\mathcal{E}_L$ | Linearity                   | $< 0.1$         | %        |
| $V_C$           | Supply voltage( $\pm 5\%$ ) | +5              | V        |
| $I_C$           | Current consumption         | $< 40$          | mA+Im    |
| $R_L$           | Load impedance              | $\geq 2K$       | $\Omega$ |
| $V_{OE}$        | Zero offsetTA=25℃           | $\leq \pm 15$   | mV       |
| $T_R$           | Response time               | $< 1$           | $\mu s$  |
| N.W             | Weight                      | 40              | g        |

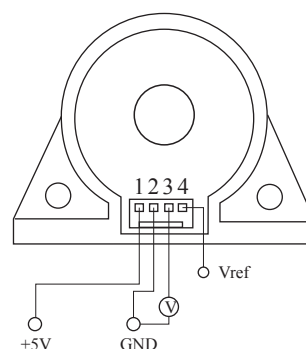
### Dimensions ( in mm ) :



Front view



### Connection Diagram:



### Terminal definition

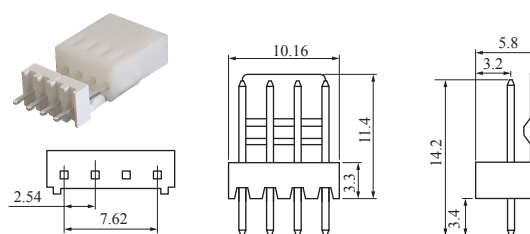
1: +V

2: 0V

3: Vout

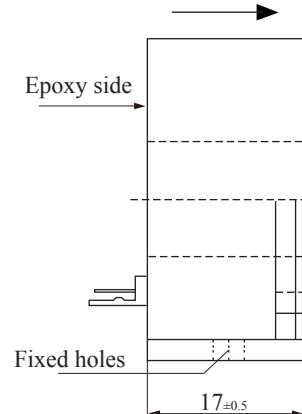
4: Vref

### connector schematic diagram:



Cold-press terminal plug /socket,Distance 2.54, Stitch size 0.5×0.5

### current direction



Side view