QNHCK2-16 Series Open Loop Mode Dismountable Hall Effect Current Sensor

QNHCK2-16 series dismountable hall effect current Sensor is an open loop device based on the measuring principle of the hall effect, with a galvanic isolation between primary and secondary circuit.It provides accurate electronic measurement of DC, AC or pulsed currents.

Electrical data (Ta=25℃±5℃)

Type	QNHCK2-16						Unit
Rated current (Ipn)	20	30	50	70	100	150	A
Measure range (Ip)	±22	±33	±55	±77	±110	±150	A
Rated output (Vo)	2.5 ± 2V 2.5 ± 0.625V 2.5 ± 1V 2.5 ± 1.25V						
Supply voltage	+5V (5%)						V
Power Consumption	≤10						mA
Galvanic isolation	2.5 (50HZ,AC,1min)						KV
Accuracy	≤1						%
Linearity	≤1						%FS
Offset voltage	@Ip=0 ta=25℃ 2.5(1%)						V
Magnetic offset	@Ip=±Ipn-0 ≤±25						mV
Offset drift	@Ip=0 Ta=-25~80℃ ≤±1						mV/℃
Response time	≤7						μs
Bandwidth	DC~50						KHz
Load resistance	⩾10						kΩ
Operating temperature	-25 to +85						℃
Storage temperature	-40 to +125						℃
Mass(approx)	75						g

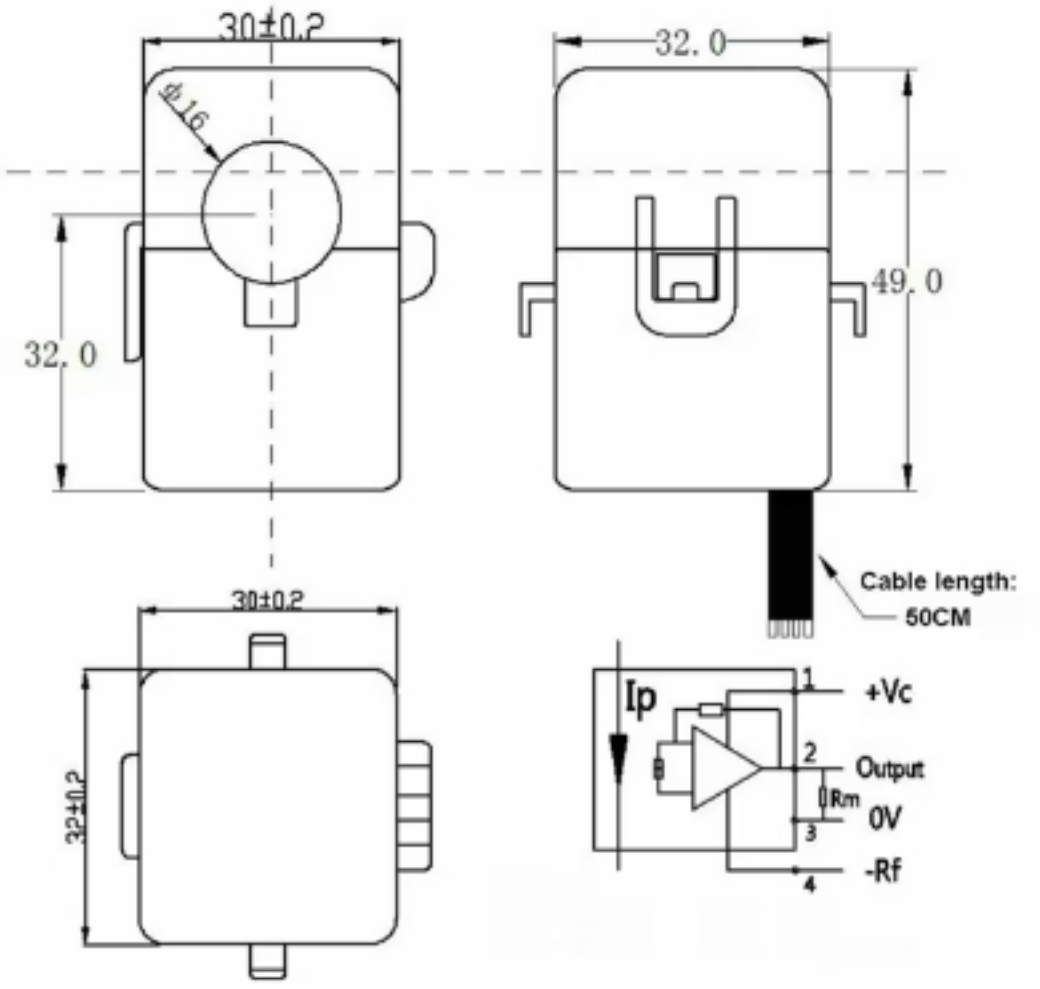
Applications

- Variable speed drives
- Welding machine
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Electrochemical

Products Features

- Easy mounting
- Small size and space saving
- No insertion losses
- High immunity to external interference

Dimension (mm)



Elucidation: 1(Red):+5V 2(Yellow): Vout 3(Black):GND 4(Blue):Vref

Directions for use

1. When the current will be measured goes through a Sensor, the voltage will be measured at the output end.(Note: The false wiring may result in the damage of the Sensor)
2. The output amplitude of the Sensor can be adjusted according to users' requirements.
3. Custom design in the different rated input current and the output voltage are Sensor.