

KLY-CAB-BY06-CR5J Series Automotive Current Sensor

KLY-CAB-BY06-CR5J系列汽车业电流传感器



Introduction 简介

The CAB family is for battery monitoring applications where high accuracy and very low offset are required. CAB系列用于需要高精度和极低偏移的电池监控应用。

Automotive applications 汽车应用

- Hybrid and electric vehicle battery pack 混合动力和电动汽车电池组
- Conventional lead-acid batteries 传统铅酸电池
- Accurate current measurement for battery management applications (SOC, SOH, SOF etc)
 电池管理应用的精确电流测量(SOC, SOH, SOF等)

Features 特性

- Transducer using Fluxgate technology 传感器使用磁通门技术
- Zero offset 零偏移
- Unlimited over -current capability 无限过电流能力
- Panel mounting 面板安装
- Unipolar +12V battery power supply 单极+12V电池电源
- T_A=-40℃..+85℃
- Accuracy (over temperature range) 精度(过温度范围)
 - ℃。=Sensitivity error < 0.5% (灵敏性误差)
 - -E_L=Linarity error < 0.1% (线性误差)
- Output signal:
- 输出信号: -CAN.C (500kbps)
- Optional internal digital low-pass frequency filter.
 可选内部数字低通滤波器。

Special feature 特殊特性

Advantages 优点

· No offset error

无位移误差 ● Hing accuracy 高精度

低线性误差

· Low linearity error

 Full galvanic separation 全电镀分离

 Connector type PIN Tyco AMP 1473672-1 连接器类型

Principle of Fluxgate Transducers 磁通门传感器的原理

A low-frequency fluxgate transducer is made of a wound core which saturates under low induction.

A current chopper switches the winding's current to saturate the magnetic core

alternatively at \pm B max with a fixed frequency. Fluxgate transducers use the change of the saturation's point symmetry to

measure the primary current.

Due to the principle of switching the current, all offsets(electric and magnetic) are cancelled.

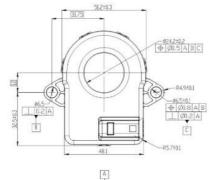
低频磁通门传感器由在低感应下饱和的卷绕芯制成。

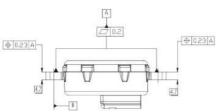
电流的斩波器切换绕组的电流,以固定的频率以±B max交替地使磁芯饱和。

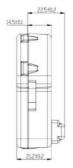
磁通门传感器使用饱和点对称性的变化来测量初级电流。

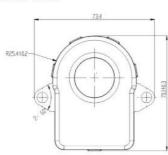
由于切换电流的原理, 所有偏移(电和磁)都被取消。

Dimensions KLY-CAB-BY06-CR5J 二维图 KLY-CAB-BY06-CR5J









Connection 链接

Pi	n Out
A	CAN-L
В	CAN-H
C	GND
D	Uc



Connector type 链接器型号 Tyco-AMP P/N:1 473672-1