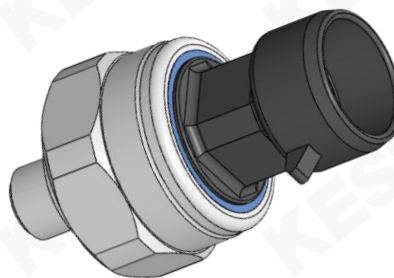


空调压力传感器

Air Conditioning Pressure Sensor



产品介绍 Product Description

空调压力传感器检测空调管路系统的压力信号，提供给空调控制器进行计算和控制空调运行。

The AC pressure sensor detects the pressure in the compressor pipeline and provides signal to the air conditioning controller.

产品特征及优势 Feature and Benefits

- 陶瓷电容传感技术
Ceramic capacitance technology
- 高精度, 优异的长期稳定性
High accuracy, excellent long-term stability
- 优良的EMC/ESD性能
Excellent EMC/ESD performance
- 过压和反向极性保护以及短路保护
Overvoltage, reverse polarity and short circuit protection
- 压力范围、输出曲线以及外形尺寸定制化设计
Customized pressure range, output curve, and housing design
- 卓越的耐振性设计
Excellent vibration resistance design
- 高度模块化产品配置
Modular product configuration
- 出色的密封设计和防护设计
Excellent sealing and protective design

产品应用 Product Application

检测空调管道内的冷媒压力，通过调理电路转化为电信号并输出给空调控制器，空调控制器结合其他信号输入，调整执行机构，从而保证温度在乘员舒适的区间。

AC pressure sensor detects the pressure of refrigerant media and transfer to electrical signal to AC controller. The controller will combinate other signals inputs and then control the actuator to make sure the air temperature falls into comfortable zone for all passengers.

操作 Operation

基本原理 Basic Principle

空调压力传感器根据感应管道内介质压力的变化，导致陶瓷应变膜的变形，使电容值发生改变，通过调理电路的处理放大，转为电压信号。

According to the change of the medium pressure in the induction pipe, the air conditioning pressure sensor will lead to the deformation of the ceramic strain film and change the capacitance value, which will be amplified by the conditioning circuit and converted into a voltage signal.

连接选项 Connection Options

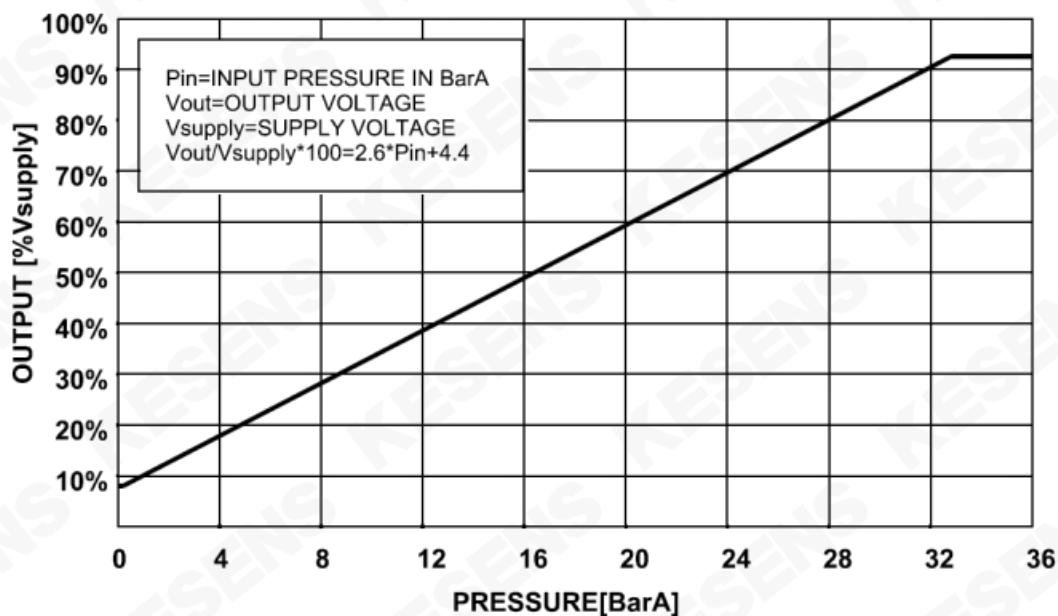
根据客户选择定制连接系统。
Customized to customer choice of connection system.

包装选项 Packaging Options

可提供定制包装以满足任何需要，请联系KESENS技术部了解详情。
Custom packaging can be provided to meet any need, please contact KESSENS Engineering for details.

技术参数 Technical Characteristics

参数PARAMETER	符号SYMBOL	最小值MIN.	额定值NOM.	最大值MAX.	单位UNITS
工作温度 TEMPERATURE RANGE	T	-40		150	℃
压力测量范围（可定制） PRESSURE RANGE(Customizable)	P	0		32	Bar
电源电压 SUPPLY VOLTAGE	Vcc	4.75	5	5.25	V
供电电流 SUPPLY CURRENT	Icc			10	mA
额定输出电压 NOMINAL OUTPUT	Vout	5		95	%Vcc
过压压力 PPOOF PRESSURE				2*P	Bar
爆破压力 BURST PRESSURE				3*P	Bar
过电压 OVER VOLTAGE				20	V
反向电压 REVERSE VOLTAGE		-20			V
整体精度误差 OVERALL ACCURACY ERROR	Err		±3		%Fs
压力响应时间 PRESSURE RESPONSE TIME	从10%到90%的最输出电 压T 10/90 10% to 90% of final output value			10	mS



可根据客户需求定制产品，如有需求请联系我们。
Customized products available upon request. Contact us for details.

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