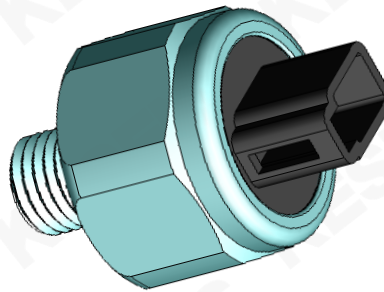


变速箱压力传感器

Transmission Pressure Sensor



产品介绍 Product Description

变速箱压力传感器是对车辆变速箱的压力进行检测。

The sensor detects the pressure of the vehicle transmission.

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
- 可以提供模拟信号或者数字信号
The sensor provides analog signal or digital signal.
- 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
- 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

变速箱压力传感器检测的是变速箱系统管路的压力, 并将信号传递给ECU, 帮助控制变速箱正常运转。

The transmission pressure sensor detects the pressure of the transmission lines and transmits the signal to the ECU to help control the normal operation of the transmission.

操作 Operation

基本原理 Basic Principle

变速箱压力传感器根据感应管路内介质压力并转化为陶瓷应变膜的变形, 获得对应的电容值, 并通过调理电路, 成比例的输出与压力值相关的电信号。

The transmission pressure sensor will transfer the pressure of the transmission pipes into the deformation of the ceramic strain film and therefore the ceramic element capacitance value, which will be amplified by the conditioning circuit and converted into a voltage signal.

连接选项 Connection Options

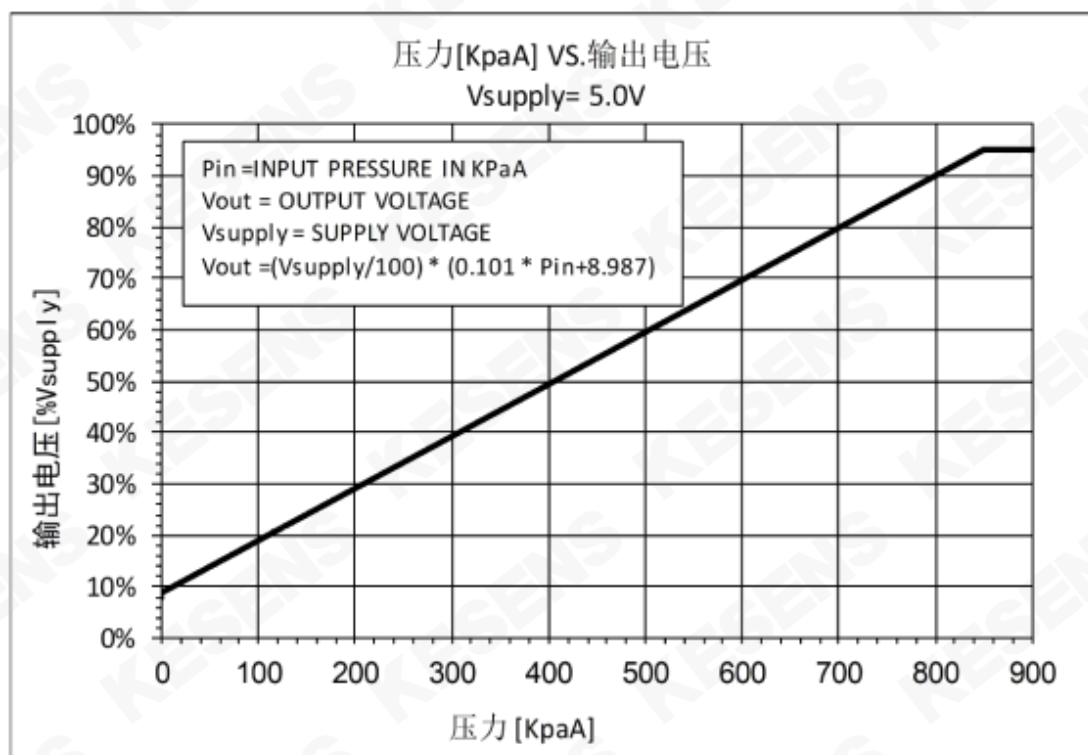
根据客户选择定制连接系统。
Customized to customer choice of connection system.

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 KESENS 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	°C
压力测量范围 PRESSURE RANGE	P	0		8	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		90	%Vcc
过压压力 PROOF 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 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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