

## 气刹压力传感器 Air Brake Pressure Sensor

### 产品介绍 Product Description

气刹压力传感器检测ABS系统内的压力。

The air brake pressure sensor detect the pressure in ABS system.

### 产品特征及优势 Feature and benefits

- ◆ 采用陶瓷电容技术，兼具高精度和优良的稳定性。  
With ceramic capacity technology, with both high accuracy and long-term stability.
- ◆ 0~16Bar 范围内，压力量程可定制。  
Pressure can be customized in the range of 0~16Bar.
- ◆ 0.5V~4.5V 范围内电压输出，提供适当诊断。  
Output with 0.5V~4.5V voltage single, with diagnosis function.
- ◆ 防护等级可达到 IP69。  
Protection degree with IP69.
- ◆ 接插件及压力接头可定制。  
Connector and pressure port can be customized.



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### 产品作用 Application

检测系统内的压力，并转化为电信号输出给控制器。

Detect the system pressure, and transfer to electrical signal the controller.

### 操作 Operation

#### ◆ 基本原理 Basic principle:

气刹压力传感器是采用陶瓷电容技术，根据系统内的压力变化，将其转化为压力敏感元件的电容值变化，然后经过调理电路的处理放大，转为电压信号。

With Ceramic capacitance technology, air brake pressure sensor detect the system pressure, then transfer it into capacitance change. The conditioning module will transfer the capacitance signal into voltage signal.

#### ◆ 连接选项 Connection options:

根据客户选择定制连接系统。

Customized to customer requirement.

#### ◆ 包装选项 Packaging Options:

可提供定制包装以满足客户需要，请联系KESENS技术部了解详情。

Custom packaging can be provided to meet customer requirement, please contact KESENS Engineering for details.

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### 技术参数 Functional Characteristics

参数 PARAMETER	符号 NOTE	最小值 MIN.	额定值 NOM.	最大值 MAX.	单位 UNITS
工作温度 TEMPERATURE RANGE	T	-40		135	°C
压力测量范围 PRESSURE RANGE	P	0		16	Bar
电源电压 SUPPLY VOLTAGE	Vcc	4.5	5	5.5	V
输出电流 OUTPUT CURRENT	Iout			10	mA
额定输出电压 NOMINAL OUTPUT	Vout	5		95	%Vcc
过载压力 Proof pressure				2*P	
爆破压力 Burst pressure				3*P	
整体精度误差 OVERALL ACCURACY ERROR	Err		±3%		、%FS
响应时间 RESPONSE TIME	从 10%到 90%的输出电压 T <sub>10/90</sub> 10% TO 90% OF THE FINAL OUTPUT VALUE			10	mS

可根据需要定制电气和环境规范，详情请联系KESENS技术部。

Custom electrical and environmental specifications can be designed to meet any need, please contact KESENS Engineering for details.