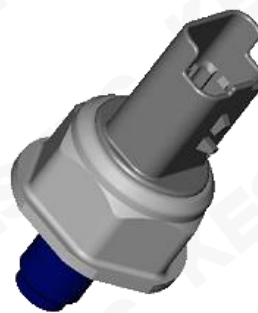


柴油机共轨压力传感器

Diesel Common Rail Pressure Sensor



产品介绍 Product Description

柴油机共轨压力传感器测量柴油机共轨压力，以精确控制发动机燃油供给。

Diesel Common rail pressure detects the pressure of diesel common rail, for precise control of engine fuel supply.

产品特征及优势 Feature and Benefits

- 采用稳定可靠的压阻式微型应变片技术。
Robust and reliable piezoresistive Micro Strain Gauge technology.
- 0~285MPa范围内，压力量程可定制。
Pressure can be customized in the range of 0~285MPa.
- 优异的介质兼容特性。
Excellent compatibility of operation media.
- 电压输出，提供适当诊断。
Voltage output, 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.

产品应用 Product Application

测量柴油机共轨压力，以精确控制发动机燃油供给。

Detect the pressure of diesel common rail, for precise control of engine fuel supply.

操作 Operation

基本原理 Basic Principle

采用玻璃微熔工艺，将压阻式微应变片烧结在不锈钢接头上，当外界压力作用在不锈钢压力头上时，硅应变片将随之产生形变，而其电阻阻值将随形变产生变化，经过调理电路处理，电阻阻值将被转化为模拟信号。

With glass micro-melting process, piezoresistive micro strain gauge will be sintered on stainless steel port. When the pressure affected on the stainless port, silicon strain gauge will also be deformed, then its resistance value will change against the deformation. After conditioning, the resistance value will be converted into analog 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		140	°C
压力测量范围 PRESSURE RANGE	P	0		285	MPa
电源电压 SUPPLY VOLTAGE	Vcc	4.75	5	5.25	V
额定输出电压 NOMINAL OUTPUT	Vout	0.5		4.5	V
过载压力 PROOF PRESSURE				1.5*P	MPa
爆破压力 BURST PRESSURE				2*P	MPa
整体精度误差 OVERALL ACCURACY ERROR	Err		±2%		%FS
压力响应时间 PRESSURE RESPONSE TIME	从10%到90%的输出电压T 10/9010% to 90% of the final output voltage			2	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.

地址：浙江省嘉兴市经济技术开发区天枢路199号

Add: No. 199, Tianshu Road, Economic and Technological Development Zone, Jiaxing City, Zhejiang Province, China.

电话 (Tel) : 0573-82858999

邮箱 (E-mail) : info@kesens.com

网址 (Web) : www.kesens.com

