

## Brochure of CNMEMS Pressure Sensor

### 特点:

- 一致性好
- 小尺寸、MEMS技术、低成本
- 工作温度:  $-40^{\circ}\text{C}\sim 125^{\circ}\text{C}$
- 苛刻环境应用
- 高线性度、高可靠性、低漂移
- 防水防潮设计
- 绝压/表压应用

### Futures

- Perfect consistency
- Small size, MEMS technique, Low cost
- Operating temperature range  $-40^{\circ}\text{C}\sim 125^{\circ}\text{C}$
- Harsh environment
- high Linearity, High reliability, low drift
- Gel protection against humidity and water
- Absolute、gauge pressure sensor system

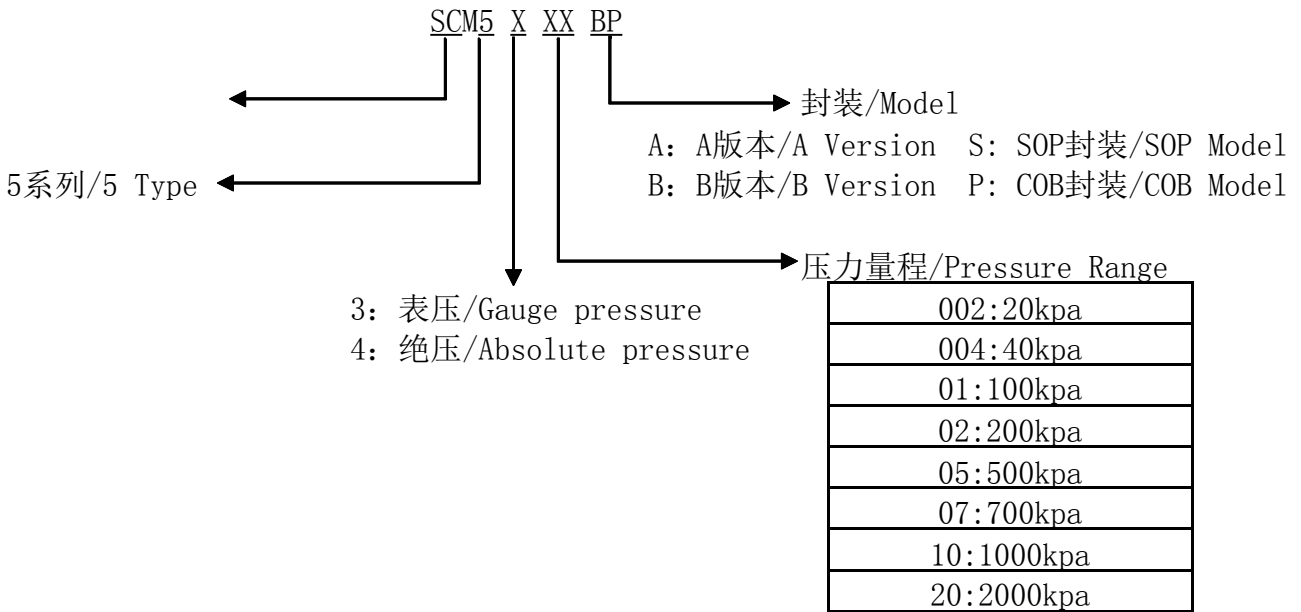
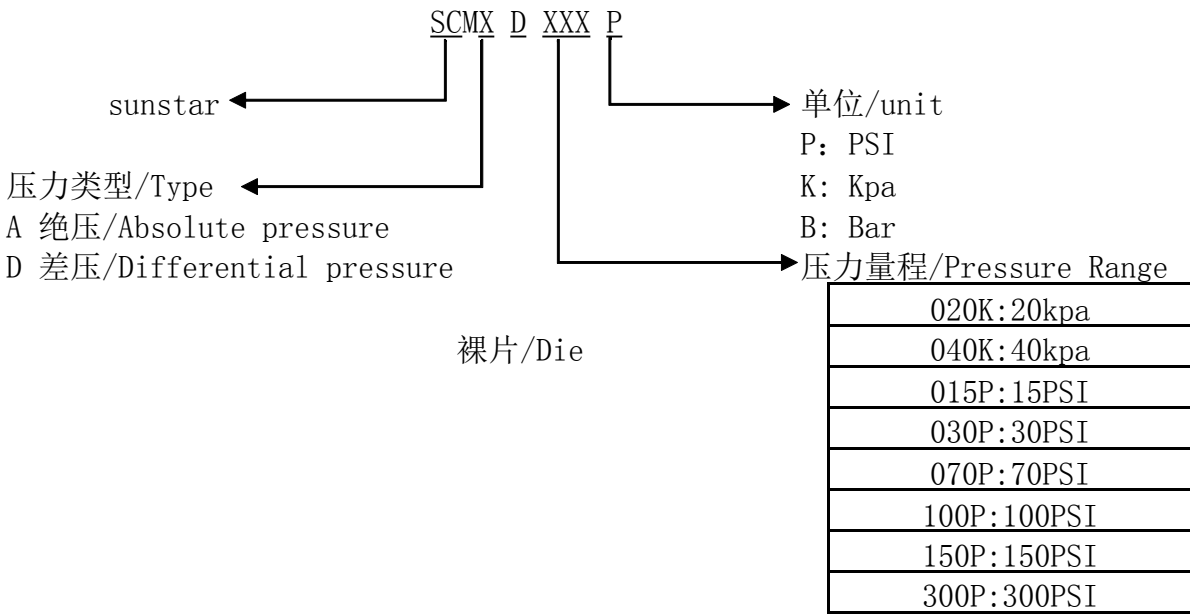
### 用途

- 工业控制: 压力开关, 仪器仪表, 数字压力表
- 液位测量: 水位计
- 气体液体压力测量
- 高度计, 潜水手表
- 环境监控
- 医疗血压计, 呼吸机
- 消费电子, 家用电器
- 汽车电子: 进气歧管测量, 涡轮表, 胎压监测系统, 充气泵
- 绝压、差压测量系统应用

### Applications

- Industry control: pressure switch, instruments, digital pressure gauges
- Liquid level measurement
- Gas、liquid pressure measurement
- Altimeter , Water proof watches and diver' s computers
- Environment monitor
- Medical Sphygmomanometer, respirator
- Consumer electronics, home appliance
- Automotive electronics: Engine controls, turbine table, TPMS, aerating pump
- Absolute、gauge pressure sensor system

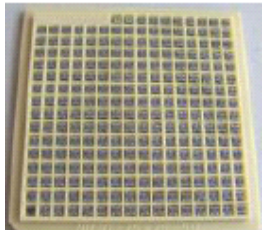
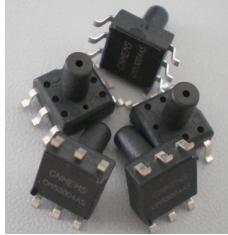
型号/Part Number:



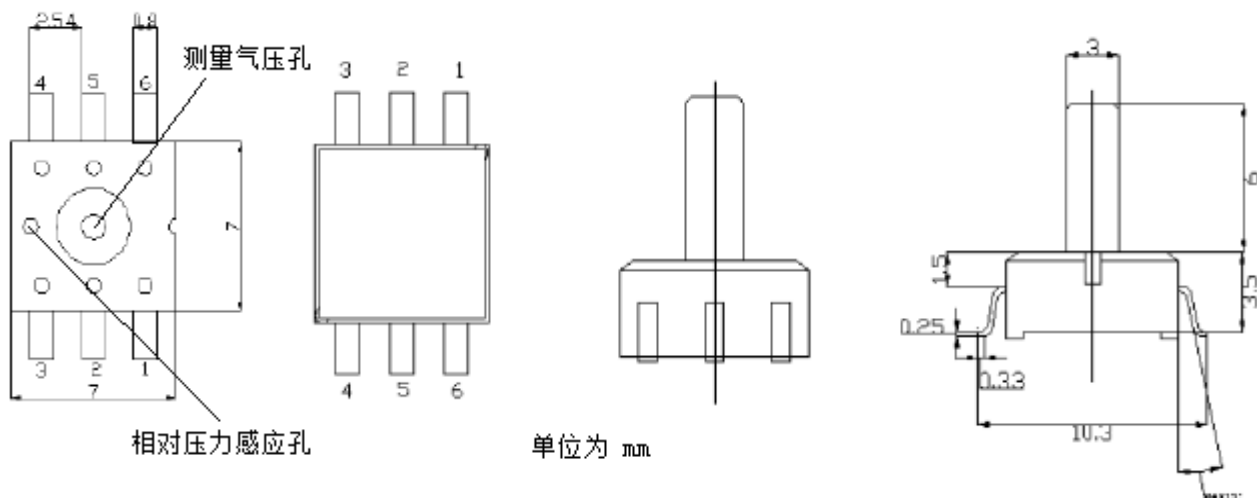
性能参数 (典型值) / Specification (Typical)

Item	Typ.
供电电源 / Power Supply	5VDC or 1mA
工作温度 / Operating temperature	-40℃~125℃
桥臂电阻 / Bridge Resistance	4.5 ~5.5KΩ
线性度 / Linearity	0.2%FS
零点输出 / Offset	<20mv
压力迟滞 / Pressure Hysteresis	<0.2 FS
温度迟滞 / Temperature Hysteresis	<0.2 FS
安全过载 / Safety Overload	3X
储存环境 / Storage Temperature	-40℃~125℃

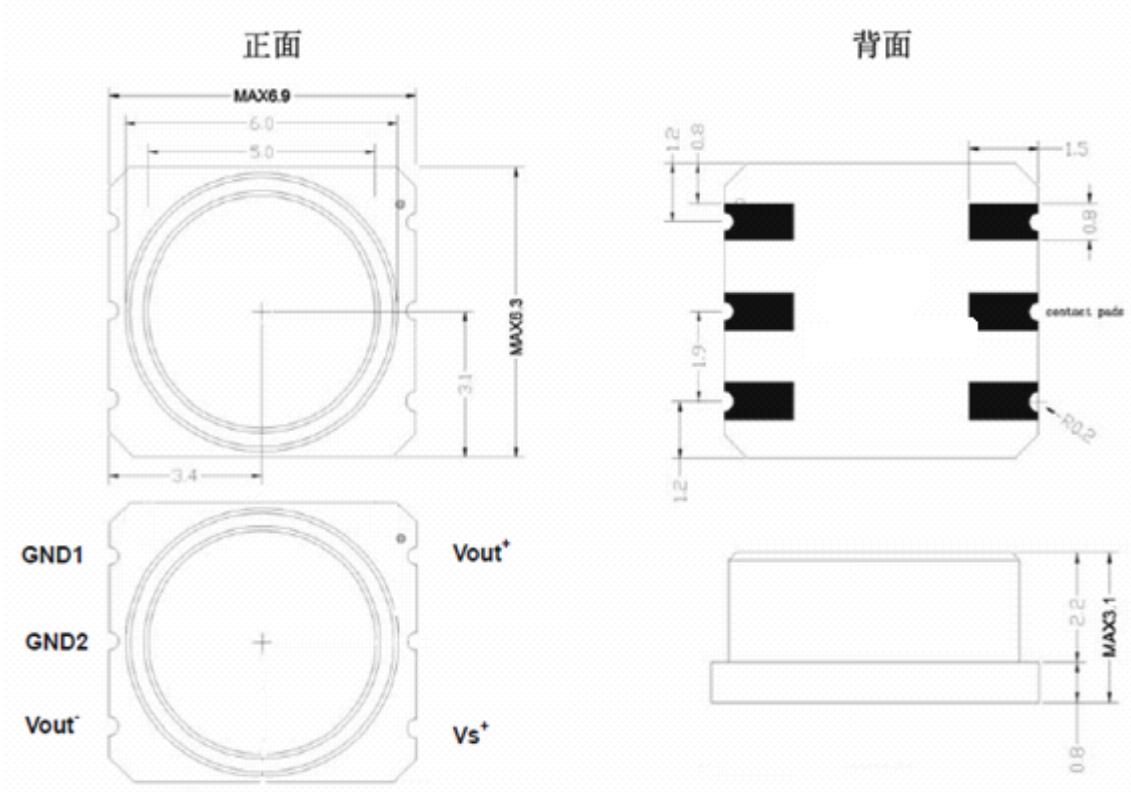
产品列表 / Sensor List

压力类型 Pressure Type	产品编号 Part Number	封装形式 Model	满量程 Pressure Range (Kpa)	满量程输出 Full Scale Span Output (mv)	零点输出 Offset Voltage (mv)	参考图片 Reference
Absolute Pressure Sensor Die	SCMAD015F	Die	100	90-130	-15~+15	
	SCMAD030F	Die	200	100-140	-15~+15	
	SCMAD070F	Die	500	40-60	-15~+15	
	SCMAD100F	Die	700	70-90	-15~+15	
	SCMAD150F	Die	1000	90-110	-15~+15	
	SCMAD300F	Die	2000	90-110	-15~+15	
Differential Pressure Sensor Die	SCMDD020K	Die	20	30-70	-15~+15	
	SCMDD040K	Die	40	60-90	-15~+15	
	SCMDD015F	Die	100	70-130	-15~+15	
	SCMDD030F	Die	200	70-130	-15~+15	
	SCMDD100F	Die	700	70-130	-15~+15	
Absolute Pressure Sensor	SCM5401AF	COB	100	90-130	-15~+15	
	SCM5402AF	COB	200	100-140	-15~+15	
	SCM5405AF	COB	500	40-60	-15~+15	
	SCM5407AF	COB	700	70-90	-15~+15	
	SCM5410AF	COB	1000	90-110	-15~+15	
	SCM5410BF	COB	1000	90-110	-15~+15	
	SCM5420AF	COB	2000	90-110	-15~+15	
Gauge Pressure Sensor	SCM53002AS	SOP	20	30-70	-15~+15	
	SCM53004AS	SOP	40	60-90	-15~+15	
	SCM53004BS	SOP	40	60-90	-15~+15	
	SCM5301AS	SOP	100	70-130	-15~+15	
	SCM5302AS	SOP	200	70-130	-15~+15	
	SCM5307AS	SOP	700	70-130	-15~+15	
	SCM5307CS	SOP	700	70-130	-15~+15	

SOP 外形尺寸 / SOP Dimension



## COB 贴片外形尺寸 / COB Dimension



## 应用领域 / Application Fields

### 汽车电子 Automotive Electronics

胎压计  
Tire Pressure Gauge  
充气泵  
Inflation Pump  
胎压计测系统  
TPMS



### 消费电子 Consumer Electronics

高度计  
Altimeter  
天气预报  
Weather Forecast  
手机  
Mobile Phone  
全球定位系统  
GPS



### 医疗设备 Medical Apparatus

血压计  
Blood Pressure Monitor  
呼吸机  
Breathing Machine



### 工业应用 Industry

仪器仪表  
Gauge  
压力变送器  
Pressure Transmitter



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