

PKS 系列压力变送器 Series sensors

编码规则 Coding structure

• PKSA BB CCC

A: 输出信号output signal, V=0.5~4.5V, C=4-20mA

BB: 最小压力 Minimum pressure,

-1= -1.0bar

00= 0.0bar

CCC: 最大压力 Maximum pressure,

128=12.8bar

200=20.0bar

345=34.5bar

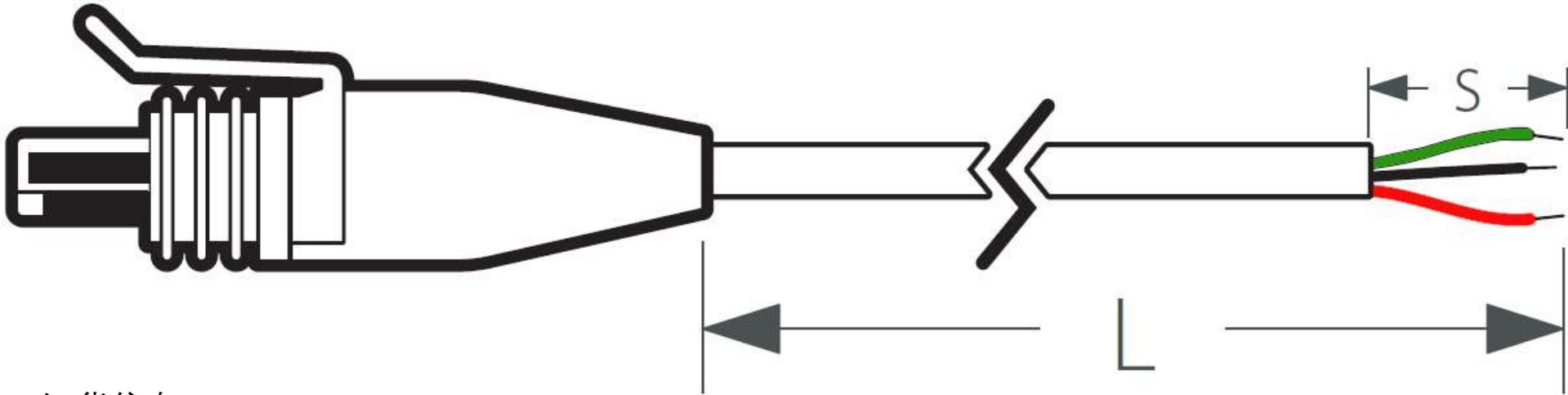
500=50.0bar



订货信息 Order info

P/N	压力范围 Pressure(bar)		过压压力 Over pressure	破坏压力 Burst pressure
	0.5V	4.5V	bar	bar
PKSV-1093	-1.0	9.3	18.6	27.9
PKSV-1128	-1.0	12.8	25.6	38.4
PKSV00200	0.0	20.0	40.0	60.0
PKSV00345	0.0	34.5	69.0	103.5
PKSV00500	0.0	50.0	100.0	150

PKS 系列线缆 Series cables



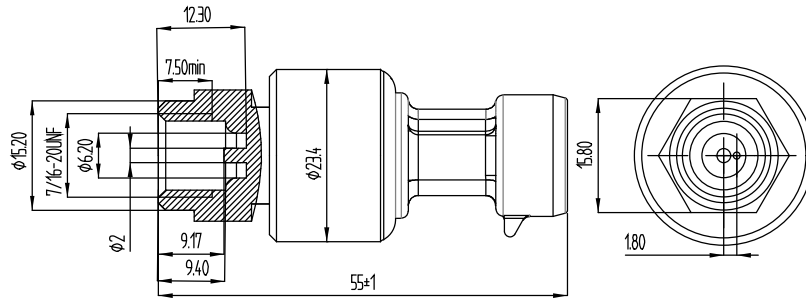
订货信息 Order info

P/N	长度 Length(L)	防护等级 Packard IP protection	电源线 VDD color	信号线 Vout color	信号地 GND color
PKSC00200	2.0M	IP65	Red	Green	Black
PKSC00500	5.0M	IP65	Red	Green	Black
PKSD00800	8.0M	IP65	Red	Green	--
PKSD01500	15.0M	IP65	Red	Green	--

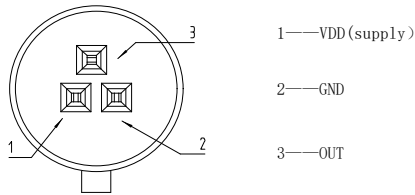
注意：三芯线适用于电压型压力变送器，二芯线适用于电流型压力变送器

NOTE: Three lines cable for 0.5V~4.5V output type only, Two lines cable for 4-20mA output type only

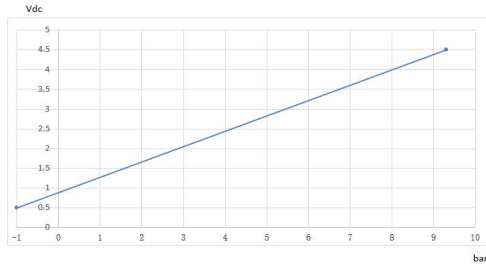
◆尺寸Dimensions (mm)



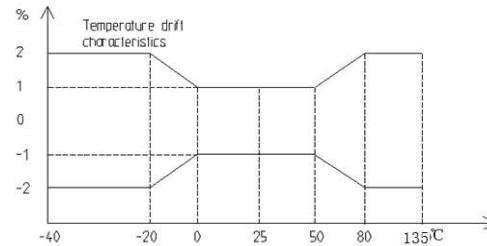
◆连接器Connections



◆性能曲线Performance



电压Voltage VS 压力Pressure



温漂Temperature drift

NOTE:

- 1、FS: 测量范围 = 最大压力-最小压力 FS: Full scale=Pmax-Pmin;
- 2、涉及的所有测量范围均为表压 All measuring ranges involved are gauge pressure;

电参数Electrical characteristics

- 供电电压Voltage supply5VDC±10%
- 工作电流Working current.....<10mA
- 输出电压Output voltage0.5~4.5VDC
- 最大供电电压Over voltage18V
- 最大反向电压Reverse voltage.....11V
- 反应时间Response time≤10ms
- 负载电阻External loading.....≥47KΩ
- 绝缘阻抗Insulation resistance.....>1 GΩ @ 50 Vdc

性能Performance

- 压力范围Pressure range..... -1.0bar~9.3bar
- 过压压力Over pressure.....18.6bar
- 破坏压力Burst pressure.....27.9bar
- 精度Accuracy..... ±1%FS (0~50℃)
- 总误差Total error band..... ±2.1%FS (-40~90℃), ±2.6%FS (90℃~135℃)
- 循环周期Life cycle.....1,000,000 times

使用环境Environmental

- 运行温度Operating temperature....(-40~135)℃
- 存储温度Storage temperature.....(-40~135)℃
- 适用冷媒compatibility.....R410A, R134A, R407C, R507, R22, R290, R32, R452A, R454B, R454C
- 运行湿度Operating humidity.....0~90%
- 防护等级IP level.....IP66

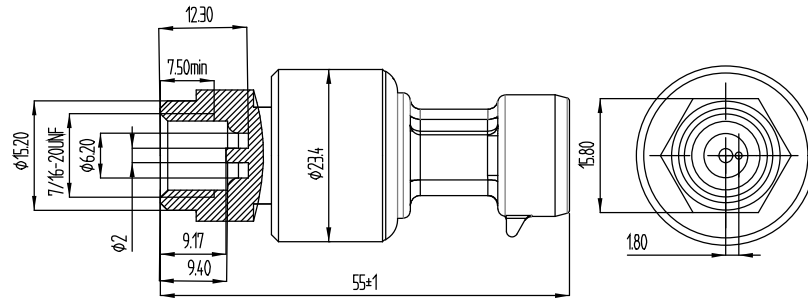
电磁兼容性EMC

- 静电ESD..... ±4 kV contact, ±8 kV in air
- 辐射抗扰度Radiated immunity.....10V/m@80MHz~1GHz, 3V/m@1.4GHz~2GHz, 1V/m@2GHz~2.7GHz.
- 浪涌Burst..... ±1KV
- 电磁场Magnetic fields.....30 A/m continuous, 300 A/m impulsive
- 传导抗扰度Conducted Immunity... 10V (150kHz~80MHz)

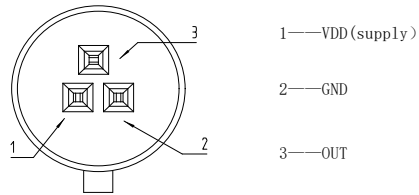
在高温或高湿储存条件下，黄铜表面易氧化变色，此属正常现象，不会影响产品的功能。
 UNDER HIGH TEMPERATURE OR HIGH HUMIDITY STORAGE CONDITIONS, THE SURFACE OF BRASS IS EASILY OXIDIZED AND DISCOLORED, WHICH IS A NORMAL PHENOMENON AND DOES NOT AFFECT THE FUNCTION OF THE PRODUCT.

					压力变送器 PRESSURE Transmitter	CORESTAR 苏州核星科技			
No.	QTY	CODE	SIGN	DATE					
DRAWN							Number	1	
ENGINEER						PKSV-1093	REV	1.0	
APPROVED									
APPROVED									

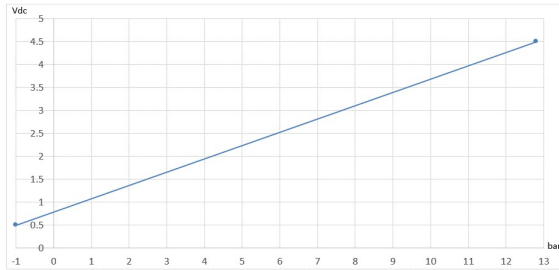
◆尺寸Dimensions (mm)



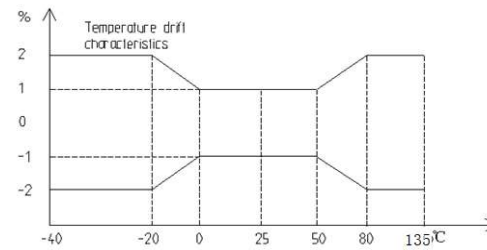
◆连接器Connections



◆性能曲线Performance



电压Voltage VS 压力Pressure



温漂Temperature drift

NOTE:

- 1、FS: 测量范围 = 最大压力-最小压力 FS: Full scale=Pmax-Pmin;
- 2、涉及的所有测量范围均为表压 All measuring ranges involved are gauge pressure;

电参数Electrical characteristics

供电电压Voltage supply	5VDC±10%
工作电流Working current	<10mA
输出电压Output voltage	0.5~4.5VDC
最大供电电压Over voltage	18V
最大反向电压Reverse voltage	11V
反应时间Response time	≤10ms
负载电阻External loading	≥47KΩ
绝缘阻抗Insulation resistance	>1 GΩ @ 50 Vdc

性能Performance

压力范围Pressure range	-1.0bar~12.8bar
过压压力Over pressure	25.6bar
破坏压力Burst pressure	38.4bar
精度Accuracy	±1%FS (0~50℃)
总误差Total error band	±2.1%FS (-40~90℃), ±2.6%FS (90℃~135℃)
循环周期Life cycle	1,000,000 times

使用环境Environmental

运行温度Operating temperature	(-40~135)℃
存储温度Storage temperature	(-40~135)℃
适用冷媒compatibility	R410A, R134A, R407C, R507, R22, R290, R32, R452A, R454B, R454C
运行湿度Operating humidity	0~90%
防护等级IP level	IP66

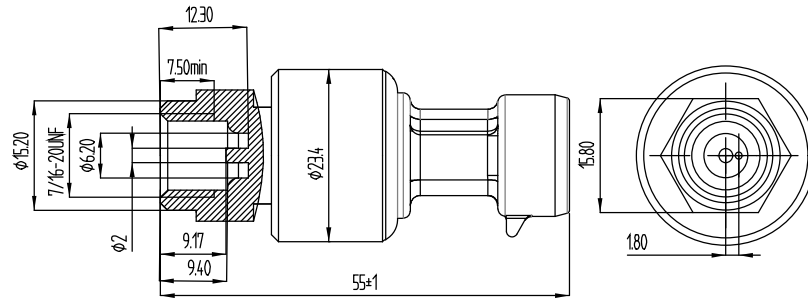
电磁兼容性EMC

静电ESD	±4 kV contact, ±8 kV in air
辐射抗扰度Radiated immunity	10V/m@80MHz~1GHz, 3V/m@1.4GHz~2GHz, 1V/m@2GHz~2.7GHz.
浪涌Burst	±1KV
电磁场Magnetic fields	30 A/m continuous, 300 A/m impulsive
传导抗扰度Conducted Immunity	10V (150kHz~80MHz)

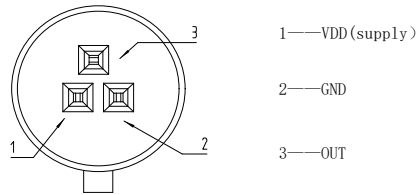
在高温或高湿储存条件下，黄铜表面易氧化变色，此属正常现象，不会影响产品的功能。
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					压力变送器 PRESSURE Transmitter	CORESTAR 苏州核星科技		
No.	QTY	CODE	SIGN	DATE				
DRAWN					PKSV-1128	Number		1
ENGINEER						REV	1.0	
APPROVED								
APPROVED								

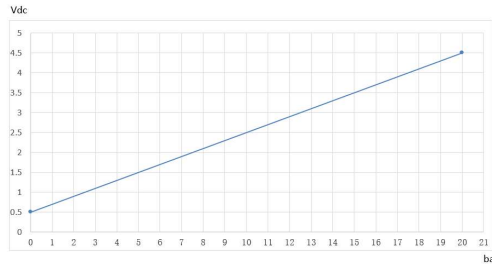
◆尺寸Dimensions (mm)



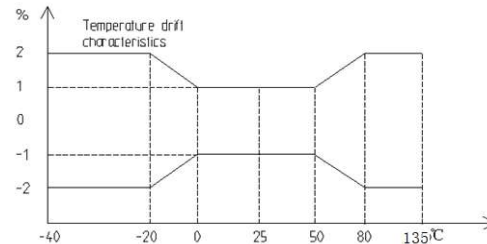
◆连接器Connections



◆性能曲线Performance



电压Voltage VS 压力Pressure



温漂Temperature drift

NOTE:

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电参数Electrical characteristics

供电电压Voltage supply	5VDC±10%
工作电流Working current	<10mA
输出电压Output voltage	0.5~4.5VDC
最大供电电压Over voltage	18V
最大反向电压Reverse voltage	11V
反应时间Response time	≤10ms
负载电阻External loading	≥47KΩ
绝缘阻抗Insulation resistance	>1 GΩ @ 50 Vdc

性能Performance

压力范围Pressure range	0.0bar~20.0bar
过压压力Over pressure	40.0bar
破坏压力Burst pressure	60.0bar
精度Accuracy	±1%FS (0~50℃)
总误差Total error band	±2.1%FS (-40~90℃), ±2.6%FS (90℃~135℃)
循环周期Life cycle	1,000,000 times

使用环境Environmental

运行温度Operating temperature	(-40~135)℃
存储温度Storage temperature	(-40~135)℃
适用冷媒compatibility	R410A, R134A, R407C, R507, R22, R290, R32, R452A, R454B, R454C
运行湿度Operating humidity	0~90%
防护等级IP level	IP66

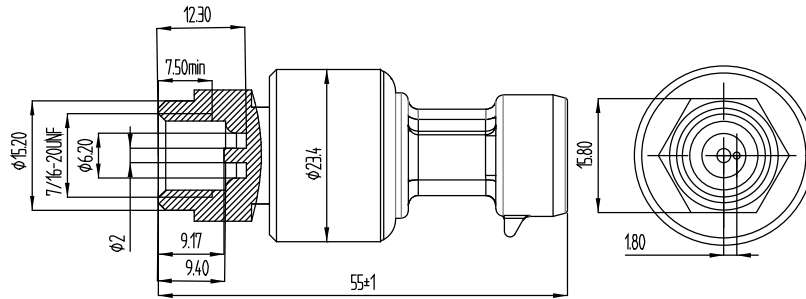
电磁兼容性EMC

静电ESD	±4 kV contact, ±8 kV in air
辐射抗扰度Radiated immunity	10V/m@80MHz~1GHz, 3V/m@1.4GHz~2GHz, 1V/m@2GHz~2.7GHz.
浪涌Burst	±1KV
电磁场Magnetic fields	30 A/m continuous, 300 A/m impulsive
传导抗扰度Conducted Immunity	10V (150kHz~80MHz)

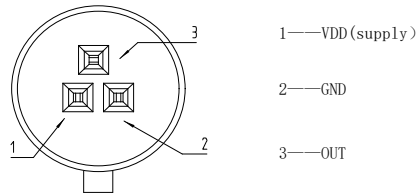
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					压力变送器 PRESSURE Transmitter	CORESTAR 苏州核星科技		
No.	QTY	CODE	SIGN	DATE				
DRAWN						PKSV00200	Number	
ENGINEER					REV		1.0	
APPROVED								
APPROVED								

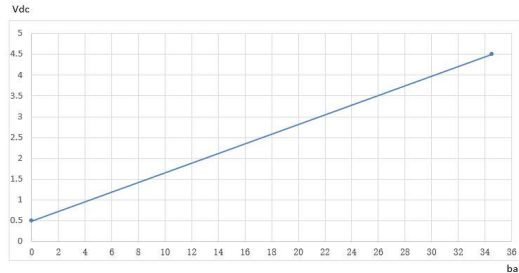
◆尺寸Dimensions (mm)



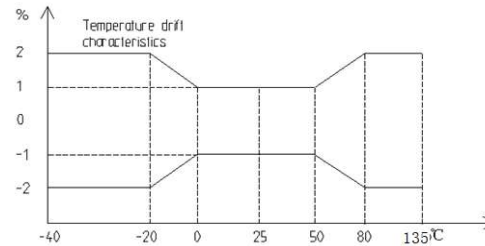
◆连接器Connections



◆性能曲线Performance



电压Voltage VS 压力Pressure



温漂Temperature drift

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电参数Electrical characteristics

供电电压Voltage supply5VDC±10%
 工作电流Working current.....<10mA
 输出电压Output voltage0.5~4.5VDC
 最大供电电压Over voltage18V
 最大反向电压Reverse voltage.....11V
 反应时间Response time≤10ms
 负载电阻External loading.....≥47KΩ
 绝缘阻抗Insulation resistance.....>1 GΩ @ 50 Vdc

性能Performance

压力范围Pressure range.....0.0bar~34.5bar
 过压压力Over pressure.....69.0bar
 破坏压力Burst pressure.....103.5bar
 精度Accuracy.....±1%FS (0~50℃)
 总误差Total error band.....±2.1%FS (-40~90℃), ±2.6%FS (90℃~135℃)
 循环周期Life cycle.....1,000,000 times

使用环境Environmental

运行温度Operating temperature....(-40~135)℃
 存储温度Storage temperature.....(-40~135)℃
 适用冷媒compatibility.....R410A, R134A, R407C, R507, R22, R290, R32, R452A, R454B, R454C
 运行湿度Operating humidity.....0~90%
 防护等级IP level.....IP66

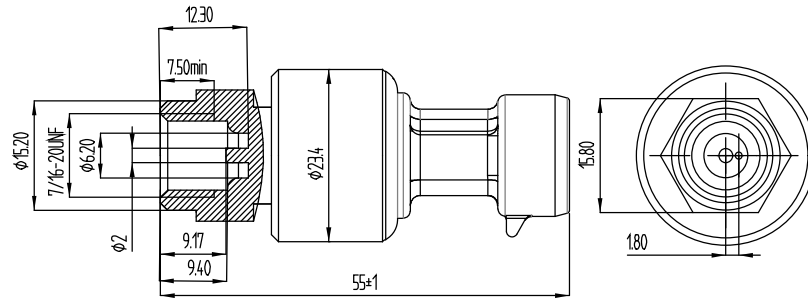
电磁兼容性EMC

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 电磁场Magnetic fields.....30 A/m continuous, 300 A/m impulsive
 传导抗扰度Conducted Immunity... 10V (150kHz~80MHz)

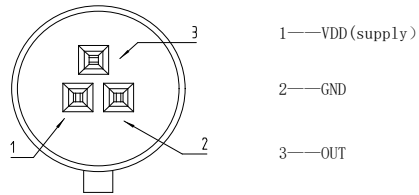
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No.	QTY	CODE	SIGN	DATE					
DRAWN									
ENGINEER							Number		1
APPROVED							REV		1.0
APPROVED					PKSV00345				

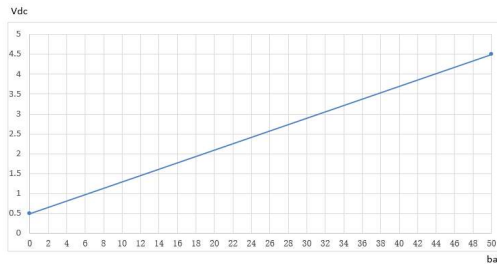
◆尺寸Dimensions (mm)



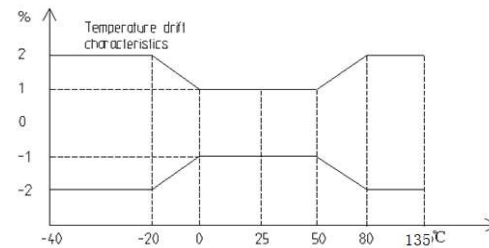
◆连接器Connections



◆性能曲线Performance



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反应时间Response time	≤10ms
负载电阻External loading	≥47KΩ
绝缘阻抗Insulation resistance	>1 GΩ @ 50 Vdc

性能Performance

压力范围Pressure range	0.0bar~50.0bar
过压压力Over pressure	100.0bar
破坏压力Burst pressure	150bar
精度Accuracy	±1%FS (0~50℃)
总误差Total error band	±2.1%FS (-40~90℃), ±2.6%FS (90℃~135℃)
循环周期Life cycle	1,000,000 times

使用环境Environmental

运行温度Operating temperature	-40~135℃
存储温度Storage temperature	-40~135℃
适用冷媒compatibility	R410A, R134A, R407C, R507, R22, R290, R32, R452A, R454B, R454C
运行湿度Operating humidity	0~90%
防护等级IP level	IP66

电磁兼容性EMC

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浪涌Burst	±1KV
电磁场Magnetic fields	30 A/m continuous, 300 A/m impulsive
传导抗扰度Conducted Immunity	10V (150kHz~80MHz)

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No.	QTY	CODE	SIGN	DATE				
DRAWN					PKSV00500	Number		1
ENGINEER						REV	1.0	
APPROVED								
APPROVED								