



规格

- 高精度
- 紧凑坚固
- 各种压力接口及输出接口
- 阻尼可选
- CE及防水验证
- 表压，复合压模式
- 高可靠性

特性

- 重工领域应用
- 一体式压力腔体，无泄漏
- 反向保护
- 输出短路保护
- 非线性精度可达±0.25%
- 综合精度可达±1.0%
- 紧凑坚固
- -50°C to +120°C工作温度

应用

- 工业压力控制及检测
- 高端的暖通空调系统
- 制冷系统
- 自动测试平台
- 越野车辆
- 泵及压缩机
- 液压/气动系统
- 农业机器设备
- 能源生产及管理

标准压力规格

压力范围(psi)	压力范围 (Bar)	表压	密封压	绝压	混合压
0 to 100	0 to 7	•			
0 to 150	0 to 10	•			
0 to 250	0 to 17	•			•
0 to 500	0 to 35	•			•
0 to 1000	0 to 70	•			•
0 to 1500	0 to 100	•			•
0 to 2250	0 to 150	•			•
0 to 3000	0 to 200	•			•
0 to 5000	0 to 350	•			•
0 to 7500	0 to 500	•			•
0 to 10000	0 to 700	•			
0 to 15000	0 to 1000	•			●S
0 to 22000	0 to 1500	•			●S
0 to 35000	0 to 2500	•			●S

其它中间量程可定制。

Intermediate ranges available upon request.

性能规格

Ambient Temperature: 25°C (unless otherwise specified)

参数	最小	典型	最大	单位	备注
精度 包括非线性 迟滞, 回程	-0.3	±0.25	0.3	%F.S. BFSL	
绝缘度 (信号线相对壳体)	200			MΩ	@500VDC
介电强度			2	mA	@500VAC, 1min
压力循环寿命	1X10 ⁶				零到满量程压力循环
过载压力	2X		20k psi	Rated	
破坏压力	3X		20k psi	Rated	
长期稳定性(年)	-0.25		0.25	%F.S	
综合精度	-1.5	±1	1.5	%F.S	补偿温度范围内
补偿温度范围	-10		70	°C	
工作温度范围	-30		120	°C	
储存温度范围	-40		+130	°C	
负载 (RL)	RL > 100k			Ω	电压输出
负载 (RL)	< (供电电压-9V) / 0.02A			Ω	电流输出
功耗电流			10	mA	电压输出
响应时间 (10% to 90%)	<2ms (电压输出); <3ms (电流输出);无阻尼				
膜片材料	17-4PH				
冲击	50g, 11msec Half Sine Shock per MIL-STD-202G, Method 213B, Condition A				
震动	±20g, MIL-STD-810C, Procedure 514.2-2, Curve L				

For custom configurations, consult factory.

Notes

Compensated Temperature: The temperature range over which the product will produce an output proportional to pressure within the specified performance limits.

Operating Temperature: The temperature range over which the product will produce an output proportional to pressure but may not remain within the specified performance limits.

Storage Temperature: The temperature range over which the product can be stored safely in occasions without pressure applied or power input and remains rated performance. Beyond this temperature range may cause permanent damage to the product.

All configurations are built with supply voltage reverse and output short-circuit protections.

CE声明 (仅供参考)

EN 55022 Emissions Class A & B

IEC 61000-4-2 Electrostatic Discharge Immunity (8kV contact/15kV air)

IEC 61000-4-3 Radiated, Radio-Frequency Electromagnetic Field Immunity (10V/m, 80M-1GHz)

IEC 61000-4-4 Electrical Fast Transient Immunity (1kV)

IEC 61000-4-5 Surge Immunity (V+ to V-: ±2KV/42Ω; L to Case: ±1KV/12Ω; V- to V0: ±1KV/42Ω)

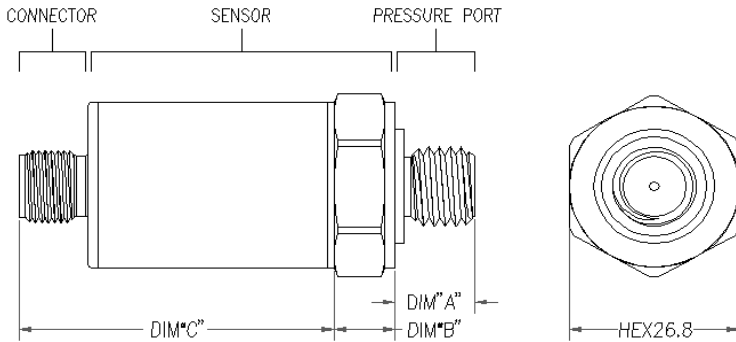
IEC 61000-4-6 Immunity to Conducted Disturbances Induced by Radio Frequency

Fields (150K-80MHz, 10V level for voltage output models, 3V level for current output model)

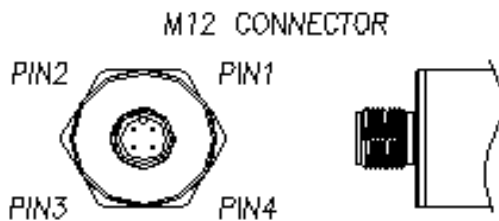
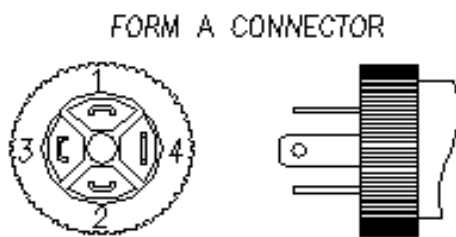
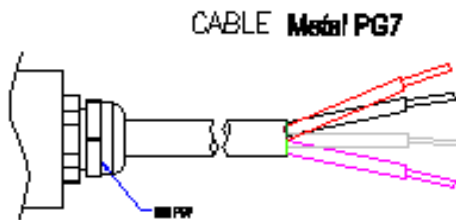
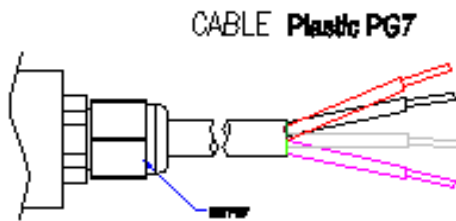
IEC 61000-4-9 Pulse Magnetic Field Immunity (100A/m peak)

For all CE compliance tests, max allowed output deviation ±1.5 %F.S.

尺寸: [mm]



编号	连接器类型	尺寸 C (最大)
1	电缆线 3 FT	1.97 [50.0]
2	电缆线 10 FT	1.97 [50.0]
3		
4	M12连接器	1.85 [47.9]
5	FORM A 连接器	2.05 [52.0]



编号	压力接口类型		
	接口	尺寸 "A"	尺寸 "B"
1	G1/4 JIS B2351	0.512 [13.00]	0.3 [8.0]
2	M20 x 1.5 mm ISO 6149-2	0.661 [16.8]	0.3 [8.0]
3	1/4-18 NPT	0.600 [15.24]	0.3 [8.0]
4	7/16-20UNF FEMALE SAE J513 STRAIGHT THREAD WITH INTEGRAL VALVE DEPRESSOR	0.687[17.5]	0.3 [8.0]
5	M14 x 1.5 mm ISO 6149-2	0.433[11.0]	0.3 [8.0]
6	1/8-27 NPT	0.390[9.91]	0.3 [8.0]
7	M12 x 1.5 mm ISO 6149-2	0.433[11.0]	0.3 [8.0]
8	M10 x 1.0 mm ISO 6149-2	0.374[9.5]	0.3 [8.0]
9	G1/4 DIN 3852 FORM E GASKET DIN3869-14 NBR	0.512 [13.00]	0.3 [8.0]

防水等级

防护等级	
连接器	等级
电缆线	IP67
M12连接器	IP67
FORM A连接器	IP65

输出

编号	输出	供电
1	0.5 - 4.5V	5 ± 0.25V
	RATIOMETRIC	PROTECTED to 16V
2	1 - 5V	8 - 36V
3	4 - 20mA	9 - 36V
4	0 - 5V	8 - 36V
5	0 - 10V	13 - 36V
6	1 - 6V	8 - 36V
7	0.5 - 4.5V	7.5- 36V
8	I ² C	3.3V or 5V

出线定义

电流输出接线					
连接器	供电+	输出+	孔. PINS		P REF VENT
M12	1	2	3,4		Hole Through Connector
FORM A	1	2	3,4		
电缆线(金属PG7)	红	黑			Pipe In 电缆线
电缆线(塑料PG7)	红	黑			
电压输出接线					
连接器	供电+	输出+	公地	空. PINS	P REF VENT
M12	1	3	2	4	Hole Through Connector
FORM A	1	3	2	4	
电缆线(金属PG7)	红	白	黑		Pipe In 电缆线
电缆线(塑料PG7)	红	白	黑		

连接器

连接器类型			
连接器	描述	MATING HOUSING P/N	MATING TERMINAL PIN
PG7			
M12	BINDER SERIES 713, 09 3431 77 04 OR EQUIV	4-POS FEMALE连接器	
FORM A	OMAL ARB03S or ARB03R	OMAL AHB6733 3+PE	

Note: Transmitter of gage pressure type requires vent to atmosphere on the pressure reference side. This is accomplished via 电缆线 from the transmitter (the end of the 电缆线 should be terminated to clean and dry area) or through the customer mating 连接器/电缆线 assembly which has internal vent path.

订购信息

M51	3	5	1	0	1	9	035B	G
型号	输出	连接器	压力接口材料	阻尼	标签	压力接口	压力范围	压力模式
M51	1: 0.5 - 4.5V RATIOMETRIC	1: 电缆线 (PG7金属)	1: 17-4PH	0: No Snubber	0: No Lable (OEM)	1: G1/4 JIS B2351 2: M20 x 1.5 3: 1/4-18 NPT 4: 7/16-20UNF FEMALE SAE 5: M14 x 1.5 6: 1/8-27 NPT 7: M12 x 1.5 8: M10 x 1.0 9: G1/4 DIN 3852 A: G3/8 JIS B2351 X: 客户定制	35Bar B: Bar M: Mpa P: PSI K: Kpa	G: 标压
	2: 1 - 5V	2: 电缆线 (PG7塑料)	2: SST316L	1: Witn Snubber	1: Adhesive Labe			C: 复合压
	3: 4 - 20mA		3: SST304		2: Laser Marking			
	4: 0 - 5V	4.M12连接器	X:Customer Special					
	5: 0 - 10V	5: FORM A						
	6: 1 - 6V							
	7: 0.5 - 4.5V							
	8: I ² C							
	X: Customer							

注意: I2C 参数需联系工厂确认(5Pin或者5线)