



规格

- 高精度
- 紧凑坚固
- 各种高压密封压力接口可选
- 阻尼可选
- CE及防水验证
- 高可靠性

特性

- 重工领域应用
- 一体成型压力腔体，无泄漏，高可靠性
- 反向保护
- 输出短路保护
- 非线性精度可达±0.1%
- 综合精度可达±1.0%
- 紧凑坚固
- -50°C to +120°C工作温度

应用

- 高压水刀切割，水刀机
- 军事装备
- 大型液压机
- 超高增压泵
- 万吨龙门吊
- 高压清洗
- 高压水射流

标准压力规格

压力范围(MPa)	压力范围 (Bar)
0 to 150	0 to 1500
0 to 250	0 to 2500
0 to 350	0 to 3500
0 to 500	0 to 5000
0 to 750	0 to 7500
0 to 1000	0 to 10000

其它量程请咨询

性能规格

Ambient Temperature: 25°C (unless otherwise specified)

PARAMETERS	最小	典型	最大	单位	备注
精度 包括非线性	-0.5	±0.25	0.5	%F.S. BFSL	
迟滞, 回程	-0.2	±0.1	0.2		
绝缘度 (信号线相对壳体) 压力循环寿命	200			MΩ	@250VDC
过载压力	1X10 ⁶			零到满量程压力循环	
破坏压力	2X			Rated	
长期稳定性(年)	3X			Rated	不超过螺纹连接强度
综合精度		±0.25		%F.S	
补偿温度范围		±1		%F.S	
工作温度范围	-2.00		2.00	°C	补偿温度范围内
储存温度范围	0		70	°C	
负载 (RL)	-40		120 +	°C	
负载 (RL)	-55		130	Ω	
功耗电流	RL > 100k			Ω	
响应时间 (10% to 90%)				mA	电压输出
膜片材料	< (供电电压-9V) / 0.02A				电流输出
冲击			10		电压输出
震动	<2ms (电压输出); <3ms (电流输出);无阻尼				
	17-4PH (进口卡本特)				
	50g, 11msec Half Sine Shock per MIL-STD-202G, Method 213B, Condition A ±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

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)

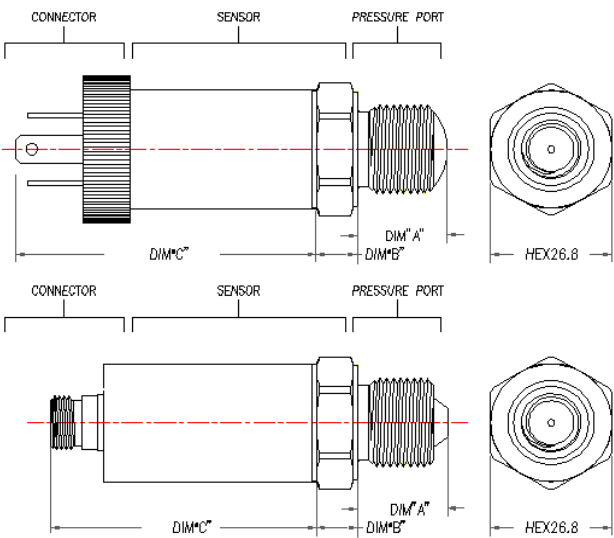
IEC 61000-4-5 Surge Immunity (V+ to V-: ±2KV/42Ω; L to Case: ±1KV/12Ω; V- to V0: ±1KV/42Ω)IEC 61000-4-6 Immunity to Conducted Disturbances Induced by Radio Frequency

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

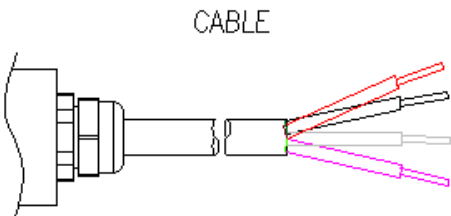
IEC 61000-4-9 Pulse Magnetic Field Immunity (100A/m peak)

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

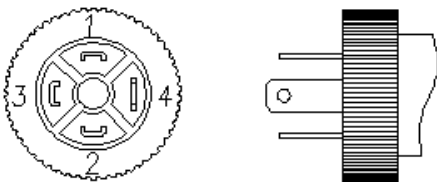
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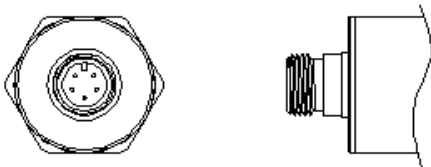
编号	连接器类型	尺寸 C (最大)
1	电缆线 3 FT	2.84 [72.0]
2	电缆线 10 FT	2.84 [72.0]
3	XS12 连接器	2.60 [66.0]
4	M12 连接器	2.60 [66.0]
5	FORM A 连接器	2.83 [71.0]



FORM A CONNECTOR



XS12 CONNECTOR



压力接口类型

编号	压力接口类型		
	接口	尺寸 "A"	尺寸 "B"
1	G1/2	0.952 [24]	0.393 [10.0]
2	M20 x 1.5 mm ISO 6149-2	0.952 [24]	0.393 [10.0]
3	UNF3/4-16	0.952 [24]	0.275 [10.0]
X	客户定制		

防护等级

防护等级	
连接器	等级
M12 连接器	IP67
PG7 电缆线	IP67
XS12 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

出线定义

电流输出接线					
连接器	供电+	输出+	孔. PINS		P REF VENT
XS12	1	2	3 , 4 , 5		NA
FORM A	1	2	3 , 4		
电缆线(金属PG7)	红	黑			NA
M12 连接器	1	2	3 , 4		
电压输出接线					
连接器	供电+	输出+	公地	空. PINS	P REF VENT
XS12	1	3	2	4 , 5	NA
FORM A	1	3	2	4	
电缆线(金属PG7)	红	白	黑		NA
M12 连接器	1	3	2	4	

连接器

连接器类型			
连接器	描述	MATING HOUSING P/N	MATING TERMINAL PIN
PG7			
XS12	2T-8T圆螺口式（5芯）	厂家配线，订货时请联系	
M12	BINDER SERIES 713, 09 3431 77 04 OR EQUIV	4-POS FEMALE CONNECTOR	
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. Suggested vented M12 mating

选型码

HP10	3	3	1	1	9	500M	
型号	输出	连接器	压力接口材料	阻尼	压力接口	压力范围	压力模式
HP10	1:0.5 - 4.5V RATIOMETRIC	1: 电缆线（PG7金属）	1.17-4 压力接头膜片	0: 无阻尼	1: G1/2 2:M20 x 1.5 3:UNF3/4-16X:Customer	500MPa	参考模式对输出无影响
	2: 1 - 5V	2: 电缆线（PG7塑料）		1: 阻尼螺钉			
	3: 4 - 20mA	3:XS12 连接器					
	4: 0 - 5V	4: M12连接器					
	5: 0 - 10V	5: FORM A					
	6: 1- 6V	X:客户定制					
	7: 0.5 - 4.5V						
	X:客户定制						
						B: Bar M: Mpa	