



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

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 |

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

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

其它量程可咨询工厂

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)     | 200                                                                    |       |      | MΩ         | @250VDC   |
| 压力循环寿命            | 1X10 <sup>6</sup>                                                      |       |      |            | 零到满量程压力循环 |
| 过载压力              | 2X                                                                     |       |      | Rated      |           |
| 破坏压力              | 3X                                                                     |       |      | Rated      | 不超过螺纹连接强度 |
| 长期稳定性(年)          | -0.25                                                                  |       | 0.25 | %F.S       |           |
| 综合精度              | -2.00                                                                  | ±1    | 2.00 | %F.S       | 补偿温度范围内   |
| 补偿温度范围            | 0                                                                      |       | 70   | °C         |           |
| 工作温度范围            | -40                                                                    |       | 120  | °C         |           |
| 储存温度范围            | -55                                                                    |       | +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 (进口卡本特)                                                         |       |      |            |           |
| 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

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)

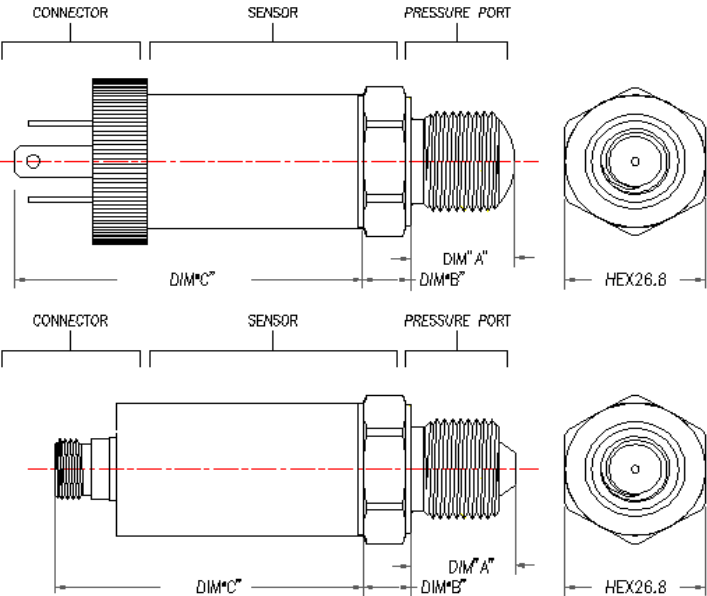
IEC 61000-4-6 Immunity to Conducted Disturbances Induced by Radio Frequency

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

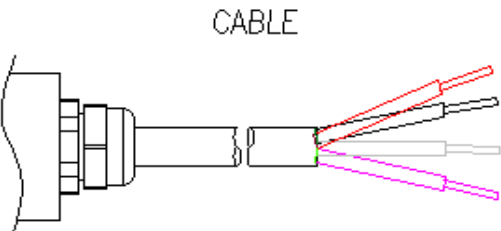
IEC 61000-4-9 Pulse Magnetic Field Immunity (100A/m peak)

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

尺寸: [mm]



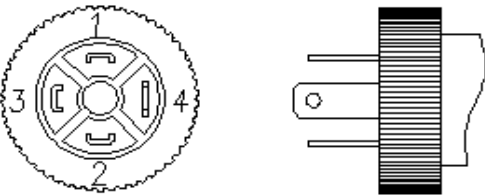
| 编号 | 连接器类型      | 尺寸 C (最大)   |
|----|------------|-------------|
| 1  | 电缆线 3 FT   | 2.84 [72.0] |
| 2  | 电缆线 10 FT  | 2.84 [72.0] |
| 3  |            |             |
| 4  | XS12 连接器   | 2.60 [66.0] |
| 5  | FORM A 连接器 | 2.83 [71.0] |



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  | 3:UNF3/4-16             | 0.952 [24] | 0.275 [10.0] |
| X  | 客户定制                    |            |              |

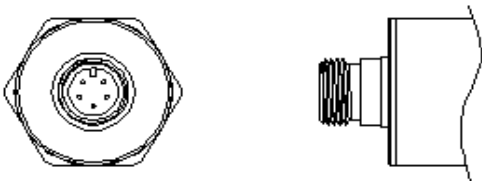
FORM A CONNECTOR



防水等级

| 防护等级       |      |
|------------|------|
| 连接器        | 等级   |
| PG7 电缆线    | IP67 |
| XS12 连接器   | IP67 |
| FORM A 连接器 | IP65 |

XS12 CONNECTOR



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   |         |            |
| FORM A     | 1   | 2   | 3,4     |         |            |
| 电缆线(金属PG7) | 红   | 黑   |         |         |            |
|            |     |     |         |         |            |
| 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     |            |
| FORM A     | 1   | 3   | 2       | 4       |            |
| 电缆线(金属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    |                       |                    |                     |
| XS12   | 2T-8T圆螺口式（5芯）         | 厂家配线，订货时请与工厂联系     |                     |
| 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

|      |                           |               |        |         |             |                                                        |                            |            |
|------|---------------------------|---------------|--------|---------|-------------|--------------------------------------------------------|----------------------------|------------|
| MU51 | 3                         | 4             | 1      | 0       | 0           | 9                                                      | 500M                       |            |
| 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       |
| MU51 | 1: 0.5 - 4.5V RATIOMETRIC | 1: 电缆线（PG7金属） | 1.17-4 | 0: 无阻尼  | 0: 无标签（OEM） | 1: G1/2<br>2: M20 x 1.5<br>3: UNF3/4-16<br>X: Customer | 500MPa<br>B: Bar<br>M: Mpa | 参考模式对输出无影响 |
|      | 2: 1 - 5V                 | 2: 电缆线（PG7金属） |        | 1: 有阻尼塞 | 1: 不粘胶      |                                                        |                            |            |
|      | 3: 4 - 20mA               |               |        |         | 2: 激光打标     |                                                        |                            |            |
|      | 4: 0 - 5V                 | 4: XS12 连接器   |        |         |             |                                                        |                            |            |
|      | 5: 0 - 10V                | 5: FORM A     |        |         |             |                                                        |                            |            |
|      | 6: 1 - 6V                 |               |        |         |             |                                                        |                            |            |
|      | 7: 0.5 - 4.5V             |               |        |         |             |                                                        |                            |            |
|      | X: 客户定制                   |               |        |         |             |                                                        |                            |            |