

Attentions

1. Please be sure that the measured media is compatible with sensor material.
2. please pay attention to the use of this product when the normal use of conditions:
Power Supply: $\leq 2.0\text{mADC}$ or $\leq 10\text{VDC}$.
Working Temp、Storage Temp Range: $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$
3. Please pay attention to the pressure measurement range, actual max. measured differential pressure should not be exceeding 80% of the full range. Static pressure $\leq 20\text{MPa}$.
4. To prevent any damage, uneven pressure to the diaphragm is prohibited .
5. During application, please note the high and low sides of the differential sensor. They are marked "H" and "L" on the body separately. Make sure the pressure on the high side should be higher than that of the low side.
6. Please do not pull the 6 leading wires.
7. Prohibit any wet, conductive or corrosive media entering into the electric connection part of the sensor.

Definition

| | |
|-------------------|-----------------------------|
| NL: Non-linearity | SPAN: FS Output |
| RP: Repeatability | TCZ: Zero Temp. Coefficient |
| HY: Hysteresis | TCSP: FS Temp. Coefficient |

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Website: <http://www.microsensor.cn>

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MDM291 Differential Pressure Transducer



MICRO SENSOR CO.,LTD.



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Introduction

MDM291 piezoresistive differential pressure transducer is an OEM differential pressure measure element using stainless steel isolated diaphragm, all welding construction and having no O-rings. It has unified construction, higher static pressure, good stability and reliability. The high and low pressure sides are both protected by isolated diaphragm and welded with male screw thread pressure port, therefore the two pressure sides are both possible to corrosive and conductive liquid media. The measured pressure is transmitted onto the die through isolated diaphragm and filling silicon oil. The sensor element choose high accuracy and high stability silicon die. It achieves precise differential pressure measurement. The transducer is produced in advanced production line, through automatic computer testing and temperature compensation, so it has good temperature feature. It can be widely used in industrial process control field etc. for differential pressure measurement.

Features

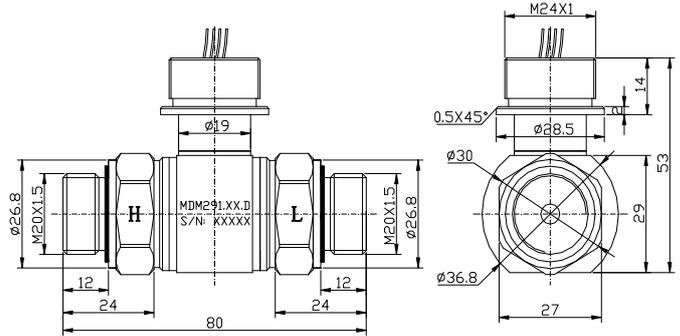
- Pressure range: 0kPa~35kPa...2MPa
- OEM differential pressure transducer
- All welding construction using stainless steel material
- Tantalum diaphragm is option
- Constant Power supply $\leq 2.0\text{mADC}$
- Computer automatic testing specifications
- Temperature compensation for Zero and FS

Electric Connection

| wire color | Electric definition |
|---------------|---------------------|
| Yellow(white) | -IN |
| black | +IN |
| red | +OUT |
| blue | -OUT |

Outline Construction

(Unit:mm)



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