JISS610 Differential Pressure Transmitter

Features

- 316L stainless steel diaphragm structure
- Differential pressure measurement
- Easy to install
- Short circuit protection and reverse polarity protection
- Excellent shock resistance, vibration resistance and electromagnetic compatibility resistance
- Customization available

Applications

- Equipment support
- Scientific experiment
- Precision instrument
- Water supply and drainage
- Power plant differential pressure
- Flow

Notes:

1 Do not touch the diaphragm with hard objects, which may cause damage to the diaphragm.

2 It is recommended to install three-valve manifold when using this product.

3 Please read the Instruction Manual of the product carefully before installation and check the relevant information of the product.

4 Strictly follow the wiring method for wiring, otherwise it may cause product damage or other potential faults.

Product overview

JISS610 Differential Pressure Transmitter is assembled using an OEM piezoresistive silicon differential pressure sensor filled with oil. The shell is made of stainless steel and has strong corrosion resistance. The two pressure ports are threaded and can be mounted directly on the measuring pipe or connected through the pressure pipe. JISS610 series have standard voltage/current output options, which can be easily installed and used. The products are widely used in the measurement and control of differential pressure, liquid level and flow in process control, aviation, aerospace, automotive, medical equipment, HVAC, etc.

Notes:

1 Do not misuse documentation.

2 The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.

3 Complete installation, operation, and maintenance information is provided in the instructions of the product.

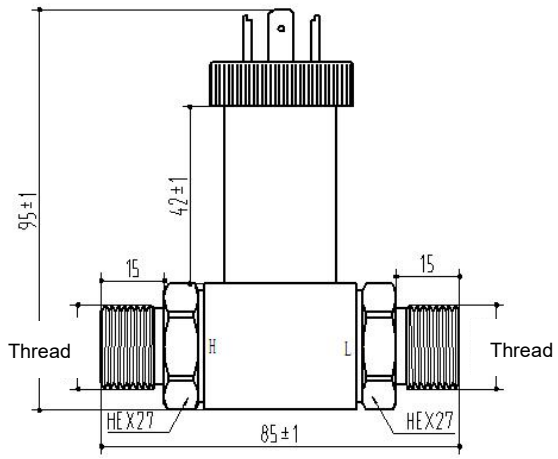
4 Misuse of the product may cause danger or personal injury.

Performance parameters	
Pressure range	0~10kPa…2.5MPa
Static pressure	10MPa(Max.)
Pressure reference	Differential pressure
Supply & output	Supply:16-36VDC;Output:4-20mA Supply:12~36VDC;Output:1~5V, 0~5V

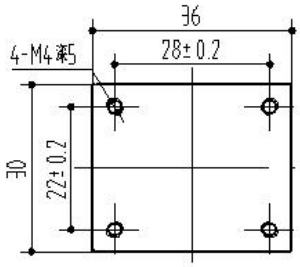
Performance parameters (cont.)	
Accuracy	0.5%FS(typ.)
Temp. drift	1.5%FS(@-10℃~70℃)
Response time	<2ms(Up to 90%FS)
Durability	≥10^6 pressure cycles
Ambient temp.	-10℃~70℃
Medium temp.	-10℃~70℃
Storage temp.	-40℃~125℃
EMC-interference	IEC 61000-6-3
EMC-immunity	IEC 61000-6-2
Insulation resistance	100MΩ/250VDC
Shock	10g/11ms;IEC 60068-2-27
Protection	IP65
Material	304
Max. mounting torque	25Nm

Structure&Dimension

Dimension
In mm

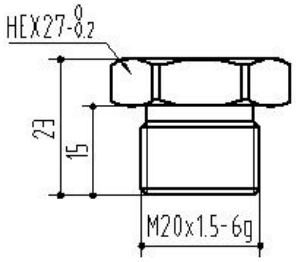
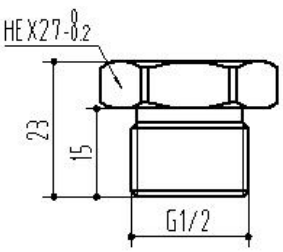
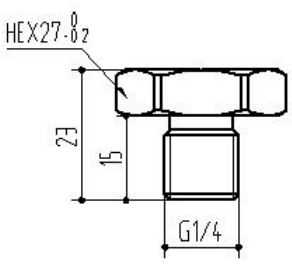


Structure & dimension

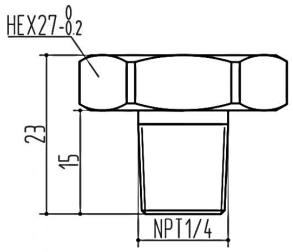
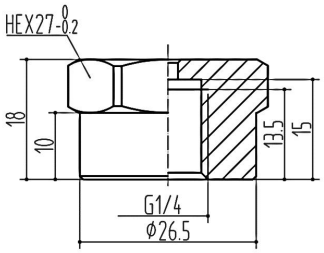
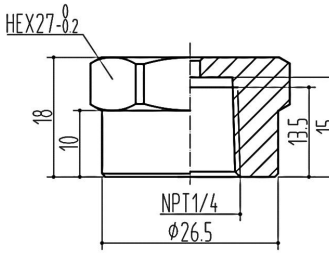
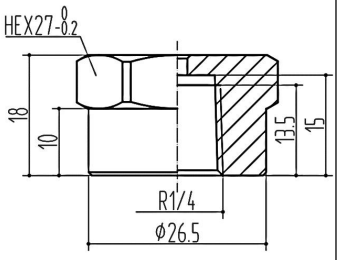
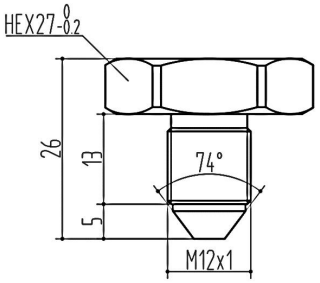


Bottom installation

Pressure port

Connector code	C1: M20×1.5-6g	C2: G1/2	C3: G1/4
Dimension In mm			
Recommended torque	15~25Nm	15~25Nm	15~25Nm

Pressure port (cont.)

Connector code	C5: NPT1/4, Z1/4	C3F：G1/4(Fmale)	C5F: NPT1/4(Fmale)
Dimension In mm			
Recommended torque	15~25Nm	15~25Nm	15~25Nm
Connector code	**C6F: R1/4(Fmale)**	**C35: M12×1**	
Dimension In mm			
Recommended torque	15~25Nm	15~25Nm	

Note: Torque depends on various factors such as material of gasket, supporting materials, lubrication of thread and pressure.

Pressure range selection

Pressure range code	Pressure range	Positive overpressure	Negative overpressure	Remark
10k	0~10kPa	300%FS	300%FS	
20k	0~20kPa	300%FS	300%FS	
35k	0~35kPa	300%FS	300%FS	
70k	0~70kPa	300%FS	300%FS	
100k	0~100kPa	300%FS	300%FS	
200k	0~200kPa	300%FS	300%FS	
250k	0~250kPa	200%FS	200%FS	
500k	0~500kPa	200%FS	200%FS	
0.6M	0~0.6MPa	200%FS	200%FS	
1M	0~1MPa	200%FS	150%FS	
1.6M	0~1.6MPa	200%FS	150%FS	
2.5M	0~2.5MPa	200%FS	150%FS	

Accessory

Name	Appearance	Description	Item number
DIN43650		OMAL	100040301013
LCD display		LCD12	100040100008

How to order

JISS610 - 35k B1 C3 J5

Product model
JISS610

Pressure range
Refer to “Pressure range selection”on page 3

Output signal
B1: 4~20mA
B2: 1~5V
B3: 0~5V

Electrical connection
J5: DIN43650

Pressure connection
C1: M20×1.5-6g
C2: G1/2
C3: G1/4
C3F: G1/4(Fmale)
C5: NPT1/4、Z1/4
C5F: NPT1/4(Fmale)
C6F: R1/4(Fmale)
C35: M12×1

Example:JISS610-35kB1C3J5
JISS610: product model. 35k: pressure range 0~35kPa. B1: output signal 4-20mA. C3:Pressure connection G1/4. J5: electrical connection DIN43650.