Foshan Shunde Zhongjiang Energy Saving Electronic Co.,Ltd

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DATA SHEET

Paddle Wheel Flow Sensor

Series No.: ZJSUS

*** ORIGINAL DESIGN**

Durable STAINLESS STEEL material ; High accuracy measurement.

*** Large Flow Measurement**

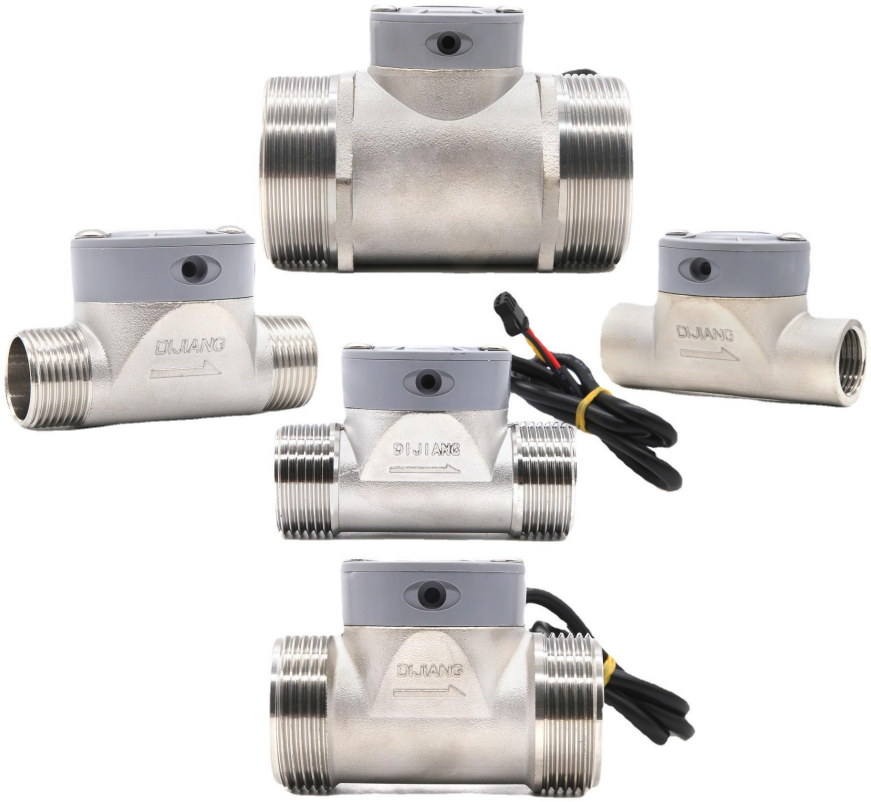
Fluid Water

*** IMPORTED CHIP**

Hall Effect; Sensitivity; Quick response.

*** ISO 9001 : 2015**

CE, ROS, REACH, FDA



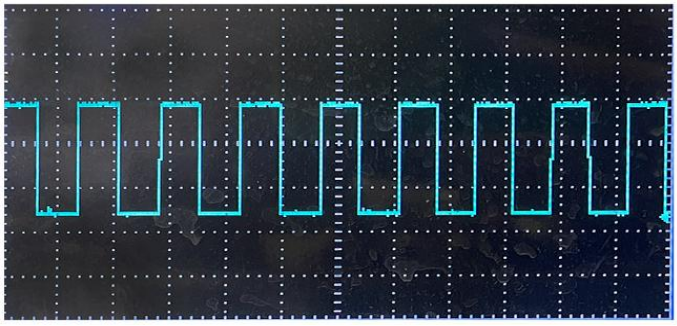
一、Product Introduction

Oval Gear Sensor is mainly consists of stainless steel valve body, paddle wheel turbine assembly and hall sensor. It is installed in the water inlet end for detecting water flow. When fuel diesel oil flow through the gear, the gear will rotate and it speed will change as the flow rate. The hall sensor outputs an electrical pulse with every revolution and feedback to controller, then the controller will control the flow.

二、Cautions

- Strong impact and chemical erosion are strictly prohibited.
- Its characteristic may change if magnetic material closed to the sensor.
- Recommended vertical installation,the inclination does not exceed 5 degrees.
- Medium temperature should not exceed 80℃.

三、Output Square Wave Diagram



Duty Cy=40%～60%

四、Wire Connection

RED - IN (+)

YELLOW - OUTPUT signal

BLACK - GND (-)

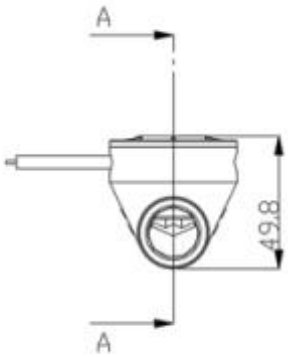
五、Specification

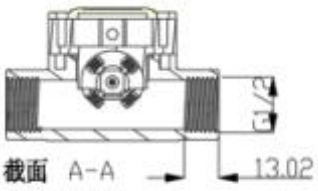
Range of Application		Filling Machine, Farm/Garden Irrigation, Heaters..etc.
BASIC	1、Material	#304 Stainless Steel
	2. Port Connection	G1/2'', G3/4'', G1'', G1.25'', G2''
	3、Customized Voltage	Low Powered / 24V
	4、Operating Voltage	DC3.5 - 24V
	5、Working Current	≦10mA (DC5V)
	6、Max Working Voltage	15mA (DC5V)
	7、Working Temperature	-20 ~ 80℃
	8、Liquid Temperature	≦80℃ **(can be customized ≦100℃)**
	9、Humidity Range	35% ~ 95RH (no frost)
	10、Max Pressure	≦1.75MPa
TECHNICAL	1、Output Pulse High Level	> DC4.7V (input DC5V)
	2、Output Pulse Low Level	< DC0.5V (input DC5V)
	3、Flow Rate	As below chart
	4、Output Pulse Duty Cycle	50 ± 10%
	5、Output Raise Time	0.04μS
	6、Output Fall Time	0.18μS
	7、Pulse Frequency (Horizontal Test)	As below chart
	8、Accuracy	±5%
	9、Insulation Resistance	> 100MΩ (DC 500V).
	10、High Temperature Test	Put it in the environment of 80±3℃ for 48h, return to normal temperature for 1-2h without abnormality, and the parts have no cracks, relaxation, expansion, deformation and other phenomena, and the accuracy changes within 10%.
	11、Low Temperature Test	Put it in the environment of -20±3℃ for 48h, return to normal temperature for 1-2h without abnormality, and the parts have no cracks, relaxation, expansion, deformation and other phenomena, and the accuracy changes within 10%.
	12、Durability	Under normal temperature, the water pressure of 0.1MPa is introduced from the water inlet to turn on for 1S and turn off for 0.5S as a cycle. 300,000 tests were performed without exception.
	13、Pull Strength	A tensile force of 10N was applied to the lead wire for 1 minute, and there was no loosening or breaking, and the performance did not change.

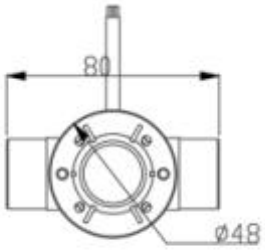
Flow Rate & Pulse Frequency Chart

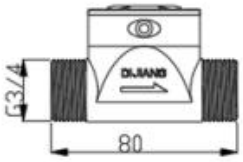
Model No.	DN15	DN20	DN25	DN32	DN50
Port Connection	G1/2'' Female Female	G3/4'' Male Male	G1'' Male Male	G1.25'' Male Male	G2'' Male Male
Flow Rate (L/min)	10 - 150	10 - 150	20 - 280	40 - 460	60 - 1100
Frequency Hz / K Factor	2.2	2.2	1.13	0.72	0.25
NPN Pulse	About 132P/L	About 132P/L	About 67.8P/L	About 43.2P/L	About 15P/L
Accuracy	±5%				
Max Pressure	1.75Mpa				

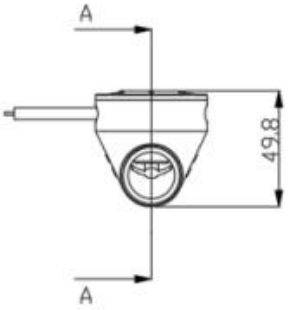
六、Product Diameter

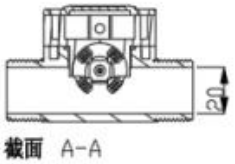












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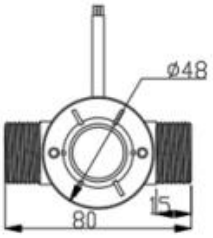

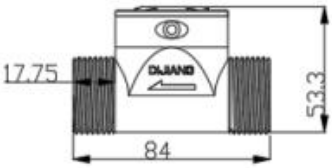

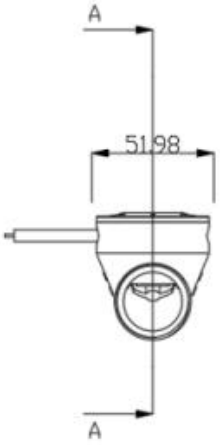

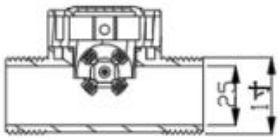

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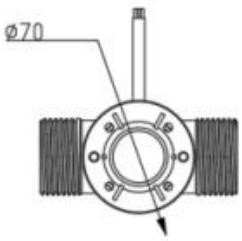

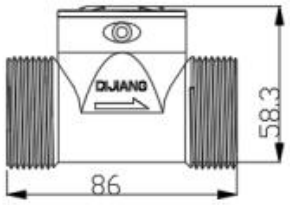
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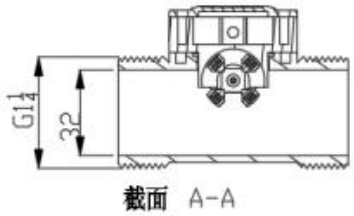
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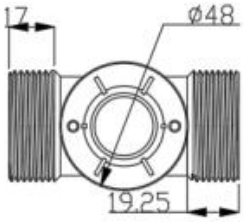
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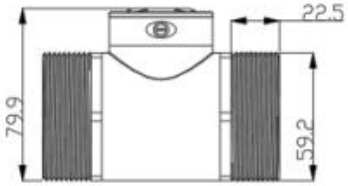
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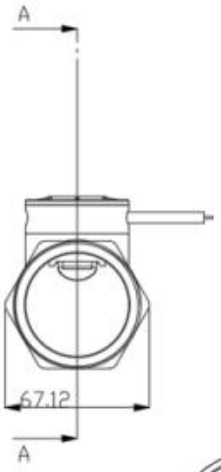
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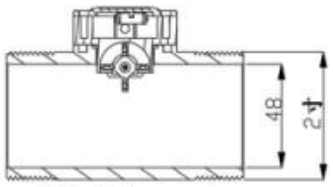
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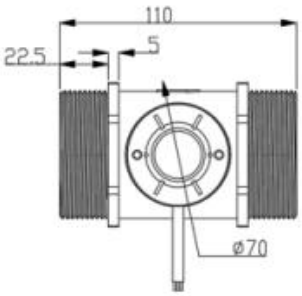
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Correct Installation: