DOOZEN
Specilize in Switch&Sensor

F2

Water Flow Sensor



1 Summary

The F2 Series Flow Sensors contain a free-running rotor which is driven by the fluid flow. Within the given measurement range, the rotational speed of the rotor is proportional to the fluid flow rate. Permanent magnets built into the rotor actuate an electronic switch in the top of the sensor generating a square-wave output signal proportional to flow rate.
The F2 Series can be measured from 2 to 20 L/Min.

The F2 Series flow-rate sensor integrates rugged tangential turbine technology with a precision digital-to-analog conversion circuit hermetically encapsulated within the body of the sensor.
This flow sensor is ideal for measuring flow rates in cooling circuits, HVAC systems

2 SPECIFICATIONS

Flow rate range:	2~30L/Min
Accuracy:	±10% of flowrate
Linearity:	± 2.5% of flowrate
Repeoducibility:	±2.5% of flowrate
Pressure Rating:	1.7Mpa/246.5PSI(25C)
Temperature range:	-4~85° C
Power:	5.0 to 12V @ 10mA (3-wire)
Signal Output:	5 V, open collector pulse
Wetted Material:	PA66 (30%GF)
Fluid Connector:	Optional
Cable Length:	150mm (Customizable)
Dimensions:	67.0X28.0 mm
Weight:	33.5g

3 FEATURE

- Low cost product with high levels of accuracy
- Excellent media resistance (measuring element not in contact with the media)
- Excellent EMC characteristics
- Wide application temperature range
- Marginal loss of pressure
- Measuring element not sensitive to debris
- All in one - sensor + damming body

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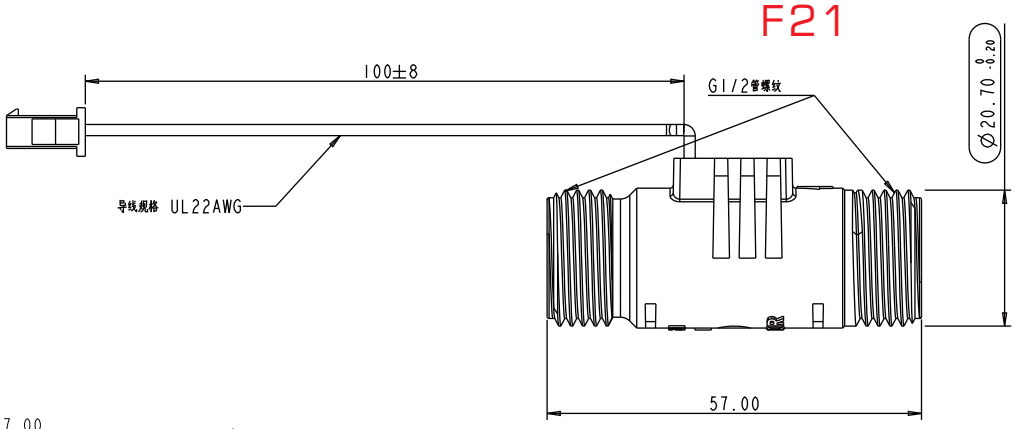
Shenzhen Doozen Electronics Co.,Ltd

Office: Room 904 Wanfu Renjia, Fuyong Street, Shenzhen, Guangdong, China,
Factory: Fourth floor, Building 1, Hengxin Smart Technology Part, Huizhou Ave, Shuikou street, Huizhou city Guangdong, China

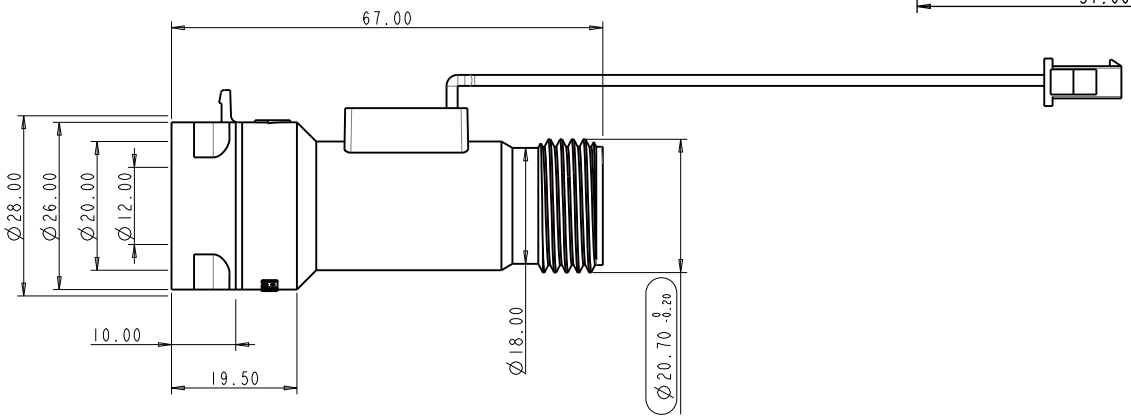
Mail: Sungowu@Gmail.com What'sAPP: +86 13923898640 Web: www.doozentech.com

4 DIMENSIONS

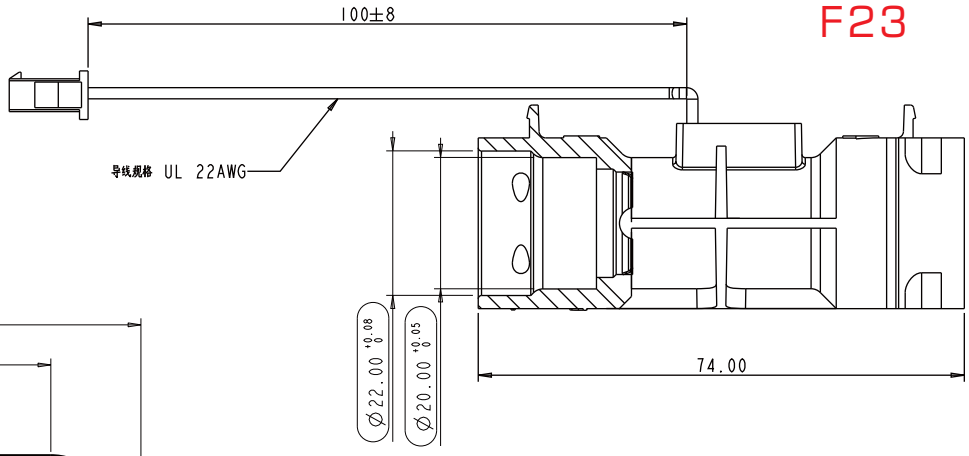
F21



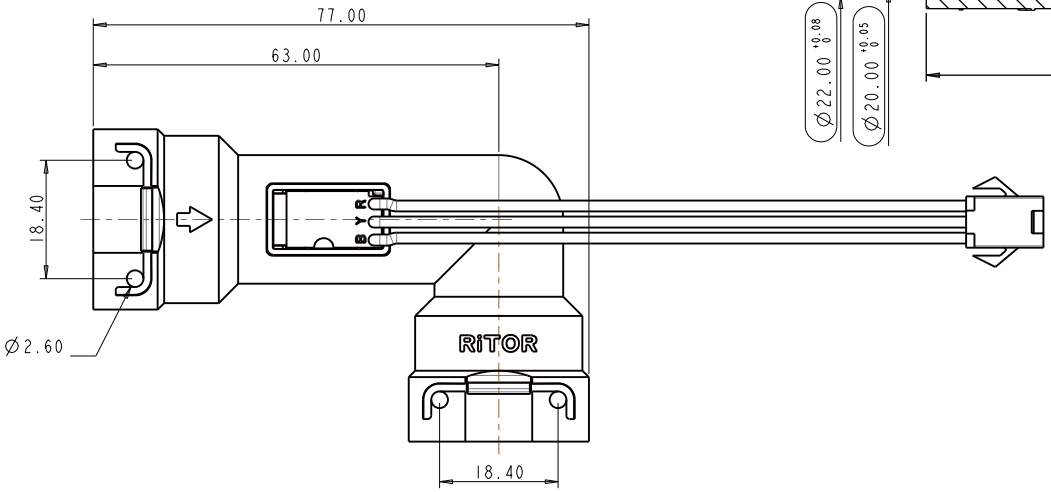
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F23



F24



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Mail: Sungowu@Gmail.com What'sAPP: +86 13923898640 Web: www.doozentech.com

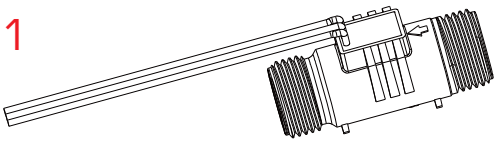
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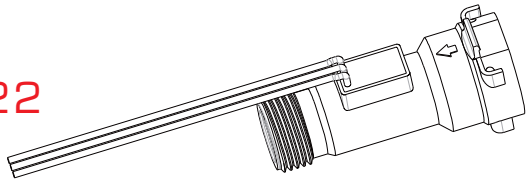
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5 TYPE SELECTION

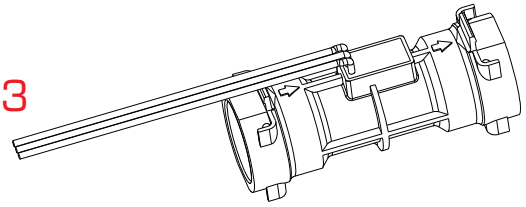
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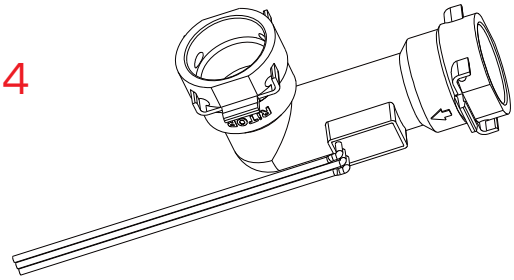
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F24



6 CALIBRATION

The K-Factors listed here represent the number of pulses the sensor will generate for each measured engineering unit.
They are listed in U.S. gallons, liters and milliliters (mL) for each sensor model.

Sensor model	Flow Connector	K Factors	
		K-Factor	Pulses per L
F21	G 1/4 Screw	f=8.1Q-3	306
F22	G1/4+Quick	f=8.1Q-3	306
F23	Quick	f=8.1Q-3	306
F24	Quick 90 Degree	f=8.1Q-3	306

- K-Factors must be considered as approximate values.
- The number of pulses per volumetric unit may vary depending on the medium and the installation.
- For optimum performance, the system must be calibrated after installation.

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