DOOZEN
Specilize in Switch&Sensor

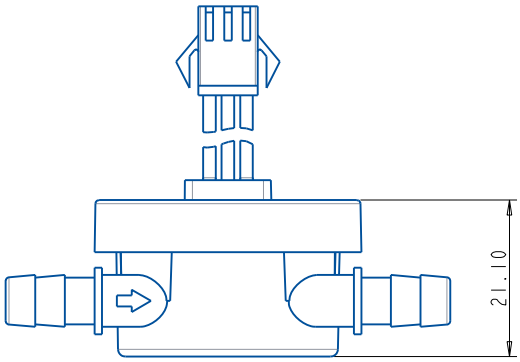
F9

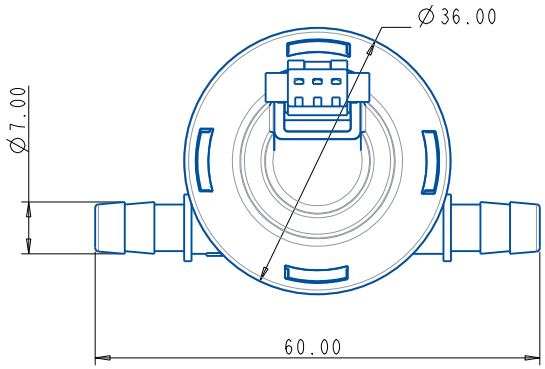
Mini-Flow Sensor



The F9 Series Mini 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. Both opaque and transparent fluids can be measured from 0.2 to 3.0 l/Min.

The F9 Mini-Flow sensor is ideal for precision low flow monitoring. The F9 is available in four flow range configurations,covering a very wide range of flows.This allows for easy selection of the range that best fits your application.



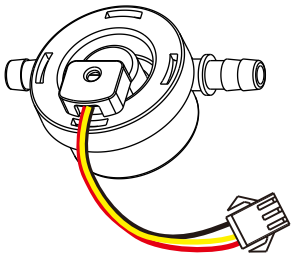


1 SPECIFICATIONS

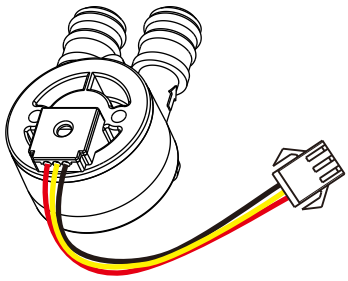
Flow rate range:	0.2~3.0L/Min
Accuracy:	±3% of flowrate
Linearity:	±0.25% of flowrate
Repeoducibility:	±0.25% of flowrate
Pressure Rating:	60PSI(25C)
Temperature range:	0~65° C
Power:	3.3 to 12V @ 10mA (3-wire)
Signal Output:	5 V, open collector pulse
Wetted Material:	POM (food-grade)
Fluid Connector:	1/4 FNPT
Cable Length:	350mm (Customizable)
Dimensions:	60.0X36.0X21.1 mm
Weight:	22.5g

2 TYPE SELECTION

F91



F92



3 APPLICATIONS

Typical applications include coffe machine Water filter, monitoring of critical flows in laboratories, and Other successful applications include monitoring liquid ingredient additions, such as food dyes, in the food processing industry and medical flow applications.

Specilize in Switch&Sensor

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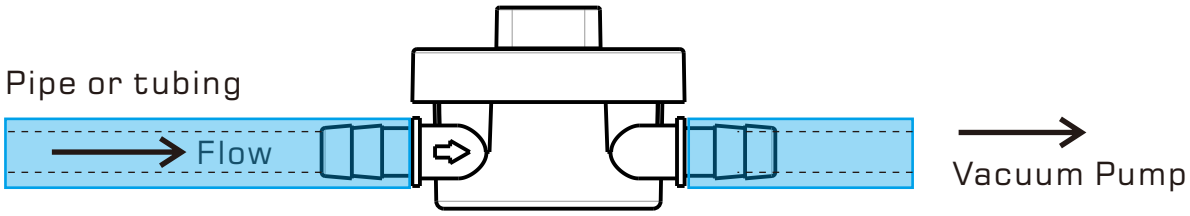
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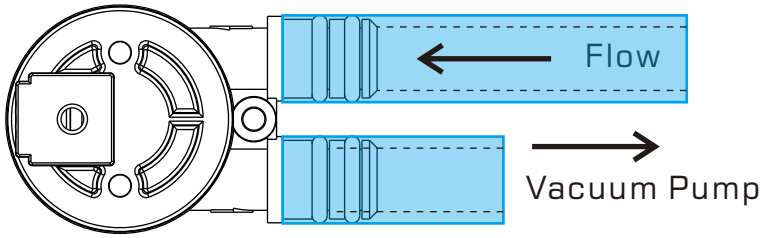
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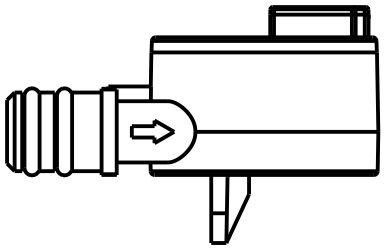
Mini-Flow Sensor

4 INSTALL RECOMANDATIONS



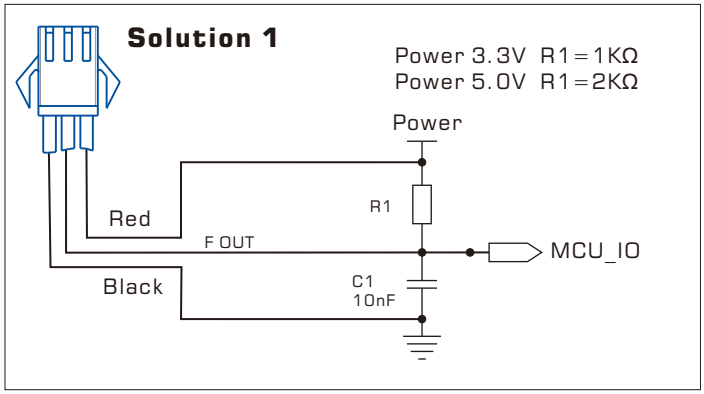
measurement guaranteed only if mounted horizontally

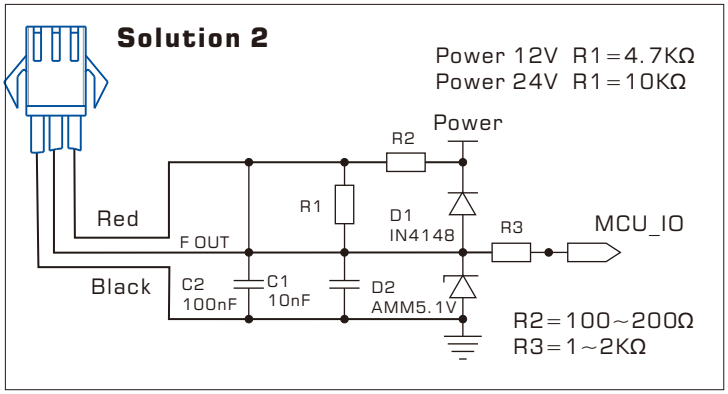


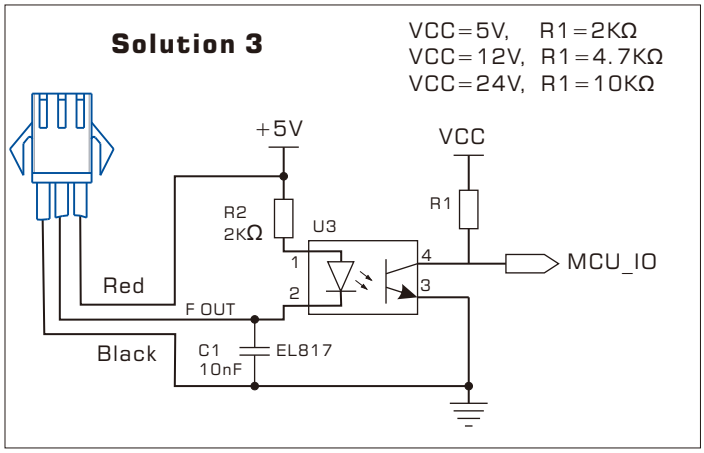


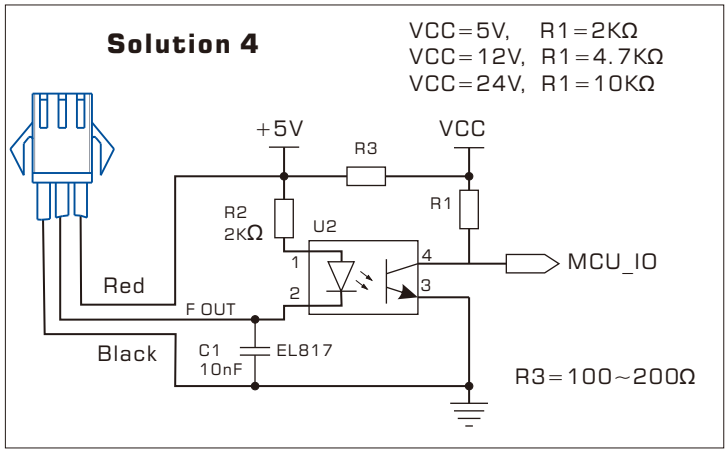
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5 ELECTRICAL INTERFACING









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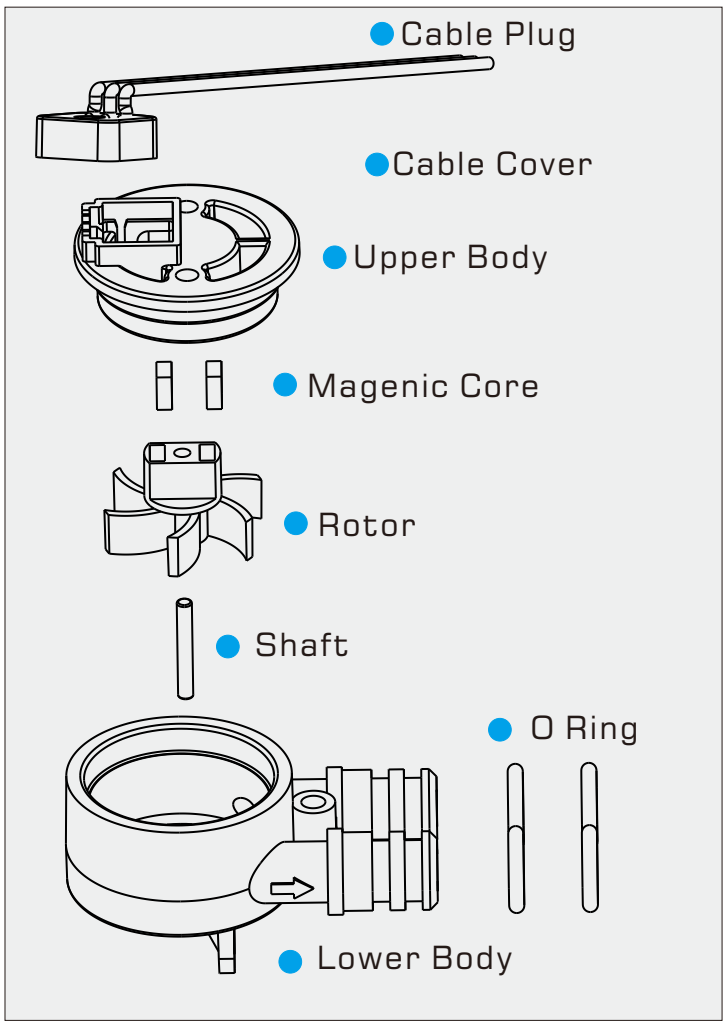
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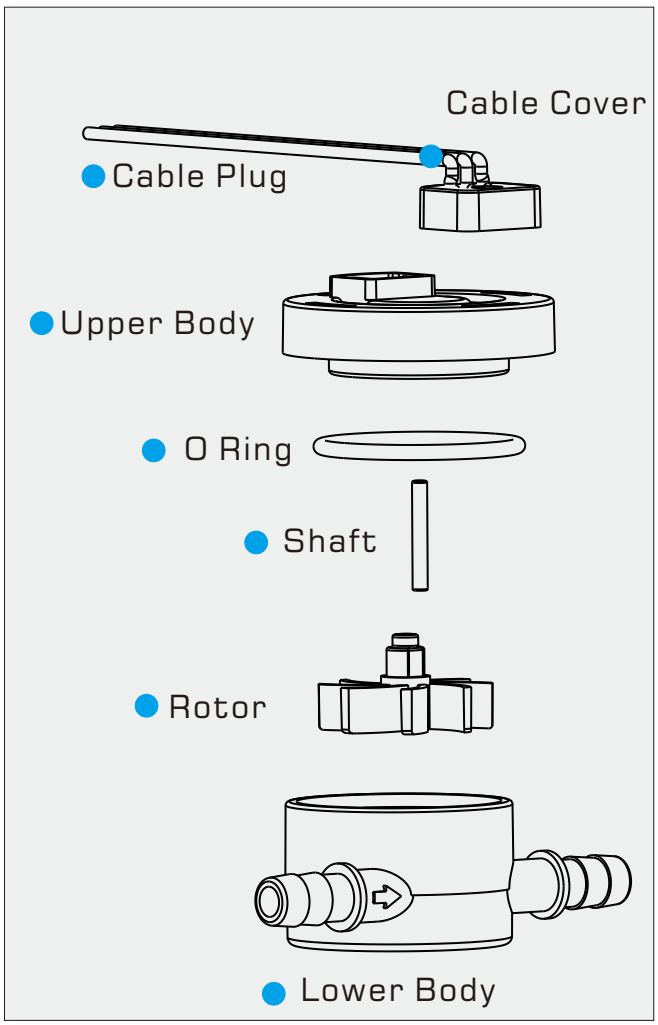
DOOZEN
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F9

Mini-Flow Sensor

6 CONSTRUCTION





7 CALIBRATION

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

Sensor model	Flow Connector Flow Range	K Factors	
		K-Factor	Pulses per Liter
F91	OD=Φ7.0mm 0.1~3L/Min	f=29.5Q	1770
F92	OD=Φ10.4mm 0.1~3L/Min	f=15Q-2	780

- 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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