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[Http://www.xxkg.com](http://www.xxkg.com)

## Technical Information

### Flow Meter

### FM-HL3012

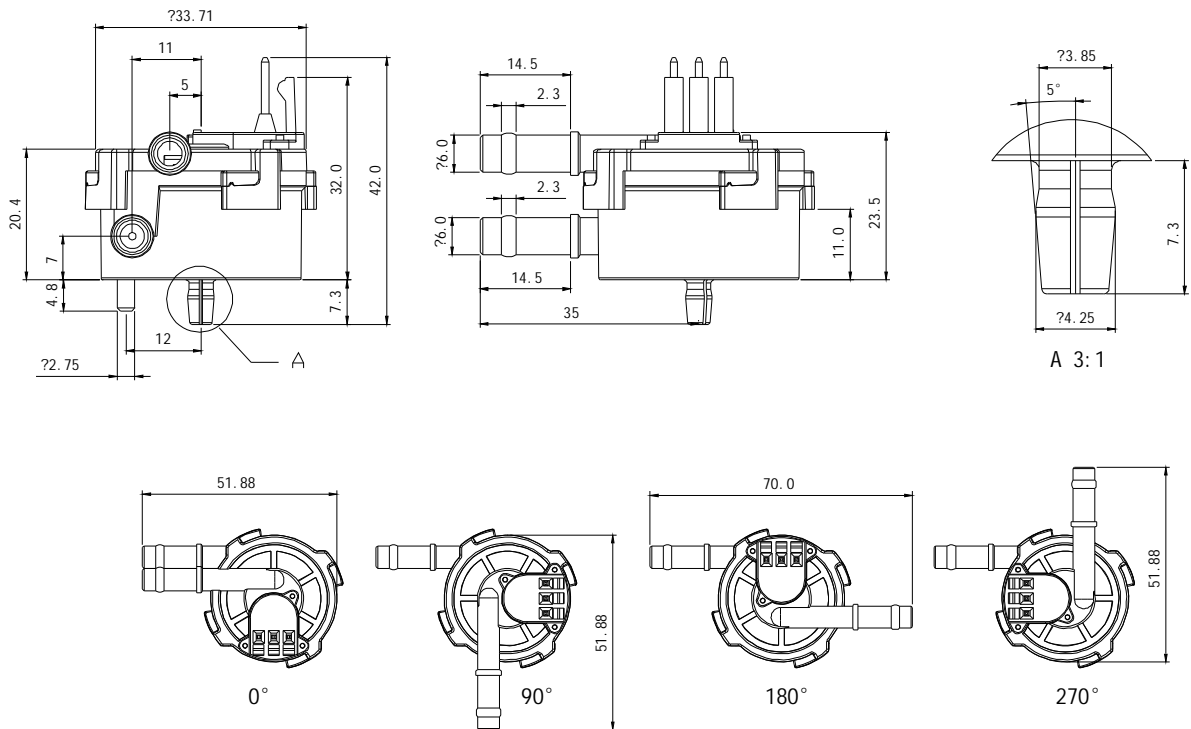
#### Features:

- | Small in size, light in weight, self-assembly from four directions and easy to install
- | High flow accuracy and reliability and long operating time.
- | Meet safety requirements.
- | Meet Rohs requirements.
- | Meet FDA requirements.

#### Applications

- | Coffeemaker
- | Water purifier
- | Small flow control needed appliances

#### Dimension:

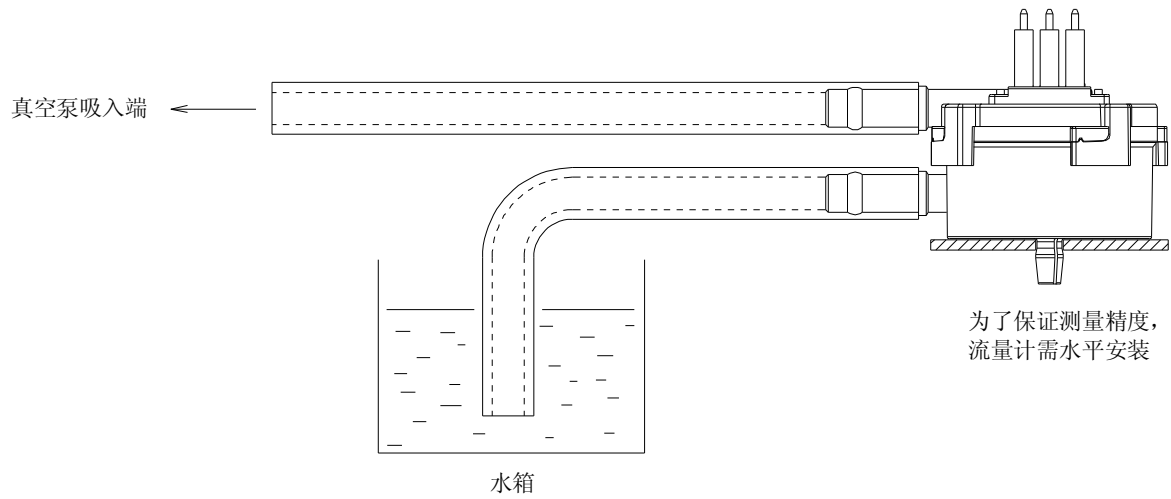


- Remarks: 1. All dimensions are in mm.  
2. Unspecified size tolerance is  $\pm 0.20\text{mm}$

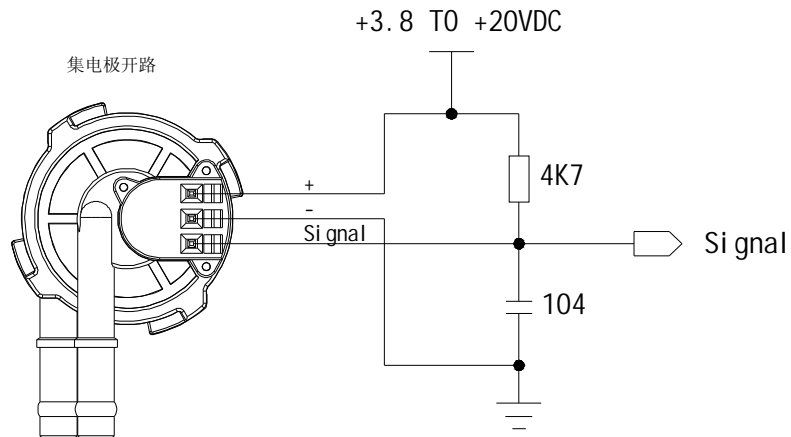
Technical Information  
Flow meter

## FM-HL3012

### Installation and Connection



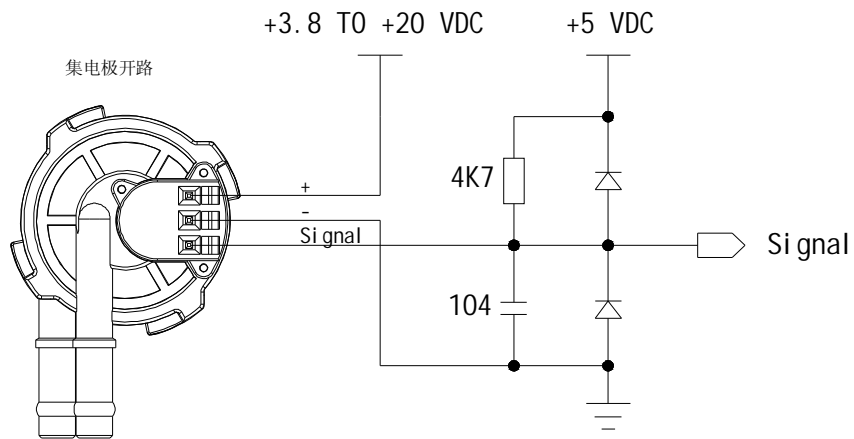
### Application Circuit



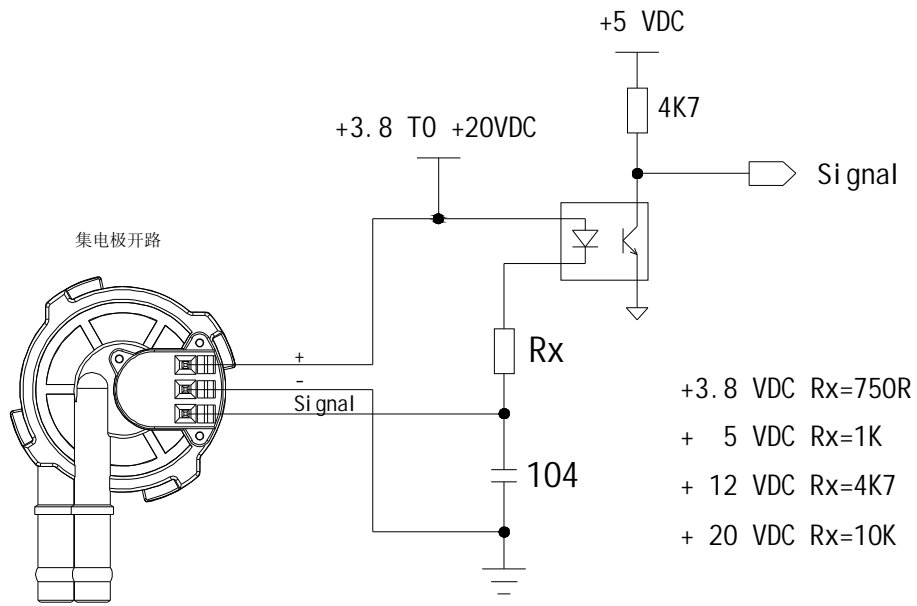
简单电路

Technical Information  
Flow meter

## FM-HL3012



TTL电平电路



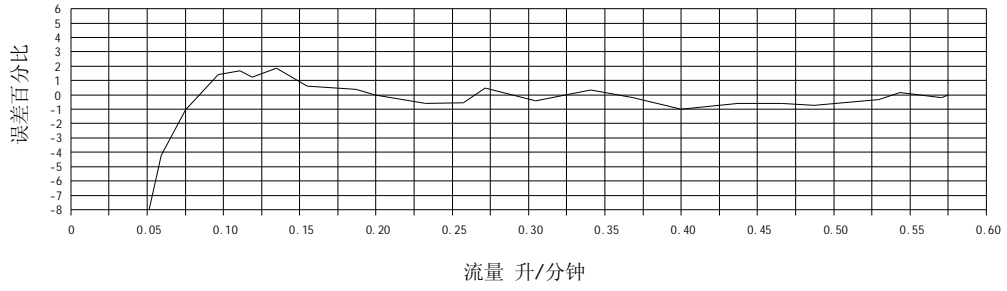
光耦隔离电路

Technical Information  
 Flow meter

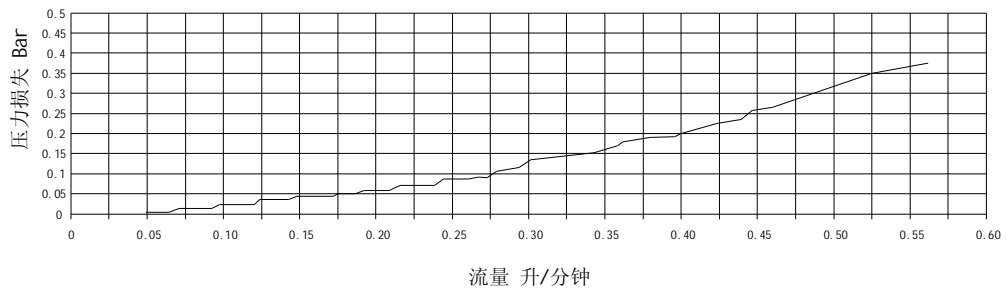
## FM-HL3012

Test curve

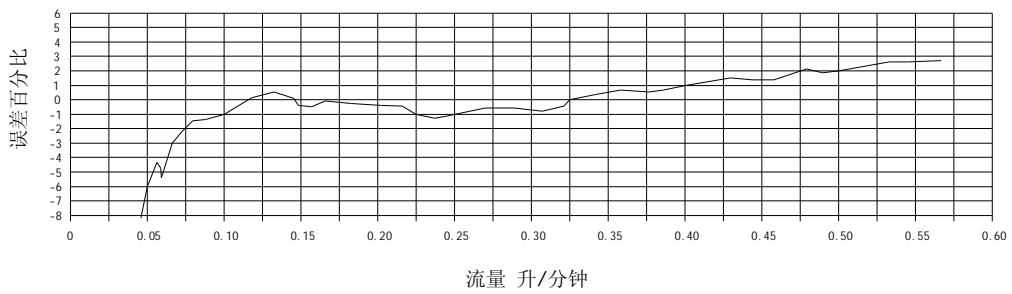
0° 方位组装时误差曲线



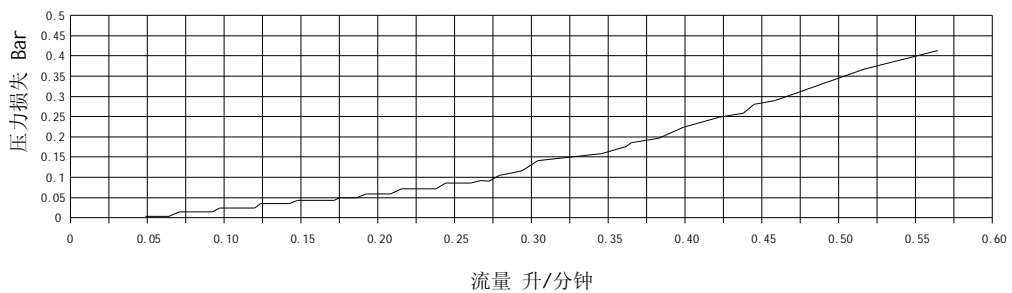
0° 方位组装时压力损失曲线



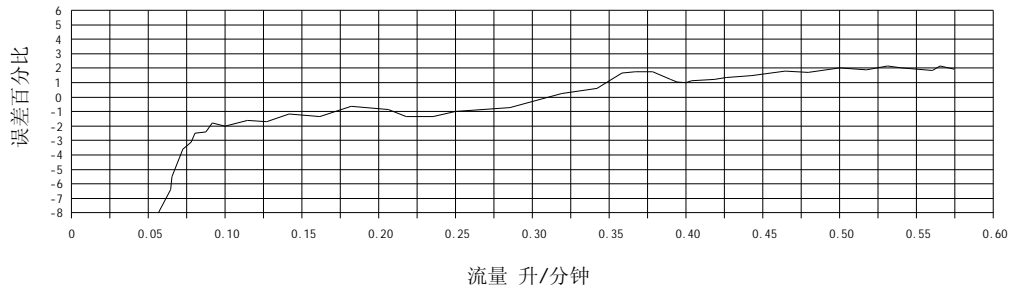
90° 方位组装时误差曲线



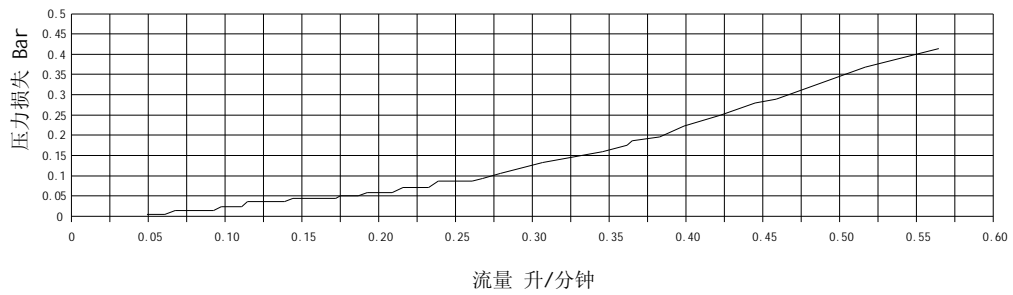
90° 方位组装时压力损失曲线



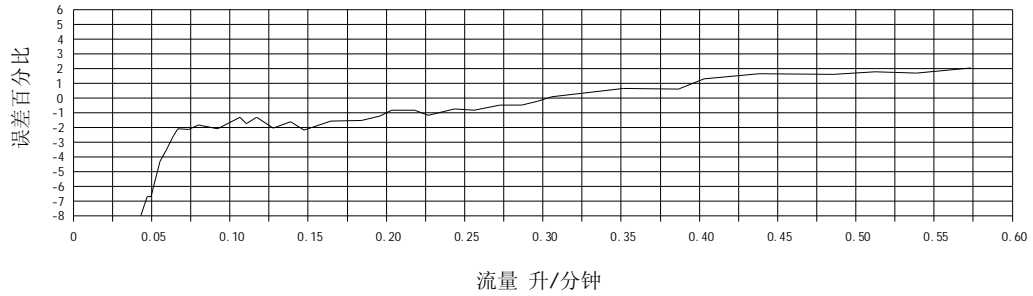
180° 方位组装时误差曲线



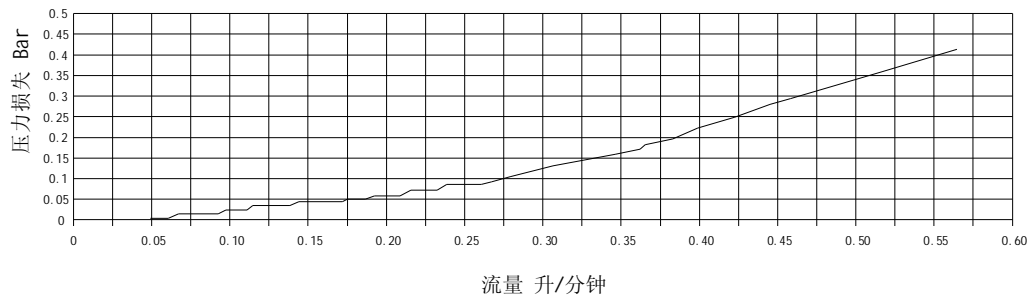
180° 方位组装时压力损失曲线



270° 方位组装时误差曲线



270° 方位组装时压力损失曲线



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## FM-HL3012

不同方位组装时参数表

	最大流量时 脉冲数/升	最大流量时 克/脉冲	最小流量（线型） 升/分钟	最大流量 升/分钟	最大流量时 压力损失 Bar
0° 方位组装	3850	0.2597	0.0750	0.5692	0.42
90° 方位组装	3868	0.2585	0.0813	0.5667	0.43
180° 方位组装	4032	0.2480	0.1022	0.5705	0.43
270° 方位组装	4024	0.2484	0.0801	0.5677	0.42

说明：以上值为近似值  
每分钟脉冲数跟液体种类及安装有关  
建议安装到位后，进行线性校正

### Instructions:

Statistics above are approximate.

Pulses per minute relate to fluid varieties and installation.

Linear correction suggested after installation.

### Precautions:

1. Insure no fast pulse fluctuations of the fluid.
2. Insure no reverse surge pressure.
3. Insure no air in the entire circulation system.
4. Notice the mounting position of the flowmeter.
5. Min/max flow should be within the linear range of the flowmeter.
6. System should be cleaned after an appropriate time.
7. Avoid current impact.
8. Misconnection to the joint terminal will damage the flowmeter.
9. No mechanical stress on the joint terminal.
10. No fog accumulation on joint terminals.

## FM-HL3012

### Technical Parameters (Ta=25°C)

参数	范围	参数	范围
流量范围	0.075-0.570升/分钟	信号联接	NPN 三极管 集电极开路
测量精度	+ / - 2.0 %	信号电压	VDC GND
重复精度	<+ / -0.25 %	信号带载	MAX. 20mA
温度范围	-10° to +65°	漏电流	MAX. 10uA
压力范围	-1 to 0.3 Bar at 20°	联接端子	PANCON MAX-CON 156MLSS
电源电压	+3.8 to +20 VDC	输出信号	方波
电流消耗	< 8mA	占空比	~50%

### Packing Specification

30 / discs, 10 discs / box