

HLC-001

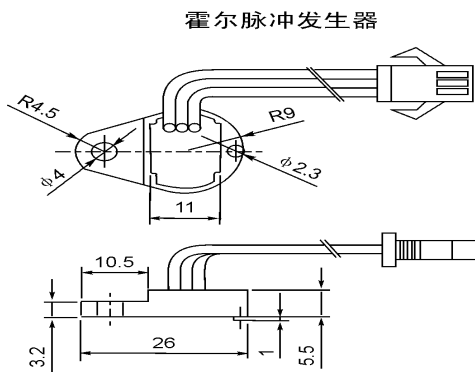
(Hall Effect Operating - Flow Sensor)

HLC	(Type Parameter)	
	(Operating Voltage)	5V DC
	(Power Dissipation Current)	15mA (DC 5V)
	(Load abilities)	≤10mA (DC 5V)
	(Insulation electric resistance)	≥100MΩ
	(Hall component fuse pull strength)	≥30N
	(Output high Voltage extent)	>4.7V DC Input Voltage DC 5V, R _{PIUS} =1kΩ
	(Output Low Voltage extent)	<0.3V DC Input Voltage DC 5V, I _L ≤10mA
	(Rate flow pluses characteristic property)	(Pulse) (HZ) = [8.1 × (flow)Q (L/min) - 6] ± 10%
	(Operating rate flow range)	2~10L/min
	(Output rise time)	0.4 μS (V _{dd} =12V, R ₁ =1.1KΩ, C _L =20pf)
	(Output down time)	0.18 μS (V _{dd} =12V, R ₁ =1.1KΩ, C _L =20pf)
	(Operating supply Voltage Range)	4.2~18V DC
	(Operating Temperature Range)	-15~ +80℃
	(Storage Temperature Range)	-20~ +85℃
	(Operating Humidity Range)	35%~90%RH Non frosting condition
. (Customer made acceptable)		

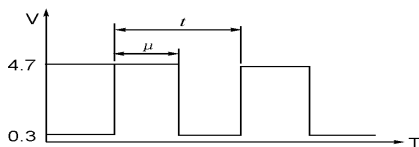
(Number)	(conducting Line specification)	(color)	(length)	(Remark)
1	1007' 20 80℃	(Black)	35	(Ground)
2	1007' 20 80℃	(Yellow)	35	(Signal)
3	1007' 20 80℃	(Red)	35	(Source)

(Hall circuit)

(Streams Rotator component)



输出波形



占空比 τ = 40%~60%

(Abutment)

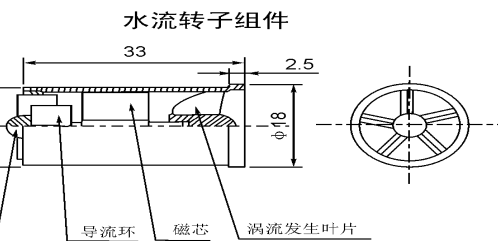
(Flow-guiding ring)

((Blade eddy)

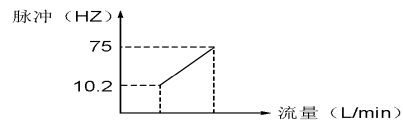
(Output Wave)

(Flow)

(pulse)



流量-脉冲曲线



1

(Magnetism core)

(Rate of Flow-pulse Curve)

(duty cycle)