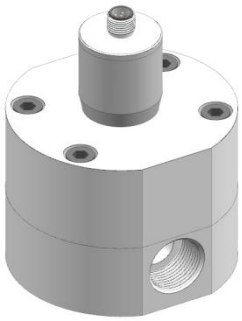
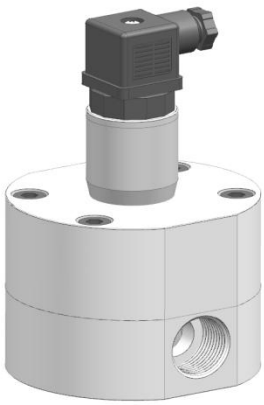
The connector type

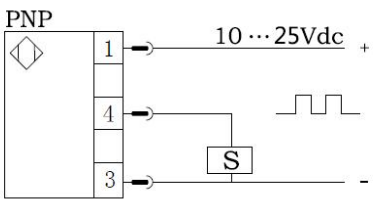


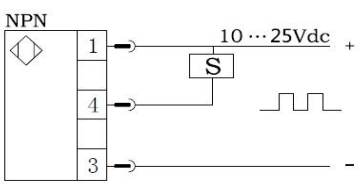
Small type

Hersman type



Wiring Diagram 1. (M12 connector type)





principle and characteristics

The SN55B micro–gear flow sensor has double circular gears, which drive the gear when the liquid flows into the gear flowmeter to measure the cavity. Each tooth is equal to the volume of the liquid contained in the space formed by the measuring cavity wall. The volume of liquid flowing through can be measured by detecting the number of gears passing through a particular sensor.

SN55B gear flowmeters are not affected by medium viscosity and have high measurement accuracy and repeatability, even at the upper and lower limits of the range. Especially suitable for measuring high viscosity medium.

- pulse output
- High pressure resistance (1.0–45MPa)
- High and low temperature resistance (–196... 200 ℃)
- can measure all kinds of viscous media
- High precision and repeatability
- Range ratio width (1:100)
- wide measurement range
- Anticorrosion, anti pollution ability (acid and alkali)

product application

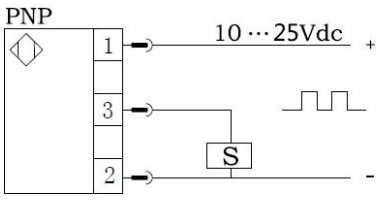
SN55B gear flow sensors are widely used in a variety of industries for accurate low flow measurement. Applicable medium: additive fuel, water treatment flotation tank, corrosion inhibitors, catalysts, emulsifiers, oil, grease, spices, adhesives, solvents, ink and pesticides and other high viscosity medium. Application industries include automobile, aviation, mining, electric power, chemical, pharmaceutical, food, coating, petroleum, environmental protection, printing and other industries

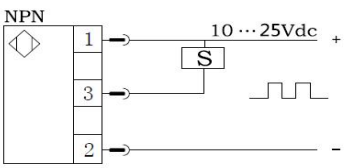
Especially suitable for heavy oil, polyvinyl alcohol, resin and other high viscosity medium flow measurement (can measure the viscosity of up to 10000Pa. S fluid). Small volume, light weight, small vibration noise and stable operation, can also be used to measure small pipe diameter of the measurement of small flow. Small starting flow, wide range ratio, suitable for metering in line with the change of liquid flow, measurement accuracy is not affected by the change of pressure and flow, stable performance, long life, large flow capacity.

- Resin and glue measurement
- Measurement of hydraulic oil, lubricating oil and grease
- Fuel oil measurement
- Measurement of liquid nitrogen, refrigerating liquid and solvent
- Filling measurement of edible oil, fish oil and food
- Chemical and corrosion protection requirements for fluid measurement
- Fluid quantitative control system
- Medium temperature: –30... 80℃ (high temperature custom: 150℃)
- Standard voltage: 5MPa
- High pressure customization: 15MPa (stainless steel)

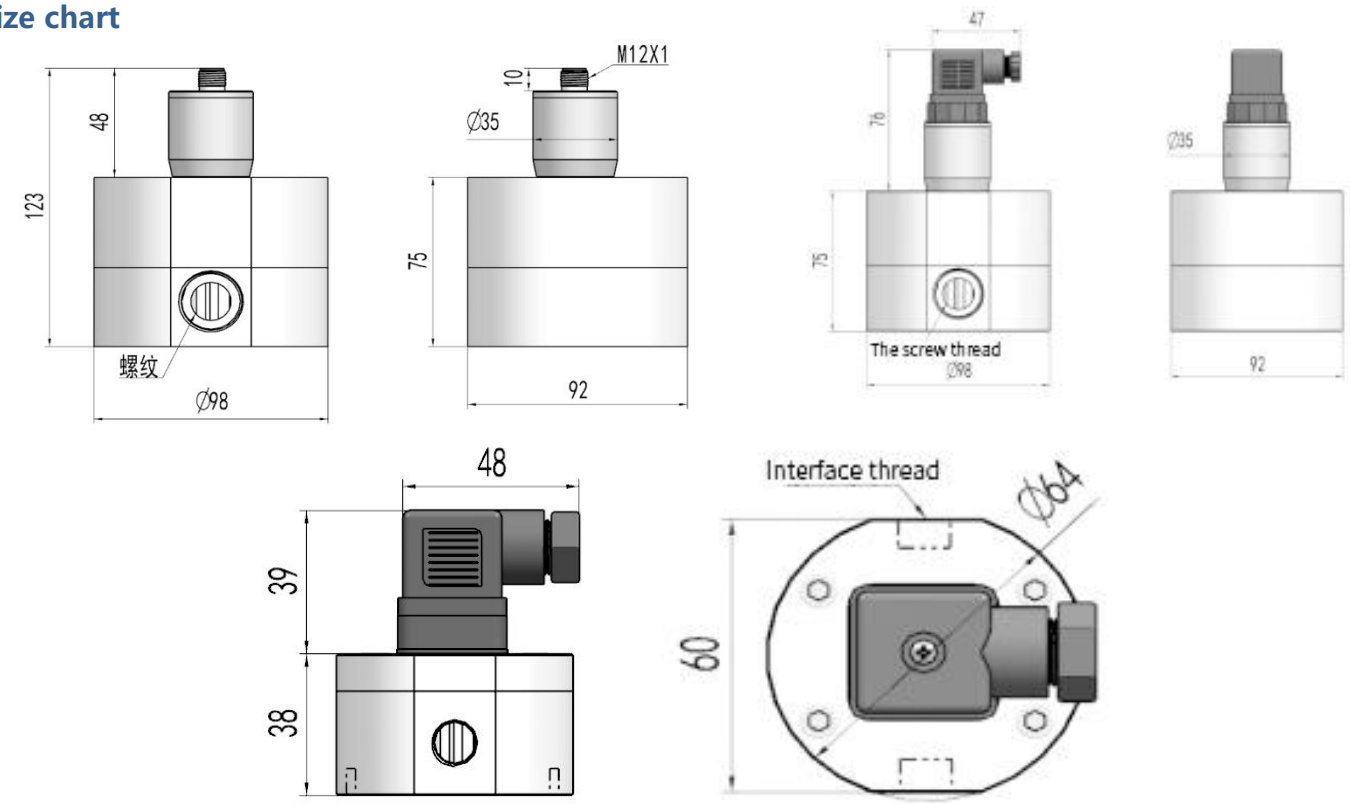
Wiring Diagram 2. (Hersman type)

signal	stitching
The power is	1
pulse	3
The power negative	2





Size chart



Selection table

SN55B–	B	A2	P	X	B	specification
SN55B–						SN55B series small circular gear flow sensor
	A					connector
	B					Hirschmann
	C					Small type
		A2				Measuring range: 5–300ml /min (corresponding: thread G1/8)
		A8				Measuring range: 0.1–3L/min (corresponding: thread G1/4)
		A10				Range: 0.15–8L/min (corresponding: thread G3/8)
		A15				Range: 0.8–20L/min (corresponding: thread G1/2)
		A20				Measuring range: 3–50L/min (corresponding: thread G3/4)
		A25				Range: 20–200L/min (corresponding: thread G1)
		A32				Range: 30–330L/min (corresponding: thread G1 "1/4)
			P			PNPpulse output
			N			NPNpulse output
				L		Body material: alumina
				X		Body material: 304 stainless steel
				P		Body material: PP
					B	Standard options
					T	High temperature custom
					P	High pressure custom

* The selection table is only available for parameter selection, and the corresponding code is delivered.