



Product principle

The LM800S type liquid level sensor has built-in Hall magnetic sensor, external magnetic float to monitor the liquid level as the liquid level rises or falls, and can continuously measure the liquid level. NBR oil float and stainless steel float are optional, which can be applied to different media, simple and minified design, and beautiful appearance to meet the needs of equipment upgrading.

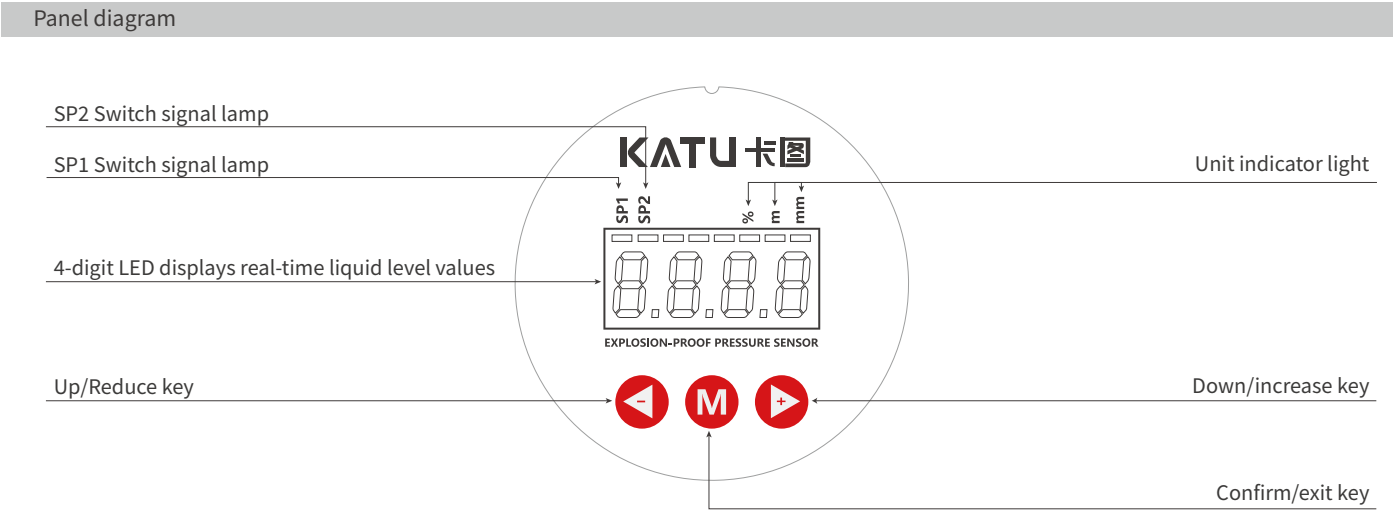
Product characteristics

- With IO-Link communication function
- Support arbitrary setting of liquid level alarm
- Easy to read, remote monitoring of liquid levels
- New design, compact and durable
- Flexible configuration with optional output range
- NBR/304 stainless steel float optional

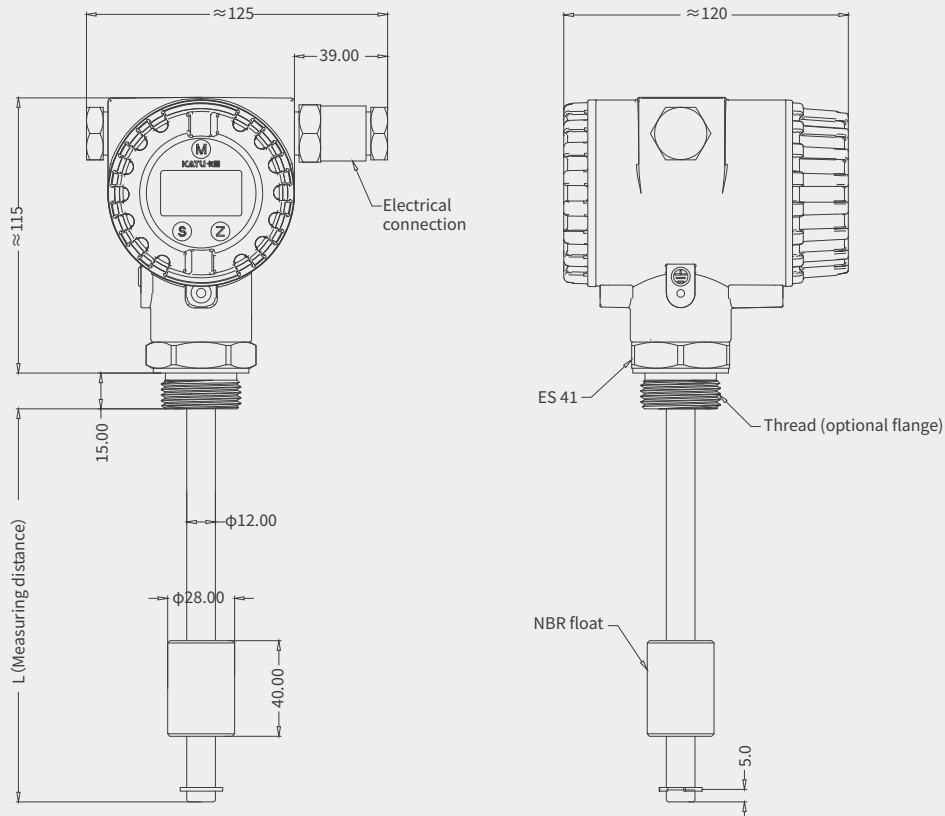
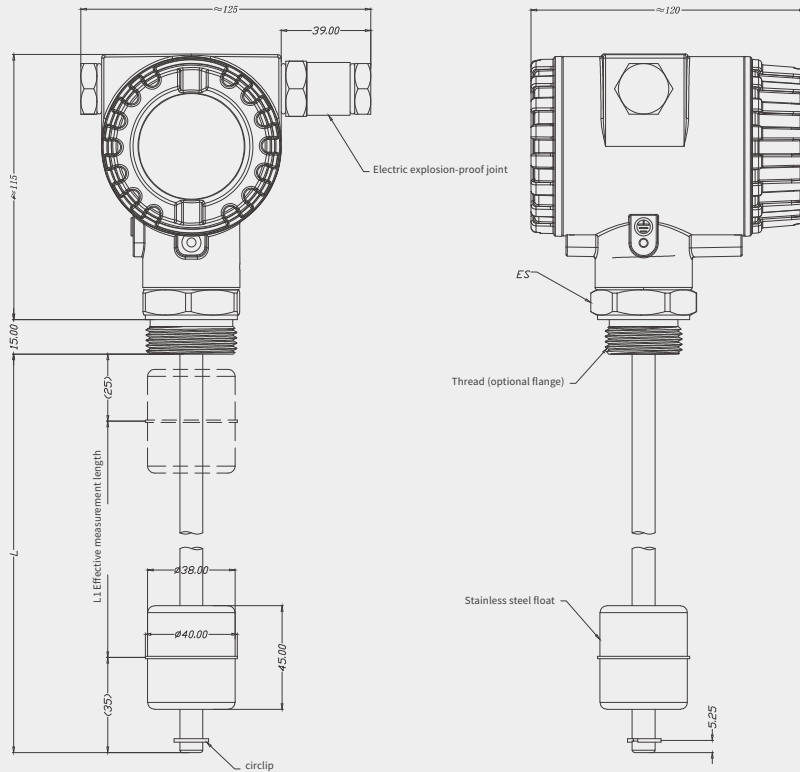
Product application

Machine tool
Hydraulic and pneumatic systems
Pumps and compressors
Machine building
Automation equipment

Technical parameter	
◇ Power Supply: DC16... 30V	◇ Medium temperature: -20... 100 °C
◇ Current consumption: maximum 40mA	◇ Ambient temperature: -20... 80 °C
◇ Output signal: analog/communication/switch	◇ Storage temperature: -20... 65 °C
◇ Safety: short circuit protection, reverse polarity protection	◇ Relative humidity: 45... 75%
◇ Insulation: DC500V	◇ Shock resistance: 20g, 10... 2000Hz (compliant with IEC60068-2-6)
◇ Overvoltage: DC36V	◇ Impact resistance: 50g, 6ms (according to IEC60068-2-27)
◇ Connecting time: 2s	◇ Protection grade: IP65
◇ Response time: analog signal ≤5ms	◇ Connecting parts: 304 stainless steel /NBR
◇ Load: Analog signal 4... 20mA≤500Ω; PNP/NPN≤100mA	◇ Body shell: 304 stainless steel
◇ Measurement resolution: 5mm/10mm	◇ Process connection: thread/flange
◇ Long-term deviation: 5mm	



Size drawing (mm)



Wiring diagram

Binding post				
 1	 2	 3	 4	 5
12-36VDC	GND	OUT1	OUT2	OUT3

Two switches + one analog					
stitch	Instructions	stitch	Instructions	stitch	Instructions
1	power supply (+)	2	power supply (-)	5 (OUT3)	4-20mA (factory default) 1-5V 0-10V
3 (OUT1)	SP1 switch PNP (factory default) SP1 switch NPN	4 (OUT2)	SP2 switch PNP (factory default) SP2 switch NPN		

Selection list

LM800S-	L0250	A3	G1M	G	S4	E	expatiate
LM800S-							Float ball level gauge
	L0150						Measuring range :150mm
	L0200						Measuring range :200mm
	L0250						Measuring range :250mm
	L0350						Measuring range :350mm
	L0500						Measuring range :500mm
	L0750						Measuring range :750mm
	L1000						Measuring range :1000mm
	-						Measuring range: Support custom measuring range
		A3					Output signal: two switches + one analog mA/V
			G1M				Installation thread: G1 external thread
			G112M				Installation thread: G1-1/2 external thread
			G2M				Mounting thread: G2 external thread
			F25				Flange mounting DN25
			F50				Flange mounting DN50
				G			Electrical connection: Electric Gran Head (PG13.5) (non-explosion-proof)
				G12K			Electrical connection: G1/2 internal thread
				N12K			Electrical connection: NPT1/2 internal thread
					N		NBR(External diameter 28mm NBR Float)
					S4		304 stainless steel (outer diameter 40mm) Installation method: $\geq 1.5"$ thread or $\geq$ DN25 flange
					S5		304 stainless steel (outer diameter 52mm) Installation method: $\geq 2"$ thread or $\geq$ DN25 flange
					S7		304 stainless steel (OD 75mm) Installation method: $\geq$ DN50 flange
						E	anti-explosion
						S	Non-explosion proof