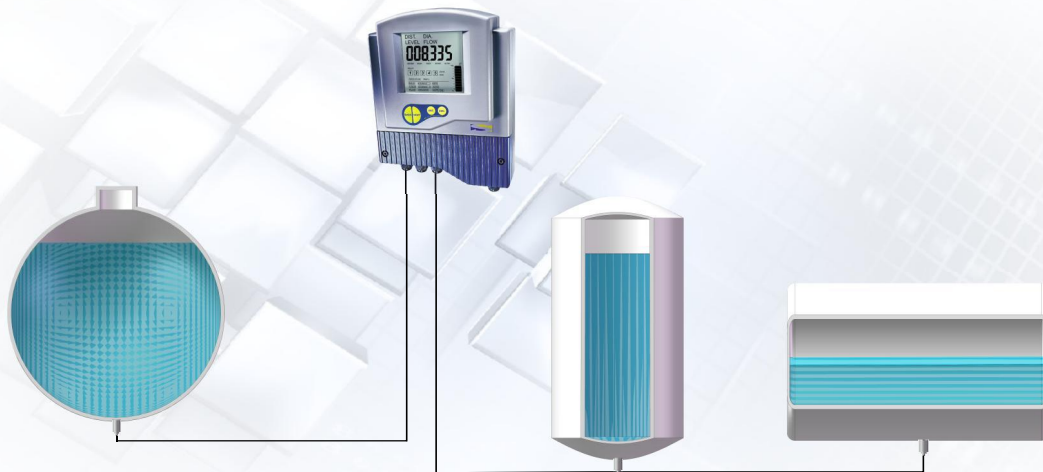


SLDL2810 Series

SonarScan Externally mounted sonar level gauge

SLDL2850Series

SonarDetect Externally mounted sonar liquid level switch



■ Working principle

SonarScan and SonarDetect externally mounted sonar series are sonar signals sent out by sonar transducers (probes), and the sonar signals are reflected in different environments, and part of the reflected signals are received by the Sonar controller. SonarScan obtains accurate liquid level information by analyzing the reflected signal. SonarDetect analyzes the reflected signal to determine whether it reaches the set alarm point.

■ Features

- SonarScan sonar optimization processing technology to ensure measurement accuracy
- Completely non-immersion installation, no shutdown, non-stop production, no cleaning of tanks, no fire
- It is completely isolated from the process medium and will not pollute the process medium, suitable for hygienic food and pharmaceutical industries
- Non-destructive installation of metal, glass, plastic and other tanks, can be used in high pressure, toxic and corrosive occasions
- Measurements are not affected by foam on the surface of the liquid
- Multi-language support (including Chinese), can display the echo signal curve, easy to debug
- IP68 protection level
- SIL3 safety certification, Ex d IIBT4, ExiallCT6 explosion-proof certification
- Support HART, Modbus, Profibus PA, Foundation Fieldbus, GPRS/CDMA remote, Bluetooth and other communication methods

■ Technical Parameters

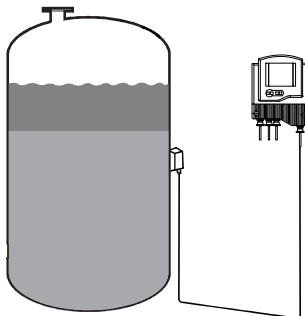


Model	SLDL2810 liquid level gauge	SLDL2850 liquid level switch
Application	High pressure, toxic, corrosive occasions, hygienic food and pharmaceutical industries	
Measuring range	≤30m	Interface reflection mode ≤ 15m liquid level height, wall reflection mode ≤ 15m container diameter transmission mode is not limited
Wall thickness range	≤70mm	1mm~70mm
Repeatability	±2mm	±2mm
Measurement accuracy	±2mm	±2mm
Operating temperature	(-30°C~+90°C) (normal temperature probe)	(-30°C~+90°C) (normal temperature probe)
Ambient temperature	(- 40°C~+80°C)	(- 30°C~+80°C)
Relative humidity	15%~100%RH	0~98% (non-condensing)
Degree of protection	IP68	IP68
Electrical interface	M20×1.5mm (optional)	3/4NPT×2
Output	4~20mA	Relay, 1 set of SPDT contacts (AC250V, 5A DC30V, 5A)
Show	OLED	LCD
Powered by	24V DC±15%	24VDC or 12VDC
Power consumption	≤10W	≤4W
Explosion-proof grade	Exd IIB T4/Ex ia IIC T6	Exd IIB T4/Ex ia IIC T6

■ Installation diagram

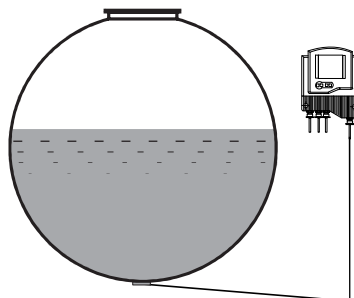
According to different applications, the probe has various installation forms, the following is a typical installation:

1.The probe is installed on the outer wall of the container



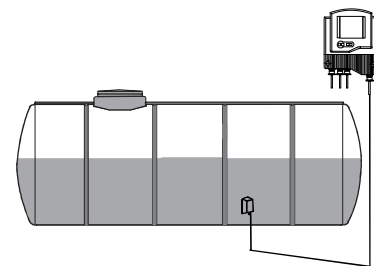
When the probe is installed on the outer wall of the container, the liquid level switch can work in the wall reflection mode or the transmission mode. In the wall reflection mode, the inner diameter of the container is required to be no more than 15 meters, and in the transmission mode, the container wall thickness is required to be no greater than 30mm.

2.The probe is installed at the bottom of the container



When the probe is installed at the bottom of the container, the liquid level sensor works in the interface reflection mode. In the interface reflection mode, the liquid level height that can be set should not be greater than 15 meters.

3.When the probe is installed on the outer wall of the pipe



The liquid level switch can work in the wall reflection mode or the transmission mode. The wall thickness of the transmission pipe is not more than 30mm.