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# CATALOGUE

## FLOAT TYPE LEVEL SWITCH

### CS-1000



Doc. no.: CS-1000\_K\_R0

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**Overview**

The CS-1000 is a detector with a contact signal of ON/OFF by detecting the water level inside the tank with FLOAT TYPE LEVEL SWITCH and is used in the process of performing alarm and control functions during water supply or drainage.

This detector has the advantage of being sturdy in structure and long life due to the excellent reliability of the product.

**Characteristics**

- Solid construction and mechanical drive free for semi-permanent use.
- Explosion-proof construction
- Length extension is possible according to TANK NOZZLE.

**Operation**

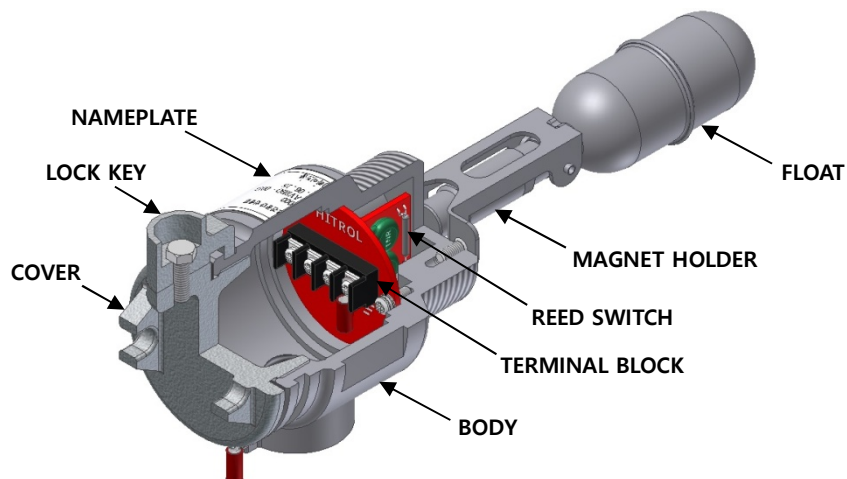
The CS-1000 is installed on the side of the tank, and the output signal is generated when the FLOAT changes according to the change in the tank level.

**Principle and****Product**

The contact point is divided into HIGH alarm and LOW alarm, and since it is 1-SPDT, the

**Configuration**

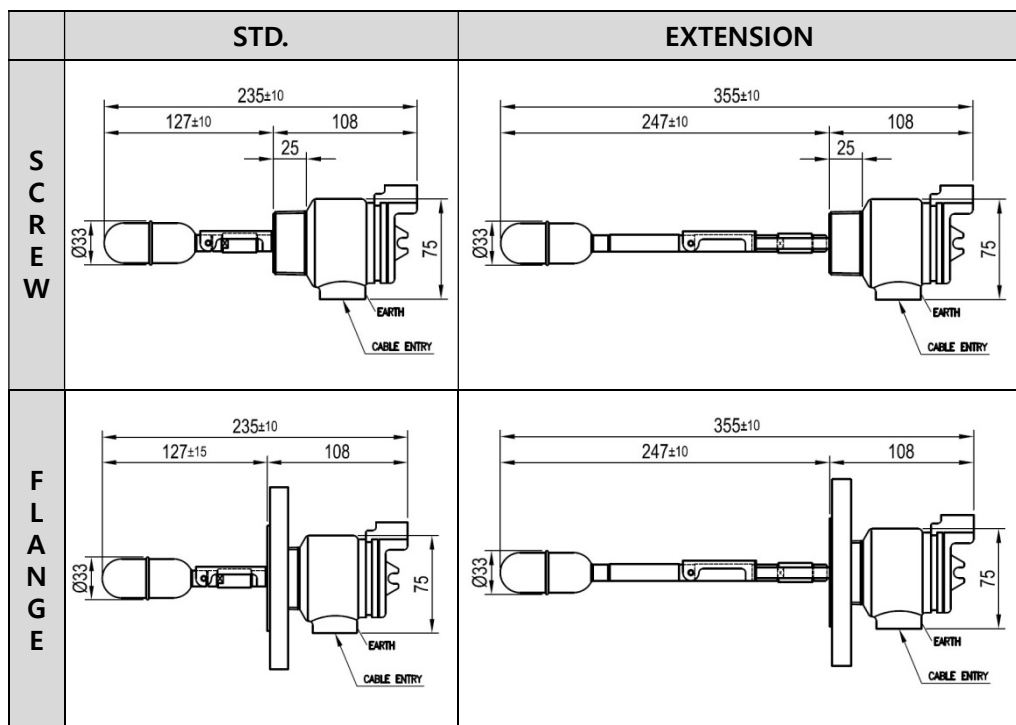
user can apply the product by connecting to the process conditions.



**Specification**

Model	CS-1000 / CS-1000L (Extension)
Mounting	Screw or Flange
Ambient temperature	-20°C ~ +80°C
Process temperature	80°C
Process Pressure	Vacuum~ 20kg/cm2(300#)
Output Signal	SPDT
Contact Rating	AC 140V, 1A / DC 150V, 1A
Enclosure	Ex-Proof (Ex d IIC T4, IP65)
Wetted Parts Material	Stainless Steel
Process Connection	PT 1-1/2"(M) Screw / 40A JIS 10K RF
Housing; Cable Entry	SCS 13; PF 1/2"(F)

**Dimensions**



There may be some tolerance with the actual product.

## Installation

The level switch has a type of screw (PT, NPT, PF, etc.) and a type of flange (ANSI, JIS, DIN, etc.), and the following must be noted when installing:

### ■ Tank Side (Horizontal) Installation

When installing the product, the correct level should be maintained, and the FLOAT should be installed in the correct direction to operate up and down. Also, the wire inlet should be facing down.

If the inlet, which is a wire, is facing in a direction other than the direction below, the installation is not correct.

### ■ Install tank top (vertical)

This product cannot be installed vertically.

## Precaution for Installation

■ The wire inlet should be directed downward.  
(If installed above, the FLOAT can be turned over, but it can leak through the wire pipe into the wire inlet.)

■ It does not work during vertical installation.

■ Screws and FLANGE must be fastened clearly to prevent leakage.



- **Cable England, Blanking Element above certification level suitable for the highest temperature (80.1°C) of cable inlet shall be used.**

- **Heat resistant cables suitable for the highest temperature (80.1°C) at the cable inlet should be used.**

■ When installing the sensor, avoid shaking areas or obstacles.

■ The temperature and pressure generated inside the tank must be checked to meet the specifications.

■ The flange or screw engagement should be of the same specification.

■ Gasket must be used for flange and flange engagement.

(The gasket should be selected by considering the temperature of the contents and the pressure of the container.)



**In the case of explosion-proof products, they must be installed**

### ■ Contact

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