

HITROL CO., LTD.

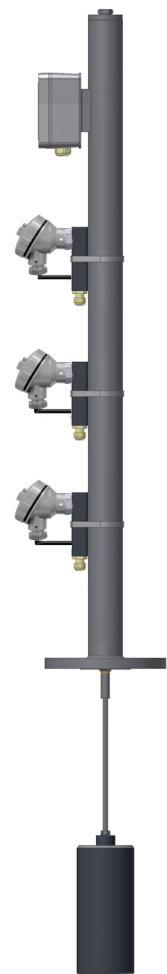
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CATALOGUE

FLOAT TYPE LEVEL SWITCH

HR-50 Series



Doc. no.: HR-50_E_Rev.0

Issue date: 2024. 10

Overview

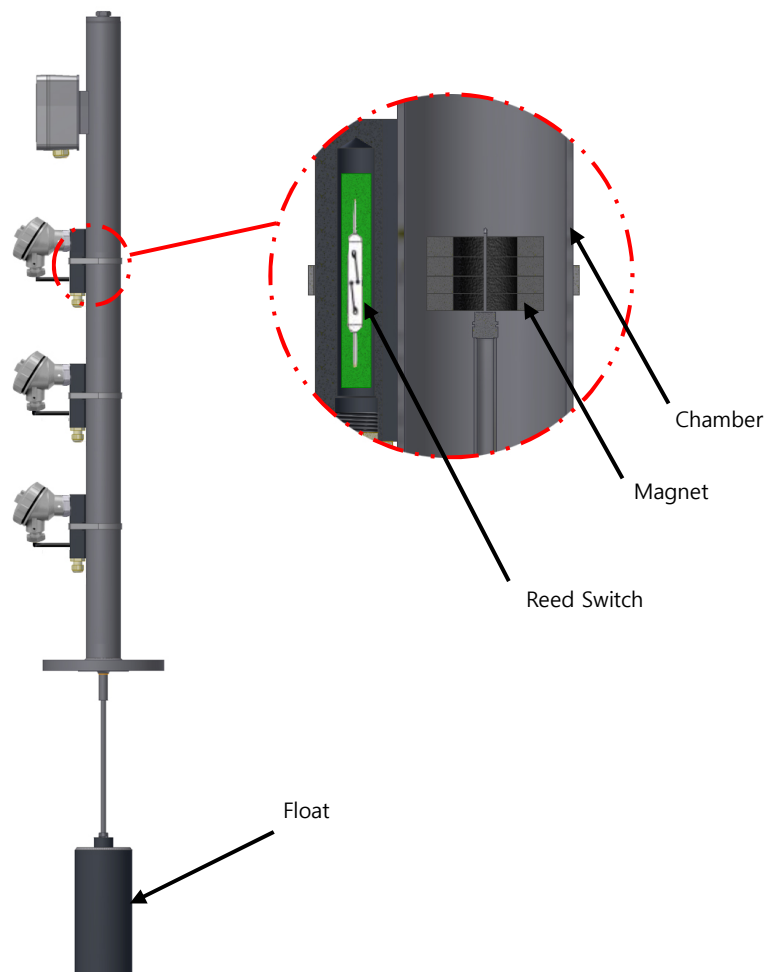
The HR-50 Series is a Float Type Level Switch that operates using a Reed Switch and a magnet. It can be installed on top of various storage containers to detect multiple contacts. HR-50 has great advantages where foreign objects or scales occur in the measurements, and its robust structure and high reliability make it widely available in industrial applications.

Characteristics

- Used for various liquid measurements
- Multiple detection locations are possible
- Robust construction and high reliability

Operation Principle

In the HR-50 Series, when a float designed to fit the weight of the measurement moves up and down equal to the liquid level by buoyancy, a magnet inside the chamber operates the Reed Switch installed outside the chamber to generate a contact point. You can set a number of detection positions to adjust the upper and lower alarm or adjust the level.



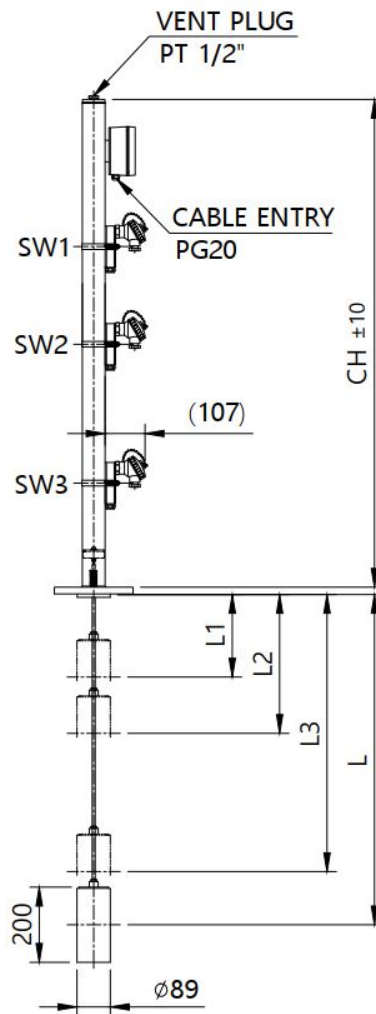
Specifications LEVEL ELEMENT

Model	HR-50	
Mounting	Flange	
Process Temperature	Max. 60°C	
Process Pressure	ATM	
Enclosure	Weather-Proof	
Process Connection	100A JIS 10K	
Material	Chamber Body	304 SS
	Float	PVC
	Terminal Box	ABS
Cable Entry	PG20	
Measuring Range	Max. 2500mm	

LEVEL SWITCH

Model	HR-10L	
Type	Reed Switch	
Ambient Temperature	-20°C ~ +60°C	
Contact Form	SPDT	
Contact Rating	AC 220V, 0.5A / DC 24V, 0.5A	
Enclosure	Weather-Proof (IP65)	
Material	Housing	Aluminum
	Body	Duralumin

**Product
Dimensions**



**Precautions for
Installation**

- It must be the same specification when engaging flanges or screws.
- The user shall fasten a washer between the bolt and nut to prevent loosening.
- When fastening the product to the tank, it must be fastened to ensure maximum bonding using tools, etc.
- Gaskets must be used to engage flanges and flanges. (Gaskets should be selected by considering the temperature of the contents and the pressure of the container.)
- With the use of the level switch (HR-10L), no special precautions are required as it is



When moving and transporting the product, do not make a big impact on the product.

■ Contact information of headquarters, factories, and research institutes
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