

**HITROL CO., LTD.**

HEAD OFFICE.FACTORY.R&D INSTITUTE  
HITROL CO., LTD 141, Palhakgol-gil, Jori-eup  
Paju-si, Gyeonggi-do, Korea  
TEL. : (00)-82-31-950-9700  
FAX. : (00)-82-31-943-5600  
www.hitrol.com

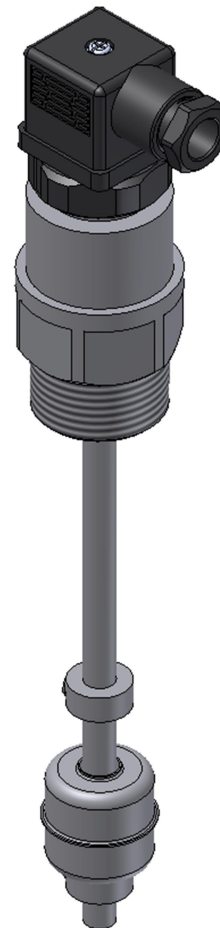


---

# **CATALOGUE**

## **FLOAT TYPE LEVEL SWITCH**

### **HR-10 Series**



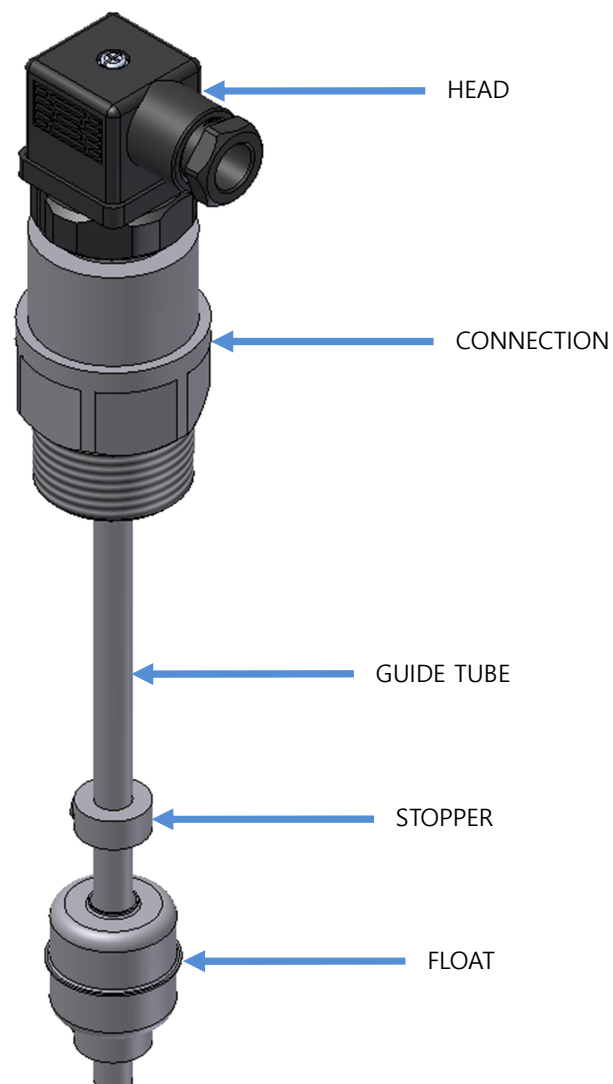
Doc. no.: HR-10\_E\_Rev.0

Issue date: 2025. 06

**Overview** HR-10 Series is a Float Type Level Switch which is basically operated with the usage of reed switch and magnet. It can be applied to various storage containers. Also, it can be

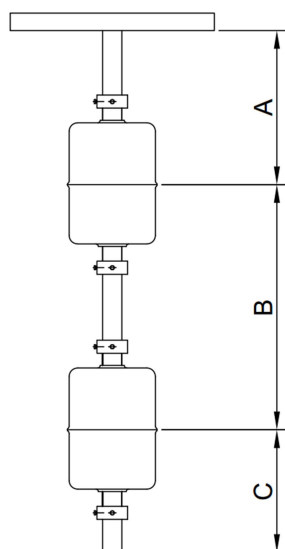
**Operating Principle** As liquid level is changed in the tank, the float which is manufactured in accordance with the specific gravity of liquid moves upward or downward along the guide pipe with the same liquid level by buoyancy. The built-in magnet in the float activates reed switch which is located in the guide pipe and contact signal is out. Each alarm or H/L control with multiple setting points is available.

- Characteristics**
- Widely used to measure various liquid
  - Applicable to small tank
  - Long life cycle
  - Strong structure and high reliability
  - Easy Installation



**Specifications**

Model	HR-10S	HR-10T
Mounting	Screw, Flange	
Temperature	Max. 80°C	Max. 60°C
Process Pressure	Up to 20kg/cm <sup>2</sup> (300#)	0.5kg/cm <sup>2</sup>
Ambient Temperature	-20°C ~ +60°C	
Switch Type	Reed S/W	
Switch Form	SPST(Std.), SPDT(Opt.)	
Enclosure	Weather-Proof	
Wetted Part Material	316L SS	PVC, PP(Float)
Process Connection	PT 1" Screw	PT 1-1/2" Screw
Housing	PA66(Std.), AL(Opt.)	ABS(Std.), AL(Opt.)
Cable Entry	PG7(Std.)	PF 3/4"(F)(Std.)
Contact Form	SPST, SPDT	SPST
Max. Contact Form	1-SPST, 2-SPST, 1-SPDT	1-SPST
Contact Rating	24VDC / 0.5A / 10W (SPST) 24VDC / 0.25A / 5W (SPDT)	24VDC / 0.28A / 10W (SPST)

**Minimum Section Distance**

Standard Type	Float Size
	1"
Section A(mm)	40
Section B(mm)	55
Section C(mm)	40(100)

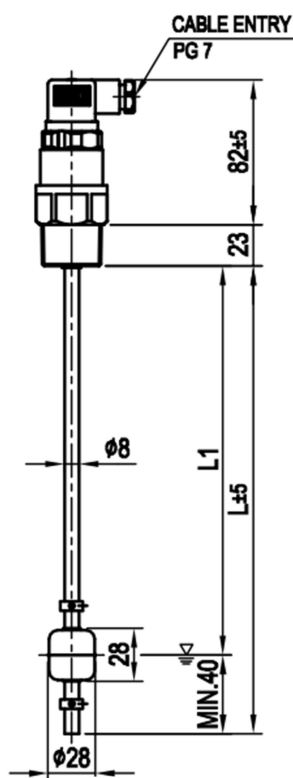
A = Upper Dead Band; Minimum length which cannot be measured from the bottom of flange

B = Minimum distance between two setting points

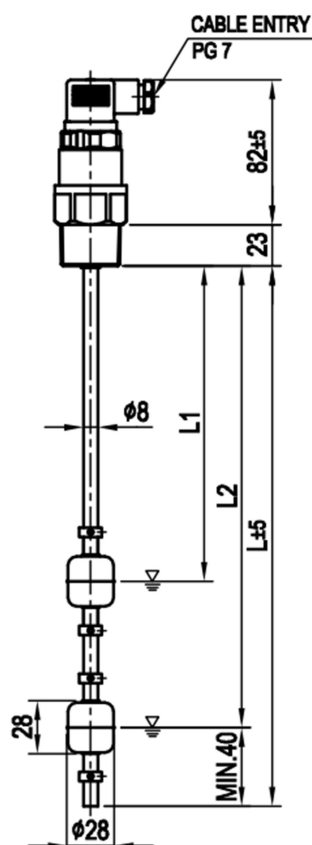
C = Lower Dead Band; Minimum length which cannot be measured from the end of guide pipe

( ) = Latching Type; Minimum distance between two setting points for detecting by one float; Minimum distance = 20mm

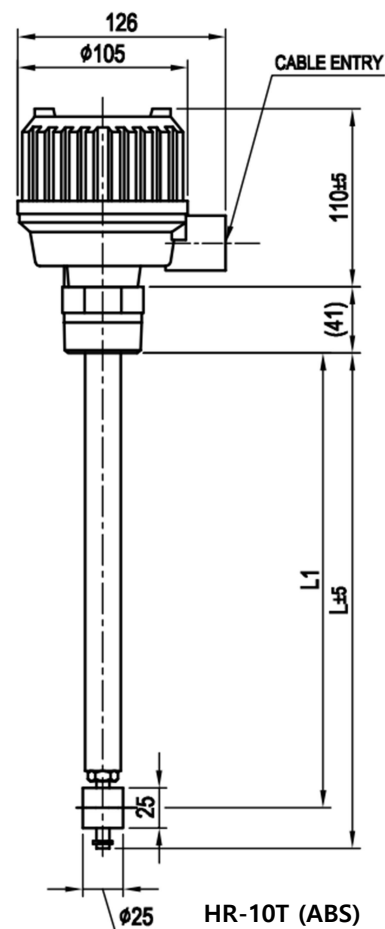
Dimensions <WEATHER-PROOF Version>



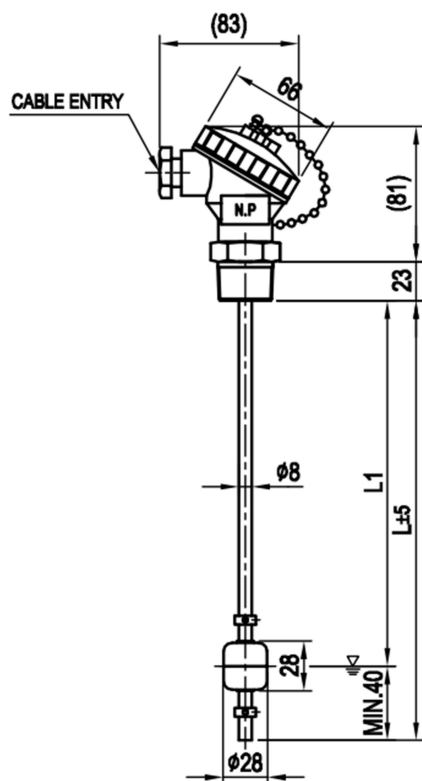
HR-10S-1F (PA66)



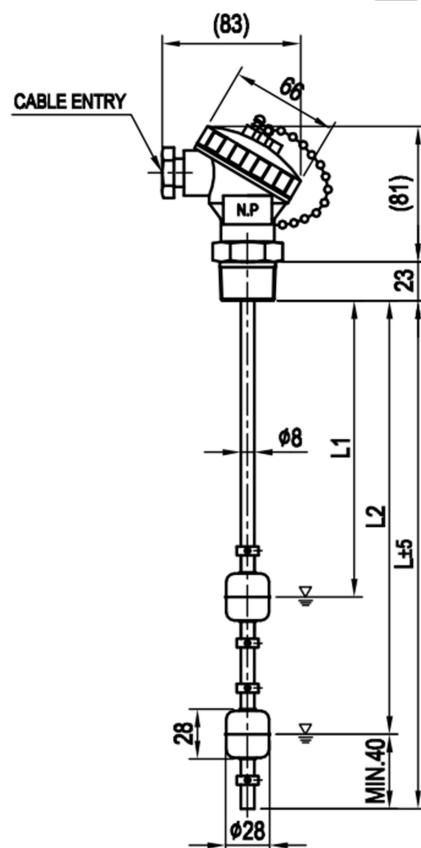
HR-10S-2F (PA66)



HR-10T (ABS)



HR-10S-1F (AL)



HR-10S-2F (AL)

## Precautions

- Use the same standard flange or screw.

## for Installation

- Make sure to insert washers between bolts and nuts to prevent loosening.
- Make sure to insert gaskets between flanges. (Select the gaskets in consideration of temperature of content and pressure of vessel.)
- After the installation is complete and the cover of the product is assembled, power it on.



**Please do not apply high impact to the product.**

## Warranty and

## Contact

### ■ Warranty and Service

This product is subject to the warranty for 2 years of shipment and unpaid service will be provided for any damage found under normal operating conditions. If it is not about the failure of product, the service charge will be payable.

You can request A/S at our website or by contacting our headquarters.

### ■ Headquarters . Factory . Laboratory Contact Number

ADDRESS: HITROL CO., LTD 141, Palhakgol-gil, Jori-eup, Paju-si, Gyeonggi-do, Korea

T E L : 031-950-9700 (Headquarters & A/S)

F A X : 031-943-5600 (Headquarters & A/S)