



Tianjin ZINACA Intelligent Equipment Co., Ltd

Side-mounted Duckbill Float Level Switch Technical Specifications



1. Product Description

This side-mounted float level switch adopts a duckbill-shaped float design for reliable liquid level detection. It is suitable for applications involving pure water or antifreeze solutions and features a robust stainless-steel construction. The device provides a normally open (NO) switching function and is designed for easy installation on tank or pipe walls, offering stable performance under harsh temperature conditions ranging from -30°C to 85°C. The electrical interface uses a Hirschmann connector to ensure secure signal transmission and IP65-level protection.

2. Operating Conditions

- **Ambient Temperature:** -30 to 85°C
 - **Medium:** Pure water or 55% ethylene glycol antifreeze
 - **Medium Temperature:** -30 to 85°C
-

3. Main Technical Specifications and Requirements

3.1 Structure

1. Connection Type:

- One end: G1/2" male thread, equipped with one locking nut (SUS304) and two face gaskets (silicone rubber or EPDM)
 - The other end: Hirschmann connector
2. **Pressure Rating:** 1.0 MPa (excluding thin-plate installation method)
3. **Contact Type:** Normally Open (NO)
-

3.2 Electrical Parameters

- **Maximum Power:** 10 W
 - **Maximum Switching Voltage:** 110 VDC
 - **Maximum Switching Current:** 0.5 A
 - **Minimum Breakdown Voltage:** 220 VDC
 - **Maximum Load Current:** 1 A
 - **Maximum Contact Resistance:** 100 mΩ
 - **Applicable Liquid Specific Gravity:** ≥ 0.92
 - **Protection Grade:** IP65 (at electrical connector)
-



3.3 Materials and Dimensional Requirements

- **Material:** SUS304
 - **Wetted parts must not contain copper, graphite, or similar materials**
 - **Appearance and dimensions shall comply with the product specification sheet (see Appendix 1)**
-

3.4 Certification Requirements

- The product must comply with **RoHS 2.0** and **CE certification** standards