

Wireless Float Switch Liquid Level Alarm System

Technical Datasheet

1. Product Overview

The Wireless Float Switch Liquid Level Alarm System is an advanced, cable-free monitoring solution designed for water tanks, wells, and reservoirs. Utilizing reliable LoRa wireless technology, it eliminates complex wiring and instantly triggers high-decibel audio and visual strobe alerts upon detecting water shortages or tank overflows.

2. Key Features

- **Cable-Free Installation:** Saves significant time, labor costs, and materials by removing the requirement for trenching or long wire runs.
- **Audio & Visual Alarms:** Features a high-intensity flashing red strobe light combined with an audible alarm to ensure immediate notice, even in noisy outdoor or industrial environments.
- **Long-Range Wireless Linkage:** Offers stable connectivity with a line-of-sight transmission range of up to 1 kilometer.
- **Zero Interference:** Multiple sets of equipment can operate simultaneously within the same area without frequency interference or cross-talk.
- **Flexible Power Options:** Supports wide-voltage DC power inputs to fit various on-site power configurations.

3. Operating Principle

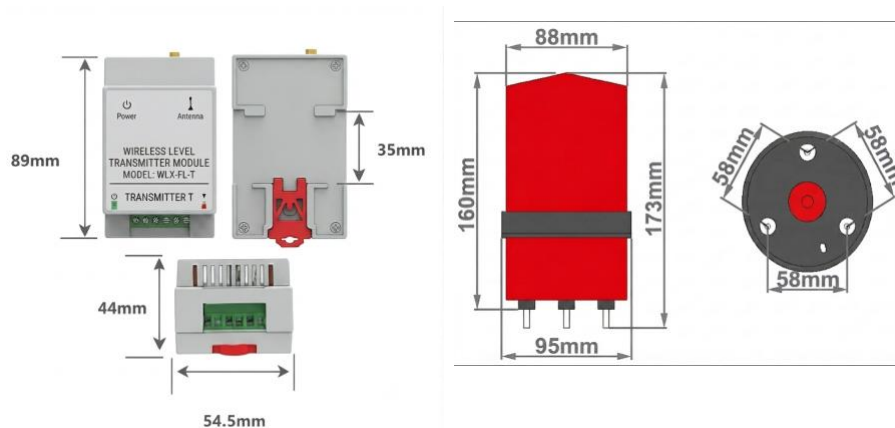
The system works through wireless signal transmission between a float switch and a remote alarm receiver:

Status	System Action
Float Switch Closed	Transmitter sends wireless signal; receiver immediately triggers audio & visual alarm.
Float Switch Open	Alarm stops automatically.

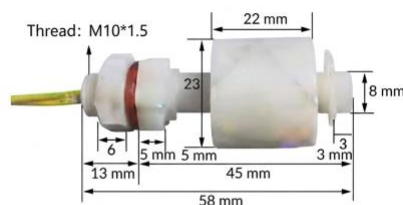
4. Technical Specifications

Category	Parameter	Specification
RF & Transmission	Wireless Technology	Lora Long-Range Wireless Transmission
	Transmission Range	1 km / 3 km / 5 km / 8 km (Optional)
Power	Power Supply	DC 12V – 24V/ terminal block (Optional)
Voice Specs	Alarm Type	Audio & Visual Alarm (Strobe Light & Siren)
	Alarm Volume	Fixed / Adjustable (Default 110 dB High-Output)
	Alarm Light Color	Red (Default)
Mechanical & Setup	Installation Method	Bracket Mount / Magnetic Mount (Options)
	Compatible Sensors	Float Switch (with 40 cm cable, extension supported)
Mechanical & Environment	Operating Temp	-40 °C to +80 °C
	Physical Dimensions	Refer to Figure 1

Figure 1



FLOAT SWITCH DIMENSIONS DRAWING



Disclaimer: All specifications, designs, and information contained herein are subject to change without prior notice. Please refer to the actual product for final delivery.