



## FLOATLESS LEVEL SWITCH USER MANUAL

Thank you for choosing Floatless Level Switch Control Relay. Please read this manual before installation, operation and maintenance.

### OVERVIEW

Floatless level switch is a kind of switch that controls the height of the liquid level in the container. It uses the conductivity of the liquid to turn on or off the contact output when the liquid level reaches a certain height, and automatically monitor run or stop of the water pump to achieve the purpose of controlling the amount of liquid in the container.

Application: It is generally used in homes, industries, commercial places, public places and other places where automatic monitoring of water supply and drainage systems is required. It has small size and complete specification. It can be widely used in domestic water systems, sewage treatment systems, and special liquids supply systems.

### STANDARD AND QUALITY CERTIFICATES

EN 60947-5-1



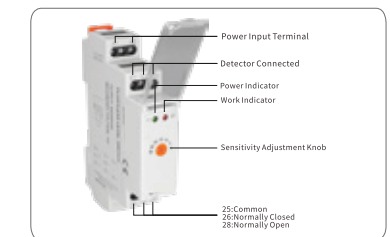
Type	Sensitivity	Output Voltage	Applicable Environment
VFS-12/S	Medium Sensitivity, Adjustable	12V	Used for normal purified water and sewage.

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### TECHNICAL SPECIFICATIONS

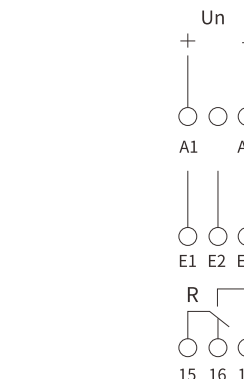
Output Characteristics	SPDT
Rated Current	5A
Working Voltage	AC110V, AC220V
Output Voltage	12V
Applicable Environment	Used for normal purified water and sewage.

### PRODUCT FUNCTIONS



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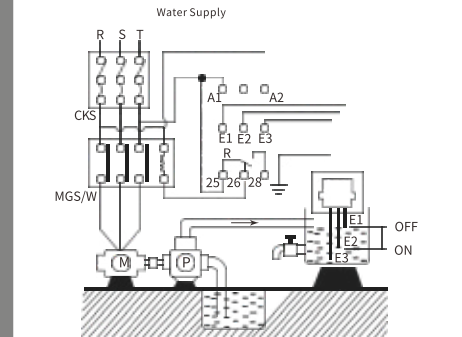
### WIRING DIAGRAMS



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### WATER SUPPLY WIRING DIAGRAM

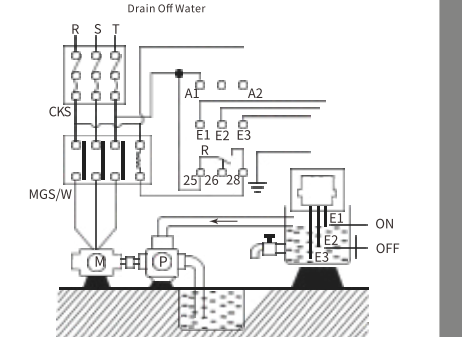
When water level of tank reaches E1, pump stops working and stops the water intake; when water level drops below E2, pump runs automatically and water tank starts to enter water. When pump is running, the light is off.



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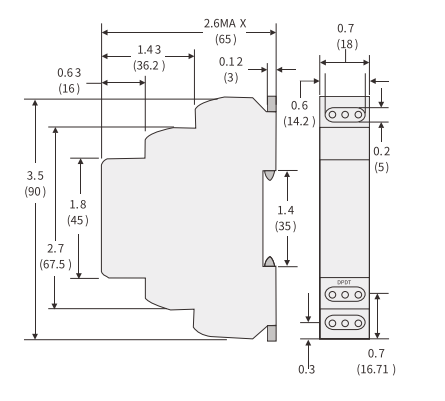
### DRAINAGE WIRING DIAGRAM

When water level of tank reaches E1, pump starts to work and starts to drain; when water level drops below E2, pump stops working and water tank stops draining. When pump is running, the light is on.



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### DIMENSIONS (mm)



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### WARRANTY CONDITIONS

- Warranty period starts as of the delivery date of the product and it is 2 years.
- Warranty covers the malfunctions likely to occur due to the manufacturing defects of the product and within the warranty period.
- The product including all of its parts is under warranty as a whole. If the product turns out to be defective, the consumer can use one of the following rights stipulated in Article 11 of Consumer Protection Law no. 6502:
  - a- Withdrawal from the contract
  - b- Demanding discount from sales fee
  - c- Demanding free repair,
  - d- Demanding the replacement of the sold one with a fungible one free from defects.
- In case the consumer chooses the right of free repair among those rights; the dealer is obliged to repair the product or have the product repaired without claiming any fee under the name of replaced part fee, labor cost or for any other reasons. The consumer can also use the right of free repair against the manufacturer or exporter. The dealer, manufacturer and exporter are jointly and severally liable for the usage of this right by the consumer.
- In case the consumer uses the right of free repair and if the product fails within the warranty period again and the maximum period required for the repair is exceeded and Authorized service station, dealer, manufacturer or exporter state that it's not possible to repair the product in a report, the consumer can demand the return of the product fee, fee discount at the ratio of the defect or the replacement with the one free of defects, if possible, from the dealer. The dealer can not reject the demand of the consumer. In case this demand is not met, the dealer, manufacturer and exporter shall jointly and severally be held responsible.

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### WARRANTY CONDITIONS

- The repair period of the product can not exceed 20 business days.
- This period starts on the notification of the failure on the product to the authorized service station or the dealer within the warranty period and from the date of delivery of the product to the authorized service station out of warranty period. In case of not eliminating the product malfunction within 10 business days, manufacturer or importer is obliged to dedicate another product with similar characteristics to the use of the consumer until the completion of the product repair. In case the product fails within the warranty period, elapsed time is added to the warranty period.
- Usage of the product contrary to the rules stipulated in user's manual, operating out of determined voltage, current and environmental conditions, damage on the cable connection due to the user's fault and failure of the product due to the facts arising from the fire, flood, earthquake, lightning and similar disasters are not under warranty.
- The consumer can apply to the arbitration committee for consumers or the consumer court where the consumer operations are made or in the residential area for the disputes to be occurred regarding the usage of the rights arising from the warranty.
- In case the dealer doesn't provide this certificate of warranty, the consumer can apply to the General Directorate of Consumer Protection and Market Surveillance of Ministry of Customs and Trade"

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### WARNING

- Ensure that the power is cut off before the assembly of the products
- Connection and assembly of the electrical devices should be carried out only by the technical personnel having certificate of competency.
- No responsibility is assumed for the entire of the malfunction, accident and loss arising from the assembly or interference of the persons not having the competency certificate.
- Never use alcohol, cologne, detergent or other similar chemicals for cleaning. Do not perform wet cleaning do not contact the product with water when the product is energized.
- Keep the product away from the damp or wet environment during the transportation and shipping.

### PANASONIC AND ENVIROMENT

As Panasonic, we are aware of the contribution of a balanced relation established between human and nature to the sustainable life. Thanks to our continuous innovation and R&D studies, we prefer materials and technologies that are not affecting the environment in a negative way during the production and usage of the products starting from the designing phase. We take necessary measures to use energy and natural sources in a more efficient way.

This symbol indicates separate collection of waste electrical and electronic equipment.

### PANASONIC CUSTOMER RELATIONS

Dear Customer,  
We believe in providing quality service to your as well as offering quality products-

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