



Catalogue 2024

About US

Established in 1995, WELL CONTACTS COMPANY, a proprietorship organisation, initially focused on supplying industrial electrical products to diverse Indian industries. Recognizing the recurring issues with Chinese and low-quality float switches, causing frequent replacements, we decided to address this challenge by venturing into the manufacturing of high-quality float switches in 2018. This strategic move aimed to mitigate the frustrations of engineers, reduce time and revenue losses, and prevent wastage of precious water. Since then, we have successfully exported customized brands to various countries and PAN India. Additionally, we provide OEM branding for select Indian clients, tailoring products to meet their specifications. Our modern machines allow us to effectively cater to both international and Indian markets.

Supported by an experienced team, we offer competitive pricing and immediate after-sales services, building trust with clients for over 30 years. Our products are supplied to reputed companies. Remarkably, our float switches have operated flawlessly in Singapore's high-rise buildings since 2018.

VISION

We are dedicated to advancing our technology and offering unparalleled customer support. Our commitment extends to expanding our global presence by exporting our products to numerous countries in the near future.

VALUES

TRUST

At our management's core is trust. Grounded in reliability, collaboration defines us as a steadfast partner, prioritizing enduring relationships with employees, customers, suppliers, partners, government entities, and stakeholders.

RESPONSIBILITY

Accountability is paramount. WELL CONTACTS CO leadership exemplifies financial responsibility. Our commitment extends to environmental and societal concerns, integral to our dedication to sustainability.

IMPROVEMENT

Never complacent, we actively seek progress, remaining respective to new ideas and seizing opportunities. Continuous improvement is ingrained in our approach, consistently enhancing products and refining processes for greater efficiency.

Our Dedicated Team



Corporate Office



CSR Initiative



Specifications of The Float Switch

- Voltage rating spans from 220-240VAC.
- ISI-approved electro-grade copper cables from 1.0, 1.5 and 2.5 sq. mm cable.
- Maximum pressure handling is 2 bar.
- Direct load support up to 1.5HP (not recommended).
- Indirect load (single or 3-phase) accommodates any range.
- Can endure temperatures up to 80 °Celsius.
- Maximum current carrying capacity is 16 Amps (21 Amps available upon request).
- IP-68 protection grade (Certificate available on request).
- Round-shaped float switch with a 90mm diameter and 50mm depth.
- Three-core copper cable in red, green, and black colors, where black is common. Red with black is NO for overhead tanks, and green with black is NC for sumps.
- Ideal for level control in overhead and underground (sump) water tanks.
- Enables automatic pump start/stop without requiring a sensor.
- Operates entirely mechanically.
- Suitable for use with alarms to signal basement flooding.
- Crafted from environmentally friendly reliance food-grade polymer, resistant to corrosion in hard water, salt water, sea water, milk and diesel our float switches can be used but not for oil and acid's.
- Features double-seal protection at the cable entry point.
- Offers increased durability and high impact resistance due to virgin polymer material.
- Each float switch comes with a nylon cable tie for counter weight adjustment.
- Backed by a twelve-month's guarantee.
- Presented in an attractive individual corrugated box packaging.
- Manufactured using state-of-the-art injection moulding technology.
- Custom branding and colors available upon request.
- The total number of operations of the float switch is 5000 times.
- Durability test is made up to one ton, 3mm thickness of the entire float avoids brittle due to sunlight. Hence increase the life of the float switch



MSME
MICRO, SMALL & MEDIUM ENTERPRISES
सूक्ष्म, लघु एवं मध्यम उद्यम



VACHAN Float Switch's with 3 core copper cable with counter weight in PP Covers.

Sl.No	Ordering Code	Length of cable (in meters)	Weight of each float switch (with counter weight)
1.	VFS002	2	550 grams
2.	VFS003	3	650 grams
3.	VFS005	5	835 grams
4.	VFS010	10	1.275 kgs
5.	VFS015	15	1.700 kgs
6.	VFS020	20	2.000 kgs
7.	VFS025	25	2.600 kgs
8.	VFS050	50	5.100 kgs
9.	VFS100	100	10 kgs

** Customised Lengths can be made on request



Scan to know the quality
of Vachan Float Switch



Scan to know the right way of
connecting the Vachan Float Switch



Scan to Download the
catalogue

How does Vachan Float Switch work?

VACHAN float switches monitor liquid levels in tanks, functioning as mechanical switches that respond to level fluctuations. They efficiently control pumps, valves, and alarms for user notification, known for their cost-effectiveness and reliability across various liquid applications.

These switches move vertically with the liquid, and their mechanical switches open or close based on counterweight and pre-set triggers. Closure initiates an electrical current through the switch, activating connected devices like pumps. Comprising a hollow floating body and an internal micro switch, VACHAN float switches create an electrical circuit, responding to water levels in the tank.

External counterweight switches operate at specific angles, with cable length determining the required liquid rise or fall for a state change. To optimize functionality, these switches have recommended cable lengths, suggesting a minimum of five meters for flexibility, external jointing, and extended lifespan. VACHAN float switches are recommended for saltwater, hard water, sea water, milk and diesel.

What sets Vachan Float Switch Apart from Others?

- Utilizes a 16 Amps micro switch (Can be upgraded to 21 Amps micro switch on request).
- Supply of ISI approved & ISO 9001:2015; 14001; 45001 copper cables.
- Standard wire lengths: 2, 3, 5, 10, 15, 20, 25, 50, and 100 meters. Also can be manufactured in custom lengths 2.5, 4, 7, 12, 18, 22, 35 meters as per client specifications.
- Offers custom branding and color options based on minimum order quantities.
- Provides a 12-months replacement policy on a piece-to-piece basis.
- Features a round design to prevent getting stuck in tank corners.
- Successfully passes IP-68 testing.
- Allows for customized cable sizes ranging from 1.0, 1.5 and 2.5 sq.mm. cable.
- Each float undergoes multiple quality checks

Float Switch Application

VACHAN FLOAT SWITCH monitors the liquid level in various residential and industrial applications. The switch is typically connected to a pump, valve (e.g., solenoid or electric ball valve), or an alarm to notify a user. Due to the variety of designs and types, they can be used in various applications. Common examples are:

- Sump pump float switches can detect and actuate a pump to prevent rising water levels in the sump pit. They can be used in sump and sewage pits.
- Water tank float switches can help control water levels for potable water, rainwater, wastewater, and sewage application. The pump switches on/off with the rise/fall of the float switch in the water.
- The beverage industry uses float switches for filling or emptying beverage tanks.
- Industrial washers use them to monitor the washer water level.
- To control the water level in the tanks of apartments, individual residence, industries, pharma industries, food industry, water treatment plants, sewage water & House hold etc, Not recommended for oil & Acid's.

Float Switch Wiring

Accurate electrical signals based on the three float switch's position require proper wiring. A 3-core cable, with red, green, and black colors, designates the black wire as the common connection. For overhead tanks, the red wire with black is NO (normally open), while for sumps, the green wire with black is NC (normally closed).

The VACHAN FLOAT SWITCH, highly reliable and commonly used, operates by opening or closing the electrical circuit at an angle of $\pm 65^\circ$. The fluid level triggering the switch is determined by the cable length beyond the counterweight. Using a longer cable, along with waterproof tape costing approximately Rs.15.00, to connect the connecting cable. Crucially, the joint should always be placed outside the water tank, preventing submersion.

What Causes A Float Switch to fail?

If a sump or sewage pump malfunctions, it is recommended to first inspect the float switch before deciding to replace the pump. A float switch may fail for various reasons:

- Incorrect configuration: Always consult the float switch manual and the associated equipment, such as a sump or sewage pump. The manual provides details on wiring and various configurations to ensure proper functioning in both ON and OFF states.
- Shorter length of float switch: Using a shorter length of the float switch may result in failure due to angle bending range and water entering through joints.
- Insufficient rating: The float switch has a rating indicating the electrical load it can handle. The manual includes technical specifications such as cable length, maximum operating temperature, and power rating. Exceeding the load rating can generate heat at the switch contacts, leading to malfunction.
- Incorrect design: Float switches are made from different materials or specific mechanical configurations based on their intended application. Using the wrong switch type may work temporarily but is more likely to fail or malfunction.
- Stuck float switch: A float switch stuck in the 'on' position may result from system clogging or the switch getting tangled up. This can cause the motor to fail to start or stop at certain times, eventually leading to motor burnout. If the sump pump expels a lot of air or there is water sloshing around, the float switch may get stuck on the sides of the sump pit.
- Debris: Debris in a sump basin can cause the float switch to remain stuck. It is essential to periodically clean the sump basin. Additionally, the float switch may rust over time and require replacement.
- Not recommended for certain uses: Avoid using the float switch for slurry-oriented water tanks or with chemicals and acids.
- Lack of waterproof tape: Failure may occur if waterproof tape is not used for joints. It is advisable to use waterproof tape not only on copper wire joints but also on the area where skinning has been done, with around a 6-inch length of tape securely rolled.
- Proper cable distance: Provide sufficient distance for a 2-core cable to prevent heat development and reduce the risk of a short circuit.

OTHER RANGE OF PRODUCTS.

Non IP-ABS Empty Enclosures for Various Applications.



123 x 74 x 48



78 x 63 x 38



88 x 115 x 68



90 x 90 x 48



86 x 106 x 60



123 x 88 x 50



123 x 73 x 48



88 x 115 x 54



90 x 90 x 44



120 x 77 x 70



98 x 62 x 50



98 x 62 x 50



95 x 68 x 55



110 x 65 x 60



18 x 62 x 45



132 x 98 x 70



80 x 44 x 43



132 x 98 x 70



100 x 74 x 58



110 x 67 x 40



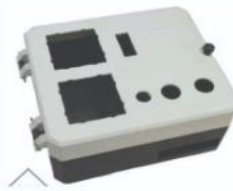
115 x 110 x 70



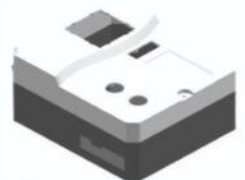
115 x 110 x 70



230 x 200 x 85



230 x 200 x 100



240 x 200 x 100



230 x 200 x 85



205 x 120 x 100



175 x 160 x 67



160 x 130 x 60

The expense associated with low-quality float switches is insufficient to ensure proper motor function, resulting in the wastage of valuable water, increased labor expenses, and frequent replacement with cheaper alternatives.

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