

ERLANG GROUP



HUBEI ERLANG TECHNOLOGY CO., LTD.
DONGGUAN ERLANG TECHNOLOGY CO., LTD.



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HUBEI ERLANG TECHNOLOGY CO., LTD.
DONGGUAN ERLANG TECHNOLOGY CO., LTD.
HONGKONG ERLANG TRADING CO., LTD.
HONGTU MOLD MANUFACTURING (XIANNING CITY) CO., LTD
HUBEI HONGWANG ELECTRONIC TECHNOLOGY CO., LTD
HUBEI HONGYI PLASTIC INDUSTRY CO., LTD
HUBEI JIURONG PACKAGING PRODUCTS CO., LTD

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📍 Taiwan Industrial Park,
Tongcheng County Economic Development Zone,
Hubei P.R., China



2023 VER 03

ABOUT ERLANG

In 1998, Taiwan Erlang Technology Co., Ltd. was established in Xindian City, Taiwan P.R., the company integrates R&D, production, sales and trade in one of the high-tech enterprises, long-term focus on water level sensing, water flow sensing, infrared sensing, pressure sensing, flow sensing and other sensors as well as molds, probes, magnetic rings, photovoltaic distribution boxes, floats, hardware products, plastic products, PE bags design and production.

Our company has long been adhering to the world's advanced production technology, continuous progress in experience, the pursuit of perfect quality and performance, to meet the growing needs of the market and customers, long-term adherence to excellent quality, good reputation, thoughtful service to win, enjoy the praise of many well-known enterprises at home and abroad.

Erlang is constantly developing and growing, currently has more than 300 employees, more than 30 national patents, Dongguan Erlang Technology Co., Ltd. has continuously won the title of Guangdong High-tech Enterprise and Dongguan Private Science and Technology Enterprise.

In the past 20 years, the products have been exported to more than 30 countries and regions around the world.

We adhere to the marketing policy of "market innovation products, product cohesion, strength to drive sales, sales to build the future", and take integrity as the foundation of the business, based on technology leadership, to create benefits for customers for the purpose, wholeheartedly meet the needs of customers, create a first-class enterprise business philosophy, and gradually become the leader of the industry.



2010 DONGGUAN FACTORY RELOCATION

The original Dongguan factory can no longer meet customer needs and personnel expansion, including new products barbecue forks, temperature and humidity sensors, dust sensors, flow meters and TDS probes, the required equipment and personnel increased after the discussion to relocate the factory to a new industrial park nearby.

2017 HUBEI FACTORY EXPANSION

In response to the needs of the market environment, after investigation, it was established in Tongcheng County, Xianning City, Hubei Province and spent 50 million yuan to build a new foreign-funded company, and the plant equipment and site planning are based on the exclusive sensor production method and the layout of the mode that can improve automation in the future.



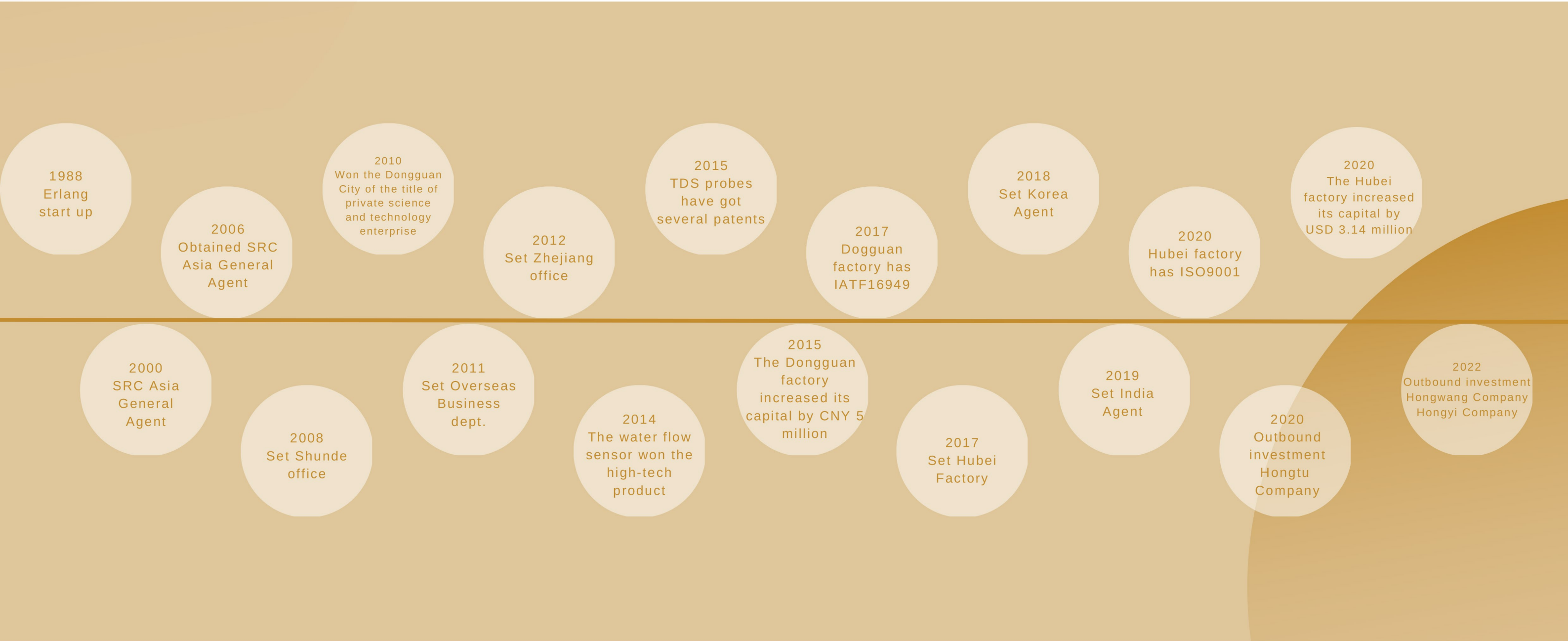
2018 HUBEI FACTORY OPERATION

Officially put into production, at present, Hubei Taiwan Industrial Park mainly produces float switches, proximity switches, TDS probes, flow meters, and the park contains molds, probes, magnetic rings, photovoltaic distribution boxes, floats, hardware products, plastic products, PE bag design and production, etc.



HISTORY

历史沿革



FACTORY

厂房展示



At present, the main production base is Hubei Erlang Industrial Park

The development of the park is based on innovative industrial technology

Adhere to the 7S management principles

Seiri、Seiton、Seiso、Seiketsu、Shitsuke、Safety、Speed

REED SWITCH

Reed Switch is a special kind of magnetic switch, and is the main component reed relays and proximity switches

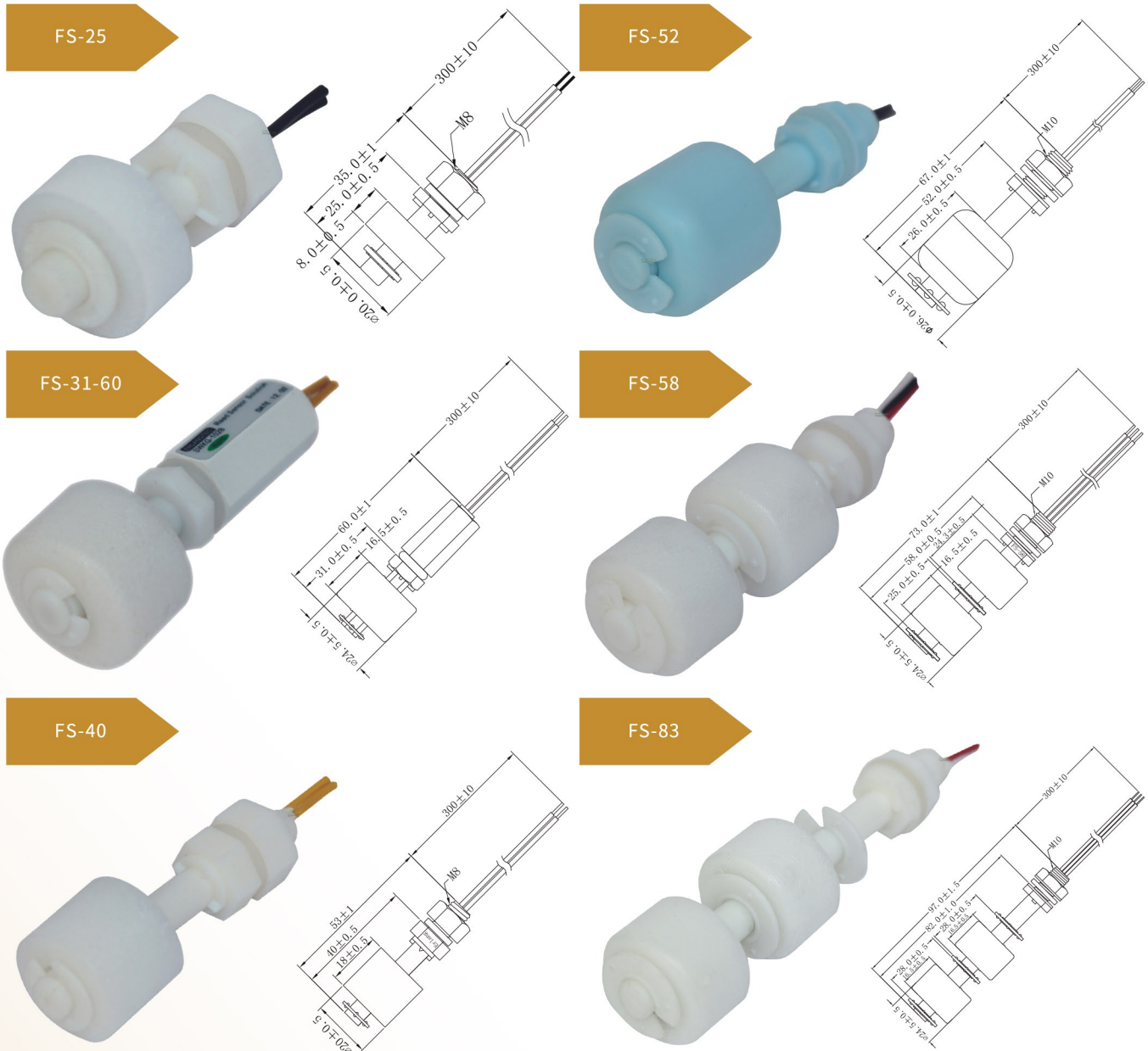
we're alway used the export reed swith to make any product.

PARTNERS								
BRAND	OKI			Hamlim			MKA	
MODEL NUMBER	ORD-324	ORD-624	ORD-229	FLEX-14	MDCG-4	MRPR-20	MKA-14103	MKA-20103
CONTACT METHOD	A (SPST)	A (SPST)	A (SPST)	A (SPST)	A (SPST)	A (SPST)	A (SPST)	A (SPST)
RATED POWER	10 W	10 W	50 W	10 W	10 W	50 W	10W	50W
MAX. SWITCH VOLTAGE	DC 200 V	DC 200 V	DC 300 V	DC 200 V	DC 200 V	DC 250 V	DC 200 V	DC 250 V
MIN. BROKE VOLTAGE	DC 250 V	DC 250 V	DC 350 V	DC 250 V	DC 250 V	DC 350 V	DC 250 V	DC 300 V
MAX. SWITCH CURRENT	DC 0.5A	DC 0.5A	DC 0.7A	DC 0.5A	DC 0.5A	DC 1.5A	DC 0.5A	DC 1A
MIN. LOAD CURRENT	DC 1A	DC 1A	DC 2.5A	DC 1A	DC 1.2A	DC 3A	DC 1A	DC 2A
MAX. CONTACT RESISTANCE	100 mΩ	100 mΩ	100 mΩ	100 mΩ	100 mΩ	100 mΩ	100 mΩ	100 mΩ
MIN. INSULATION RESISTANCE	10 10 Ω	10 10 Ω	10 10 Ω	10 10 Ω	10 10 Ω	10 10 Ω	10 10 Ω	10 10 Ω
ACTION TIME	0.4 ms	0.4 ms	0.6 ms	0.55 ms	0.6 ms	0.75 ms	1 ms	0.75 ms
RELEASE TIME	0.05 ms	0.05 ms	0.05 ms	0.2 ms	0.2 ms	0.3 ms	0.4 ms	0.3 ms
OPERATING FREQUENCY	5.2 KHz	6.7 KHz	2.5 KHz	5.2 KHz	3.9 KHz	2.1 KHz	4 KHz	2.6 KHz
SENSITIVITY VALUE	10-50 AT	7-30 AT	20-60 AT	10-30 AT	12-38 AT	17-43 AT	8-35 AT	20-50 AT

LEVEL SWITCH

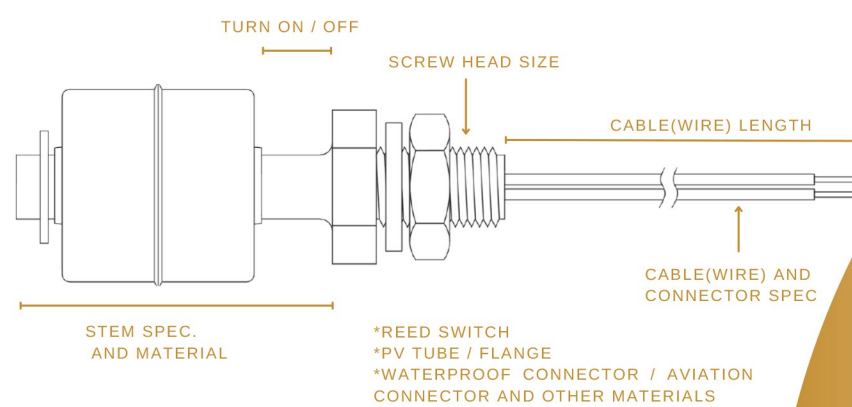
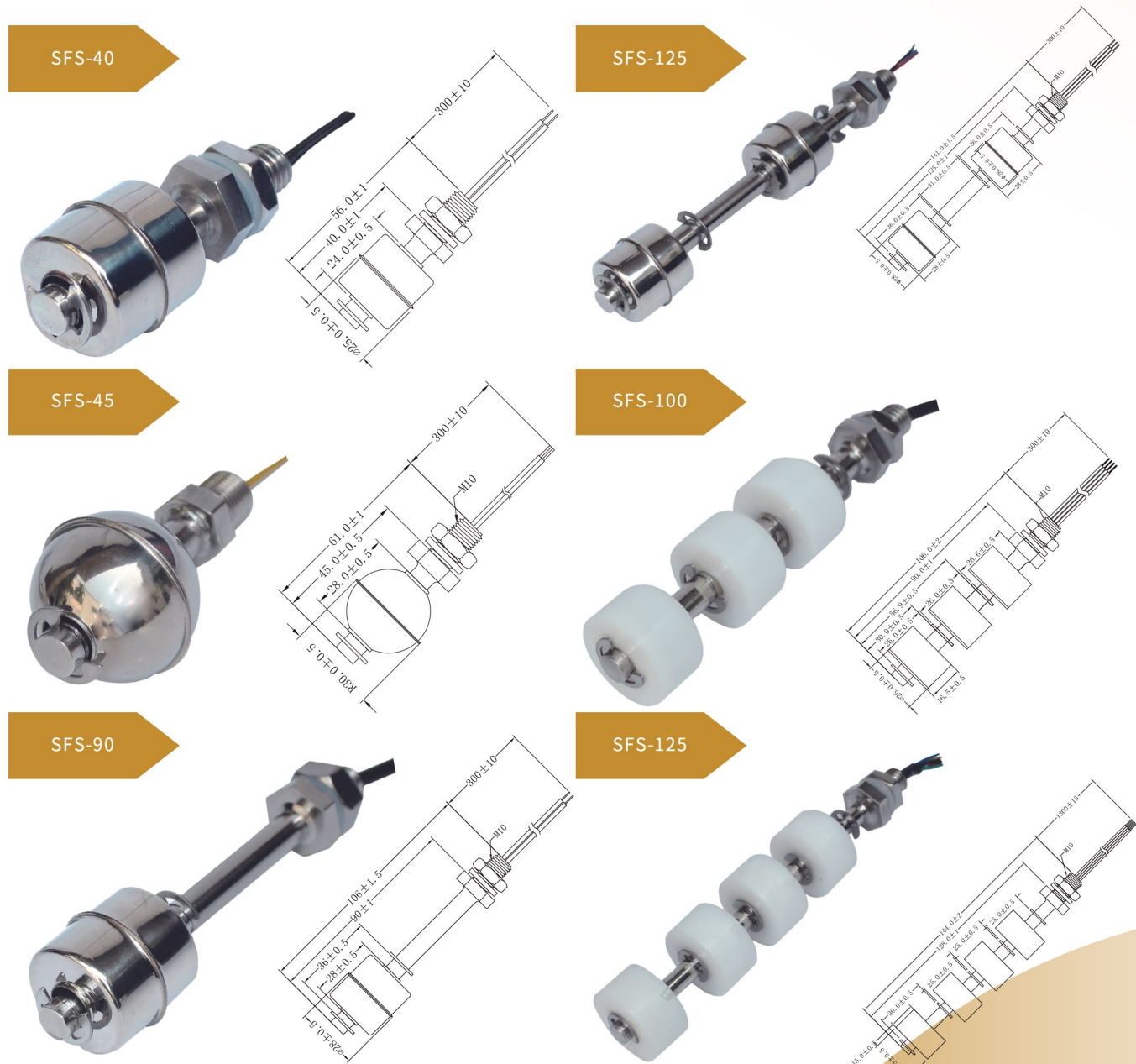
level switch is mainly used in equipment which request water level is regularly kept unchangeably. As a water level automatic control, it works when connected with implementation devices such as water pump or solenoid valve. Water level switch can be widely used in automobile, industry equipment, agriculture equipment and household electrical appliances such as air conditioner,water dispenser, humidifier,dehumidifier,etc. Function Characteristics: when liquid level rises (or falls), switch will turn on/turn off. (Alternative)

VERTICAL MOUNTING SERIES



LEVEL SWITCH

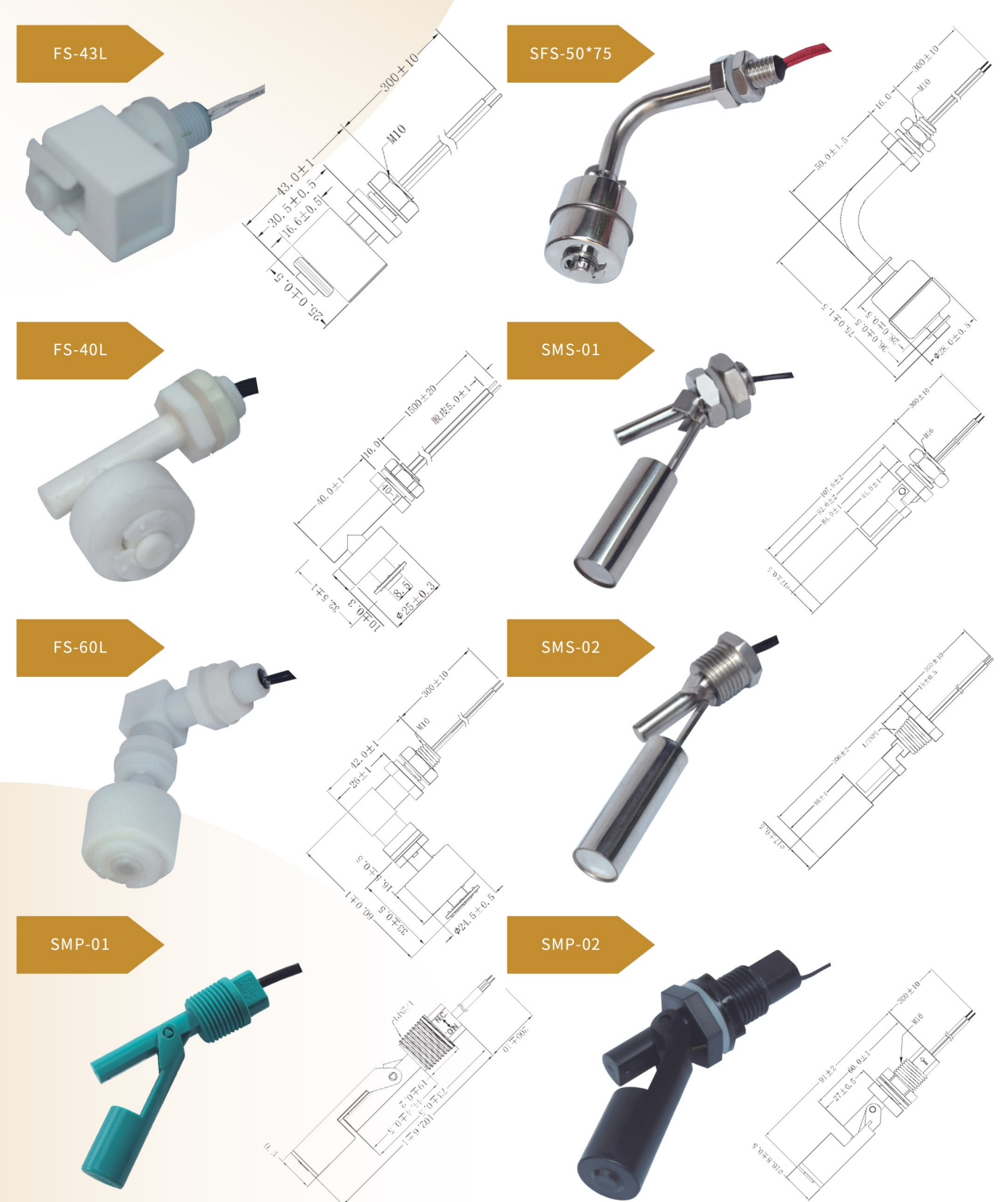
VERTICAL MOUNTING SERIES



CAN BE CUSTOMIZED
PRODUCT DESCRIPTIONS

LEVEL SWITCH

SIDE MOUNTING SERIES



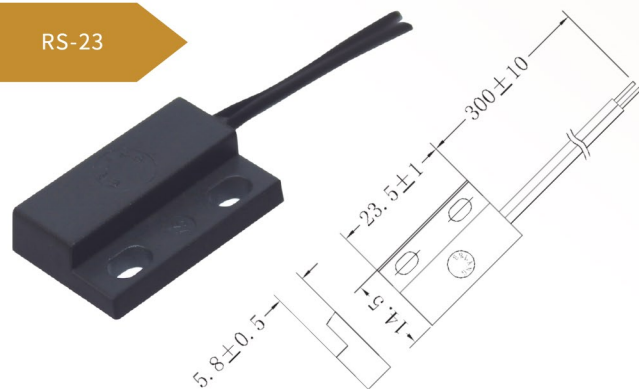
PROXIMITY SWITCH

Proximity sensor is constructed by shaping and sealing the magnetic spring tube connected with wires. Switching action will occur when a magnetic object is in the proximity. It is usually used as a position sensor. Proximity sensor is widely used in measuring instruments, office automated equipment, household supplies, security and safety equipment, and transportation equipment.

RS-5*13



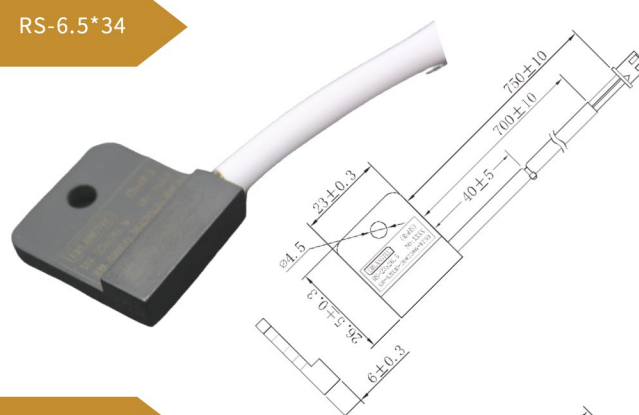
RS-23



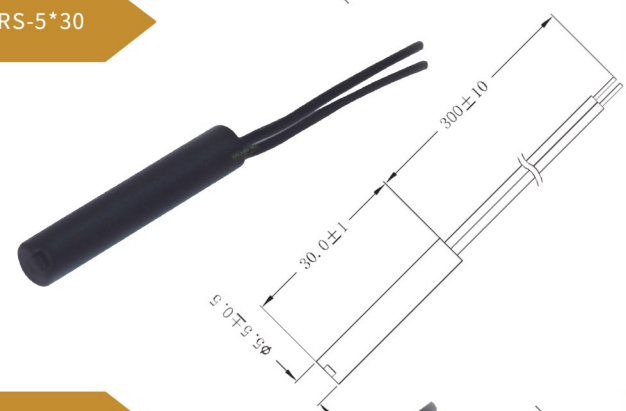
RS-5*25



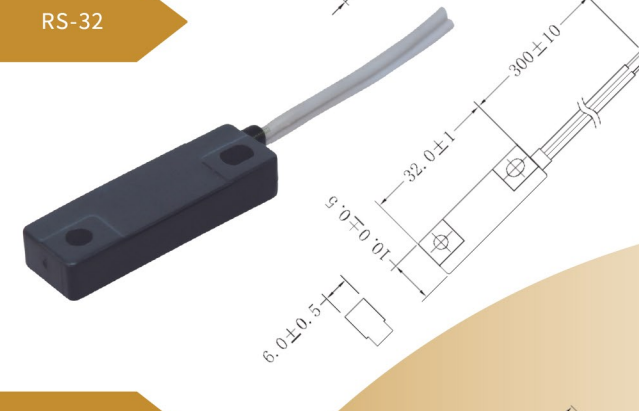
RS-6.5*34



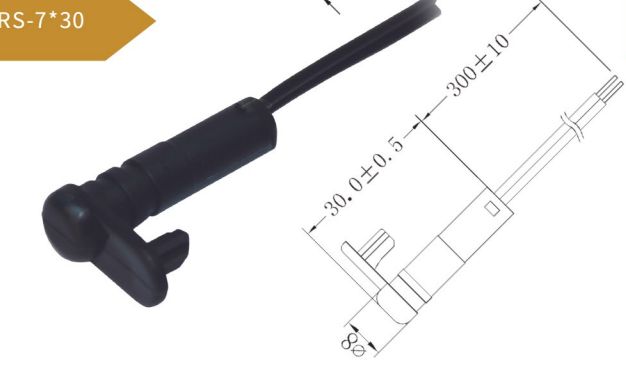
RS-5*30



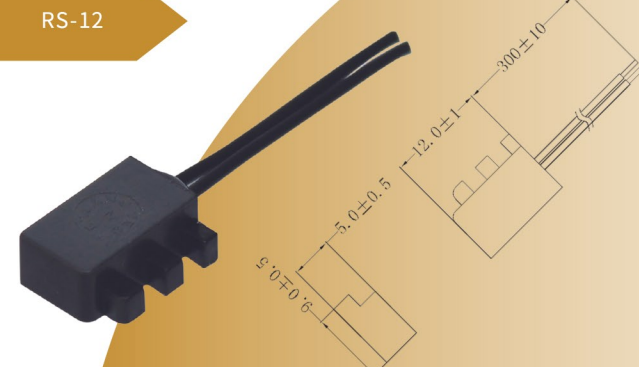
RS-32



RS-7*30



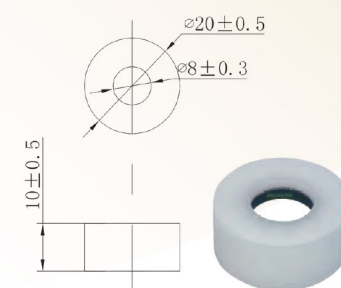
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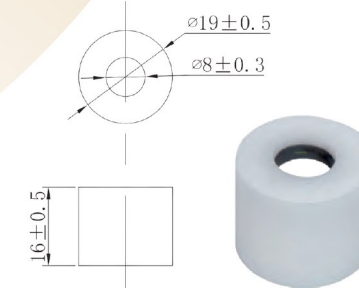
FLOAT BALL

As the main accessory of the proximity switch, the float has a magnetic material, which has different materials for different environments to choose from.

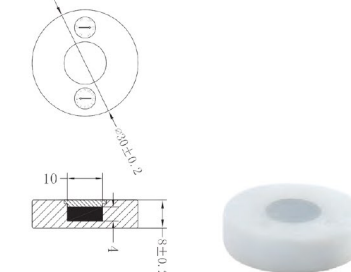
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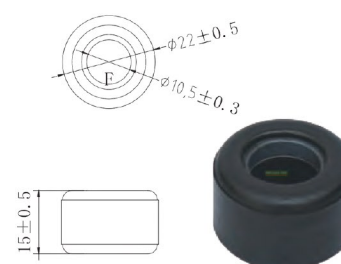
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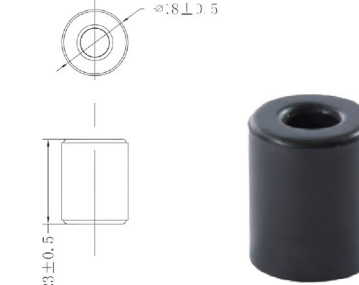
3008V



2215



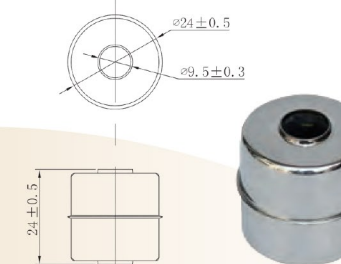
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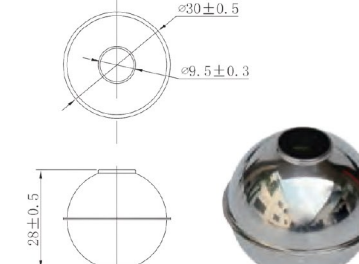
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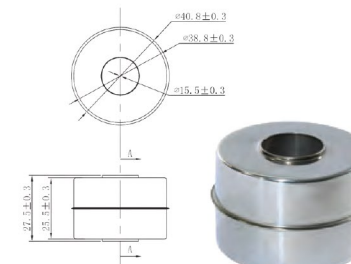
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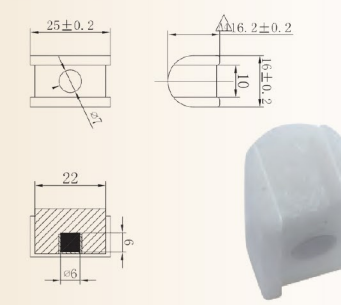
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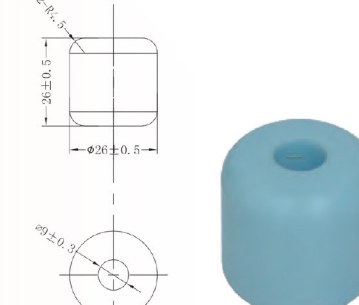
RS-32



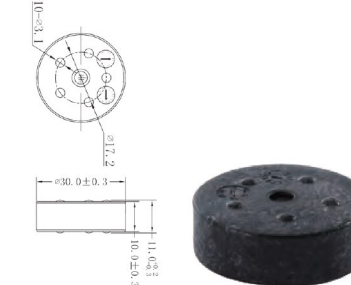
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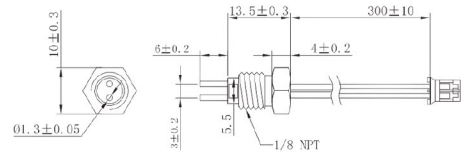
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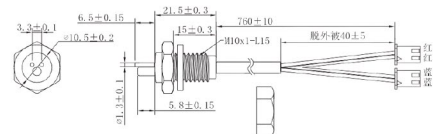
TDS PROBE

TDS data stands for the water dissolved impurity content. The higher of TDS data indicates the more impurities, otherwise, the less impurities. TDS sensor applies to water purifier. It detects the TDS data of the pure water. Easy to install, no leak and durable.

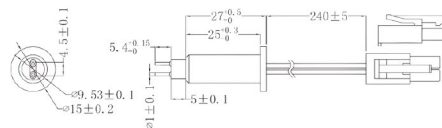
TDS-13



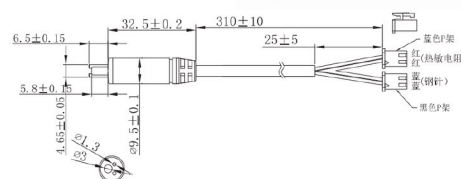
TDS-21



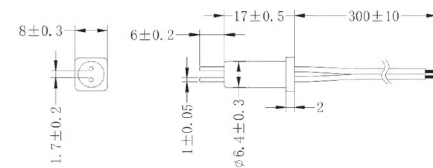
TDS-27



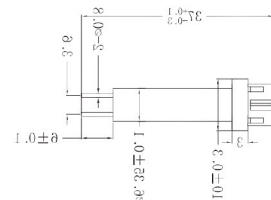
TDS-37



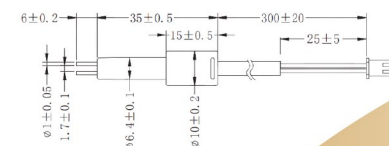
TDS-17



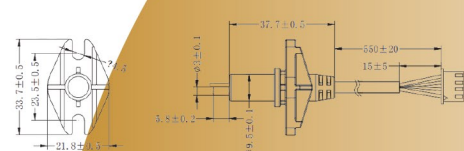
TDS-26



TDS-35

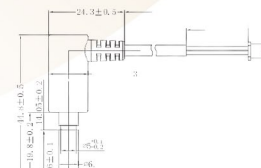


TDS-37-1

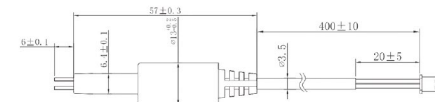


 TDS PROBE

TDS-44



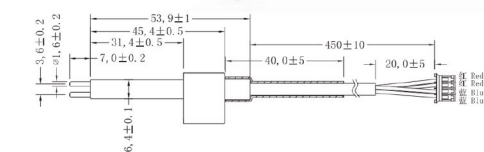
TDS-57



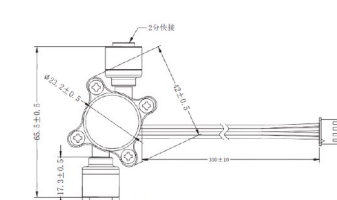
TDS-67-1



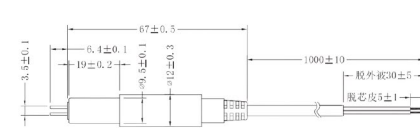
TDS-45



TDS-65



TDS-67-2



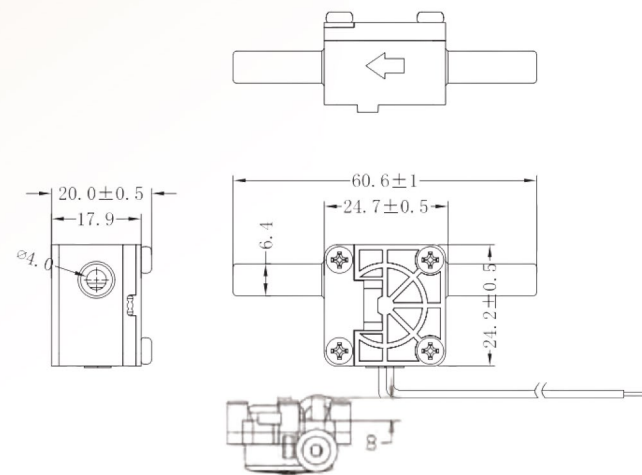
Tips:

The determination of TDS value consistency depends on the software algorithm to detect the surface area of the probe.

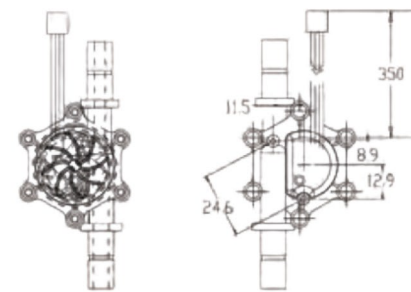
WATER FLOW METER

A flow meter makes use of Hall Effect (reed switch) to measure physical quantities of magnetic sensors. It consist of valve body, the flow rotor, steady flow element and hall sensor (reed switch). The flow meter is installed at the inlet side of water dispenser, coffee machine, water heater and so on. It is a device for detecting inlet flow and on-off.

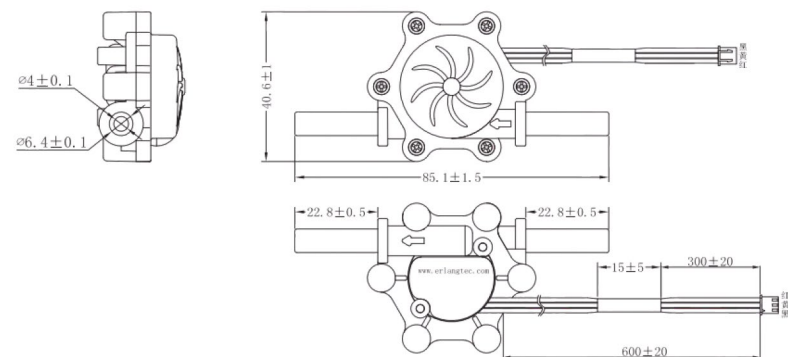
FM-01



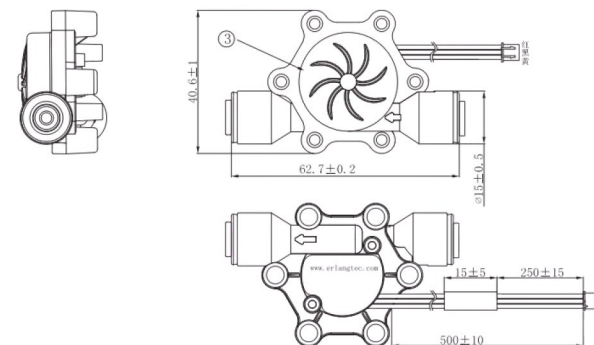
FM-02



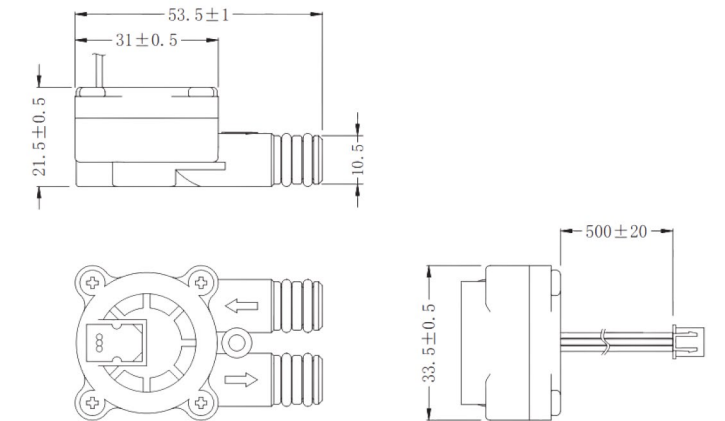
FM-03



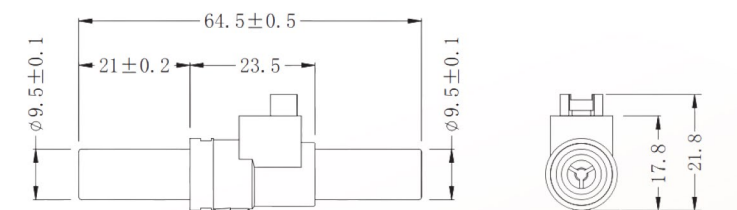
FM-04



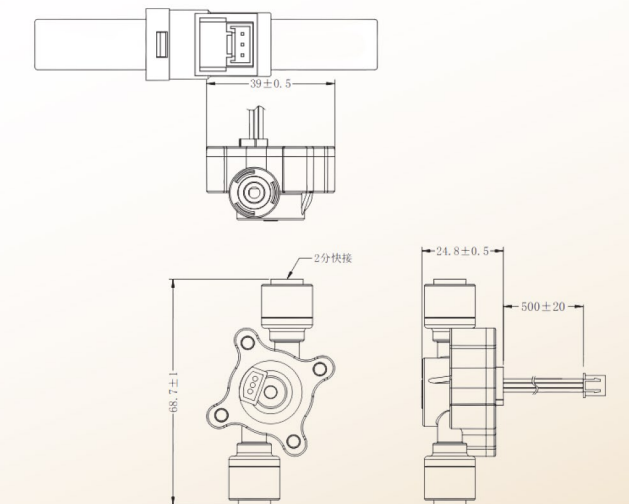
FM-08



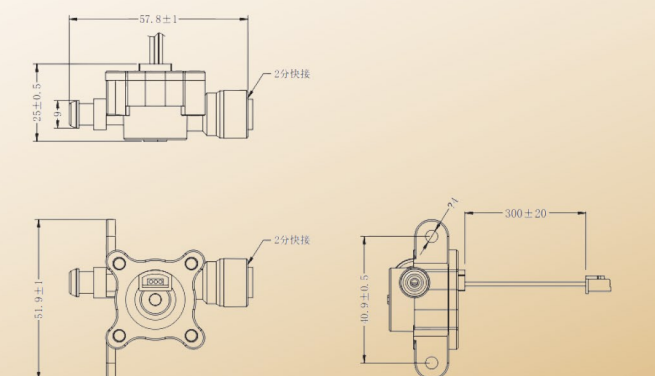
FM-09



FM-10



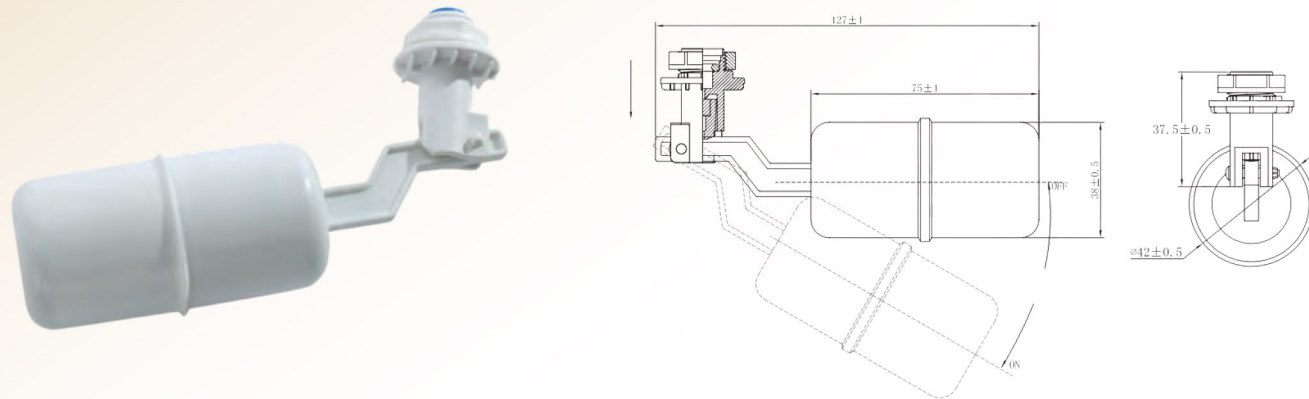
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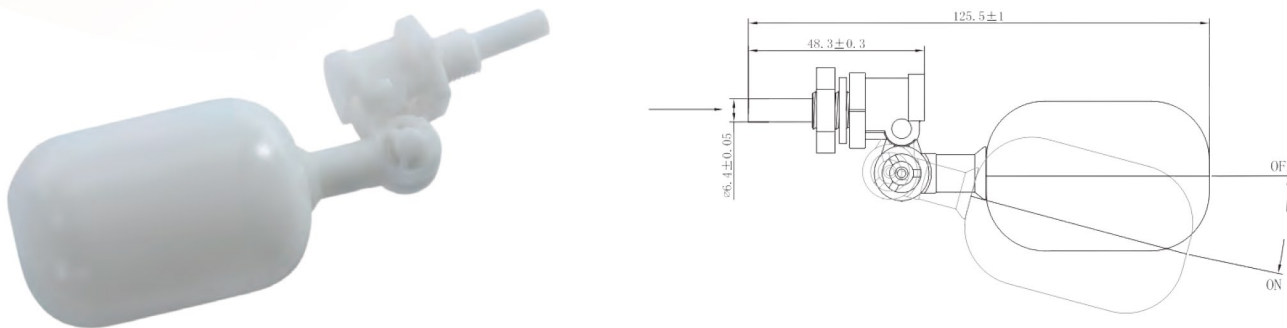
FLOAT VALVE

The float valve by the stem and other components, can be used to automatically control tower or pool level. With maintenance of simple, flexible and durable, accurate level control, water free from pressure and interference closing tightly watertight characteristics.

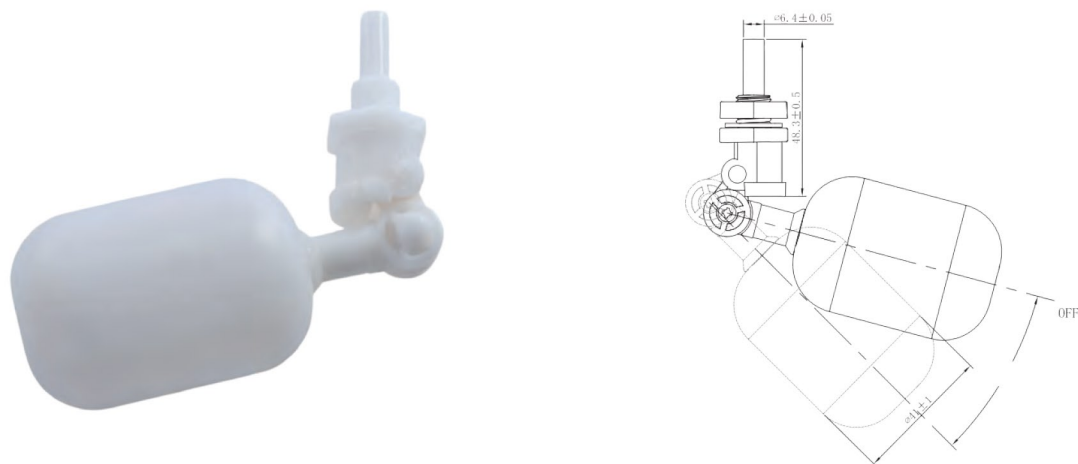
FQF-01



FQF-02



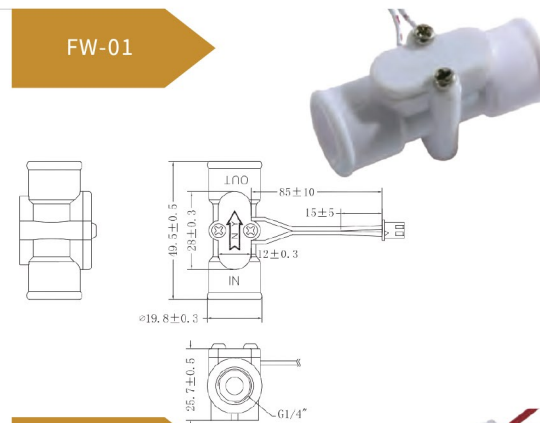
FQF-03



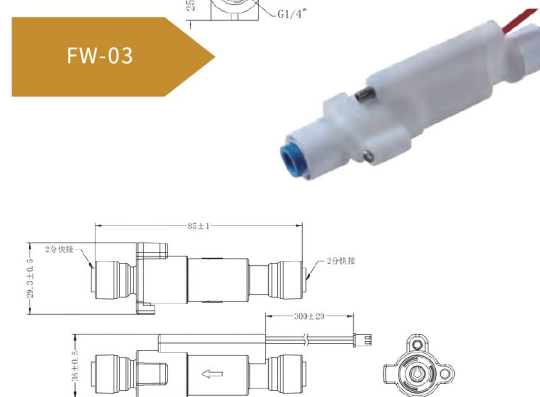
FLOW SWITCH

Flow switch is used for electricity water-heater, solar energy water- heater, air conditioner and other the system of waters circulating control, pass in and out the water control, water heat the control, water pump switch control, electromagnetism valve breaks the control or a water power failure, a water switch on electricity control etc...

FW-01



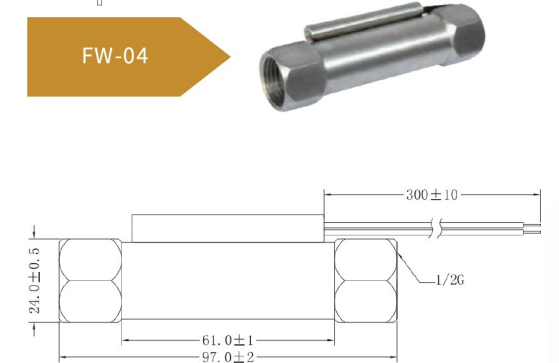
FW-03



FW-02



FW-04

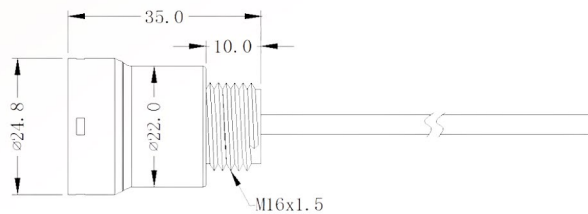


MAX. SWITCHING VOLTAGE	DC 100 V	START THE WATER PRESSURE	≤0.1 MPa
MAX. SWITCHING CURRENT	0.5 A	MIN. WATER PRESSURE	1.2 MPa
MAX. COLLAPSE VOLTAGE	DC 200V	MAXIMUM WATER PRESSURE	1.5 MPa
MAX. LOAD CURRENT	1.0 A	USE TEMPERATURE ENVIRONMENT	⁶ 1~120 °C
MAX. CONTACT RESISTANCE	100 mΩ	SERVICE LIFE	10 (DC 5 V 10mA)
START THE WATER FLOW	0.5L / min	RESPONSE TIME	(DC 5 V 10 mA)

LASER DISTANCE SENSOR

After aiming the laser at the target and emitting it, measure its round-trip time, and multiply it by the speed of light to get the round-trip distance. Because lasers have the advantages of high directionality, high monochromaticity and high power, these are very critical for measuring long distances, determining target orientation, improving the signal-to-noise ratio of the receiving system, and ensuring measurement accuracy, so laser rangefinders have received more and more attention.

GDCJ-001

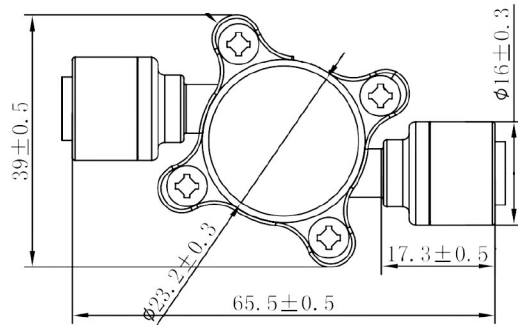
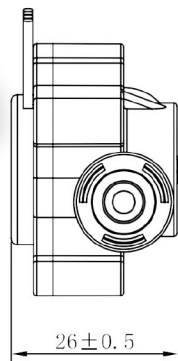


RATED VOLTAGE	3.3-5VDC
RATED CURRENT	<20MA
RESPONSE TIME	<1s
LAUNCH ANGLE	25°
MEASURE DISTANCE	10CM-200CM
MEASUREMENT ACCURACY	±2.5% (10cm-100cm) ; ±4.0% (100cm~200cm) The target reflective surface is a white plane, and other reflective surfaces need to be calibrated
OPERATING TEMPERATURE	-25°C~60°C
SAVE THE TEMPERATURE	-40°C~60°C
PROTECTION LEVEL	IP65

TDS MODULE

The TDS detection module indirectly reflects the TDS value by measuring the conductivity of water. Quick installation, no water leakage, long life.

TDS-65A



RATED VOLTAGE	DC 5 V
MEANS OF COMMUNICATION	UART
MEASURING RANGE	0-500ppm
TRAFFIC RANGE	0-3 L
MEASUREMENT ACCURACY	300ppm ± 15%
TEMPERATURE COMPENSATION	Compensate to the TDS value at 25°C
APPLICABLE MEDIA	Water (GB5749 compliant)
OPERATING TEMPERATURE RANGE	0-45°C (no freezing)
USE PRESSURE RANGE	0-0.8MPa
ELECTRICAL STRENGTH	500V AC/min/50Hz, no flashover and breakdown

OTHER PRODUCTS

We are keen on sensor research and development of home appliances, automobiles, medical and water-related finished products, and conduct research, verification, and specimens for foreign advanced technologies to meet the needs of domestic users.



TURBIDITY SENSING

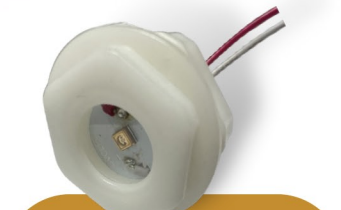
Mainly used in washing machine products, the algorithm is used to detect the turbidity in the water, and the feedback signal is carried out for action.

Sterilization module customized aluminum plate, fast heat dissipation; High-precision integration, high reliability; Safe and environmentally friendly, waterproof level up to IP68.



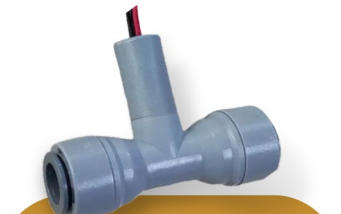
TEMPERATURE SENSING

Using imported thermistor, high precision, fast response, with non-embroidered steel shell conductivity is better.

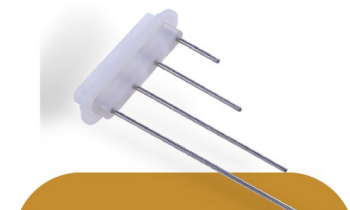


UV MODULE

The collection and analysis of the solution calculates the residual chlorine content of the measured ingredients.



RESIDUAL CHLORINE OCCURS



ELECTRODE PROBE

The electrode type liquid level switch uses the conductivity of the liquid (substance) body to measure the high and low liquid level, and can also be used for liquids and wet solids with weak conductivity.

Mainly used in ice machines, the use of infrared induction to sense the ice and feedback signals for action.



ICE FULL SENSING

PARTNERS

Our products cover small household appliances, water purifier products, HVAC, kitchen and bathroom products, medical products, energy vehicles, ships and yachts, tooling equipment, etc.

































SOME PARTNERS, IN NO PARTICULAR ORDER

LABORATORY CAPACITY

Our company attaches great importance to quality, we have purchased the corresponding equipment for testing and analysis, And have the ability to report to our factory in the research and development and improvement of products and make corresponding reports



SWAY TEST

NEEDLE FLAME TEST



WATER HAMMER
BLASTING

HOT AND COLD
SHOCK



VIBRATION TEST

CONSTANT
TEMPERATURE AND
HUMIDITY



SALT SPRAY TEST

DROP TEST

