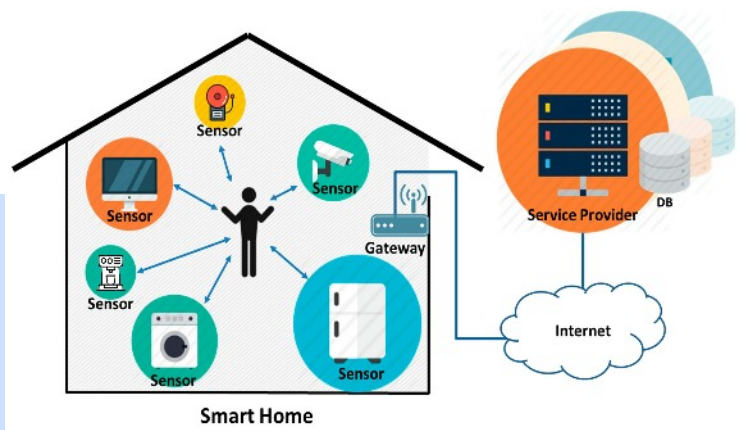




Your best partner
for embedded
sensor design

BITCLS4M

BITCLSxx series Capacitive Level Sensor



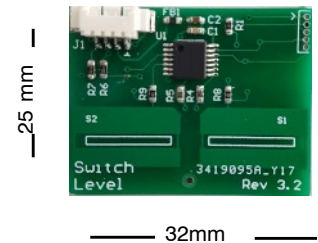
No-Calibration, Low cost, 3,3 V operating voltage, complete level sensor module ready for standalone application

Highly Integrated solution

The BITCLS4M monitors the presence of conductive liquid in plastic containers.

Through the analysis of an electric field, the sensor is able to detect whether inside the container on which the monitored fluid is applied it has exceeded the intervention threshold or not. Its technology allows it to analyze the level without moving parts or contact with the fluid

This level sensor module uses the embedded sensing capacitance to detect the change of liquid level; therefore, it must keep all metal articles or human body influencing the capacitance far away from the sensing area to avoid the disoperation.



Technical specifications

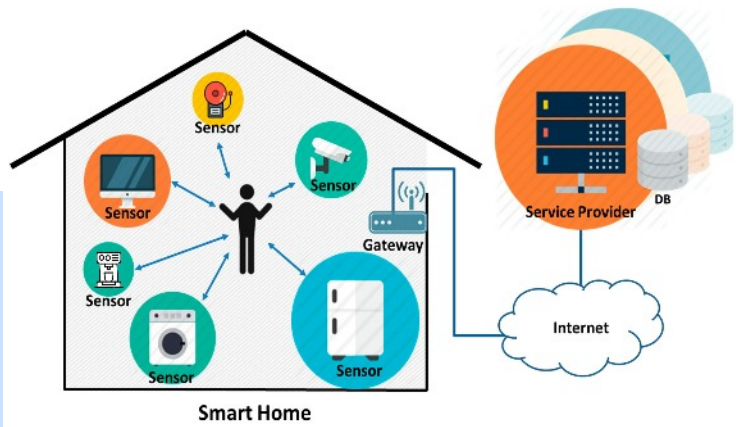
	Min	Typical	Max	unit
Supply Voltage range	3,2	3,3	3,4	Volt
Current Consumption	-	3	-	mA
Temperature	0		60	°C
TTL Output Signal	0 (No Fluid)		3,3 (Fluid)	Volt
Detection accuracy level	- 1		1	mm
Connection Type	Molex PicoBlade 53261-0471 Male Connector and the wire not included			



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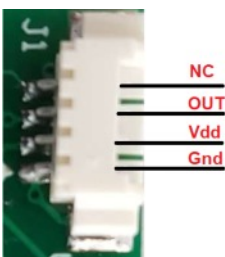
Main features

- High Sensitivity
- Very high immunity to disturbances.
- Very high immunity to electric fields
- Temperature compensated.
- No contact with the monitored fluid.
- Plug & Play, no calibration needed
- Very high precision and repeatability
- Dimensions: 32x25 mmt

Application

- Home Automation
- Home Appliances
- Automotive
- Industrial
- Other applications that need non contact liquid level detect on

Compatible materials of container wall	Plastic / Glass Material influences the sensitivity. Measurement through metal not possible!
Max. wall thickness	Dependent on the material of container
Compatible media	Dependent on specific constant ϵ_r of media/fluid. Higher = better Fluids, such as water / oils / fuels / alcohols/ ... Bulk materials



PIN-OUT		
1	NC	Do not connect (future application)
2	OUT	TTL OUTPUT
3	Vdd	Power Supply
4	Gnd	Ground