

New Product Information

W2GJ Touch Sensor



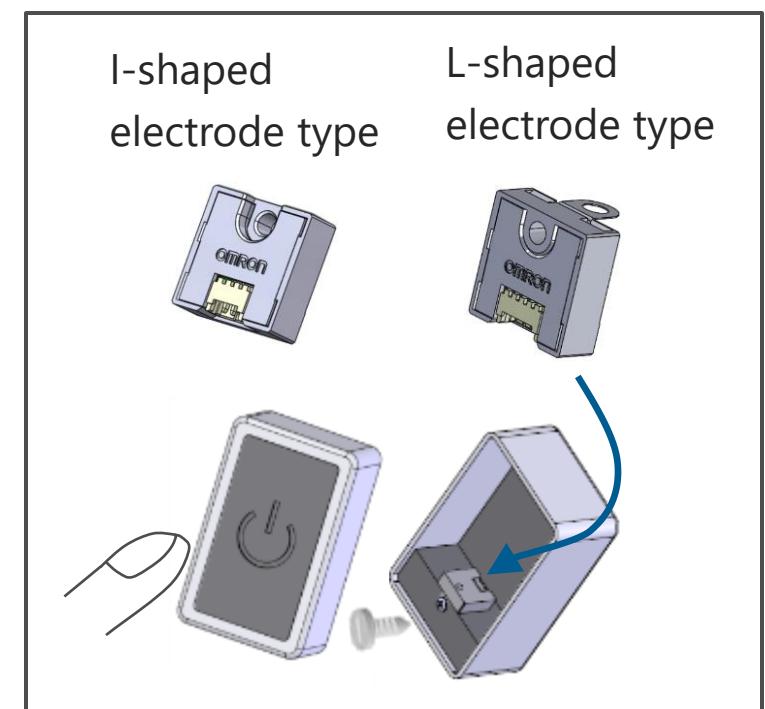
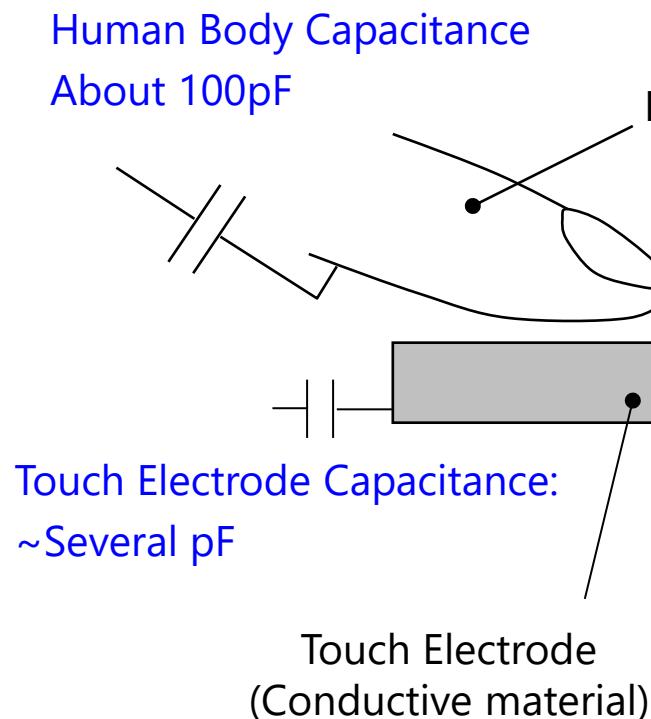
Ultra-compact touch sensor series designed for easy mounting and customizable configurations

What is Touch Sensor

This Product is Capacitance type Touch Sensor.

By touching Touch electrode, add about 100pF capacitance of human body to Touch Sensor.

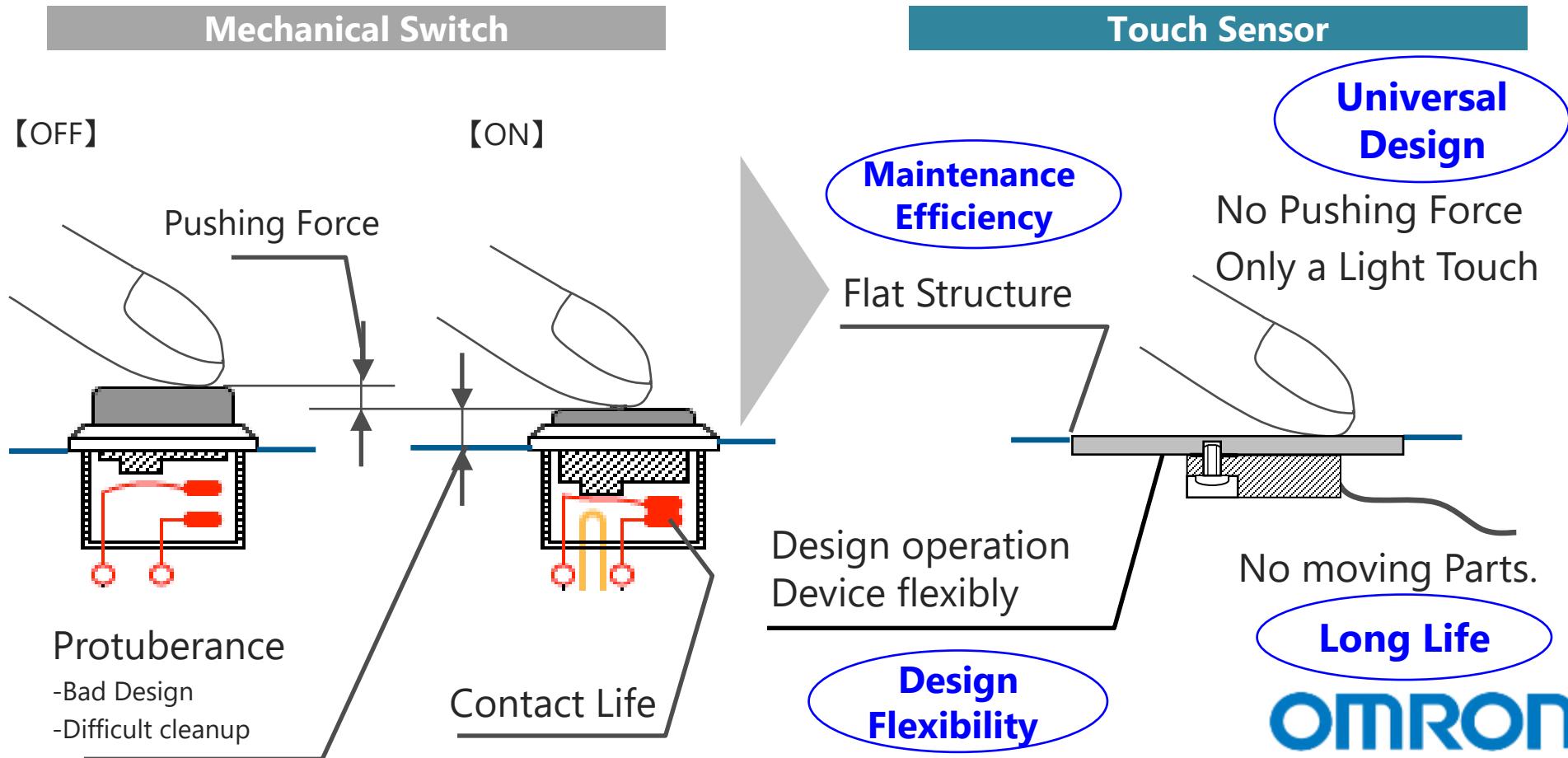
By detecting the change of capacitance, Touch Sensor detect human touch.



Benefit of Touch sensor vs Mechanical Switch

Comparing to Mechanical Switch,

- Long Life, because No Moving Part
- Good maintenance efficiency(easy cleanup) by flat structure
- Good Design Flexibility by customer Touch Electrode Design
- Contribute Universal Design, because no pushing force.



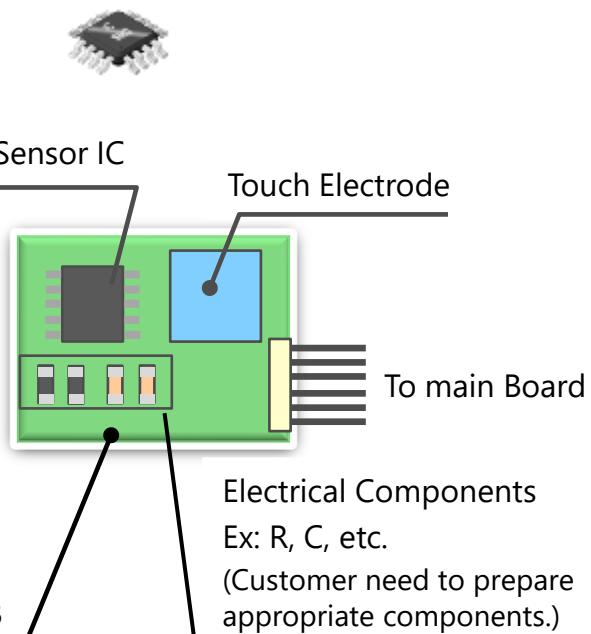
Product Features

**Touch Sensor IC already become popular,
But Touch Sensor IC is difficult to use & Design, require Design Man-hour to design.
Omron Touch sensor's benefit is "easy use".
Touch Sensor is widely used in Amusement Market,
But this type of Touch Sensor is NOT common in Other market
So, we can find good Business chance of "Easy Use Touch Sensor".**

Touch Sensor IC

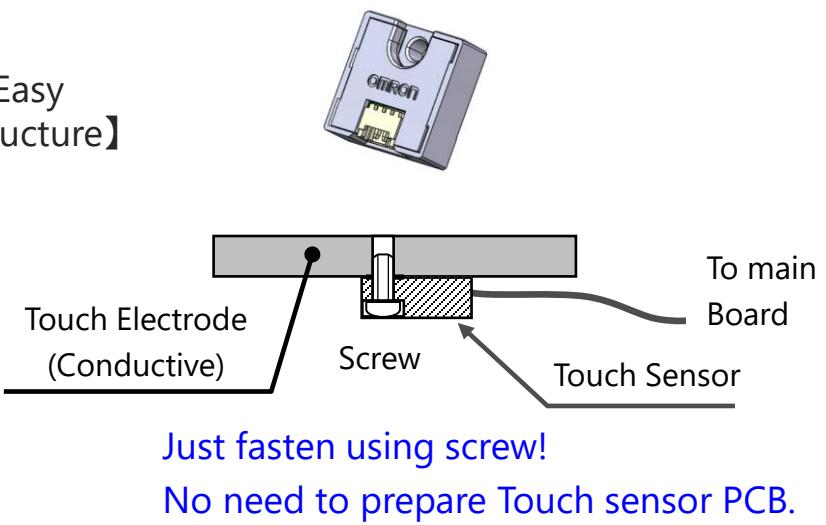
【Complex Structure】

- Customer need to
 - Design and Make PCB
 - Design Touch Sensor
 - Sensitivity
 - Prepare appropriate components



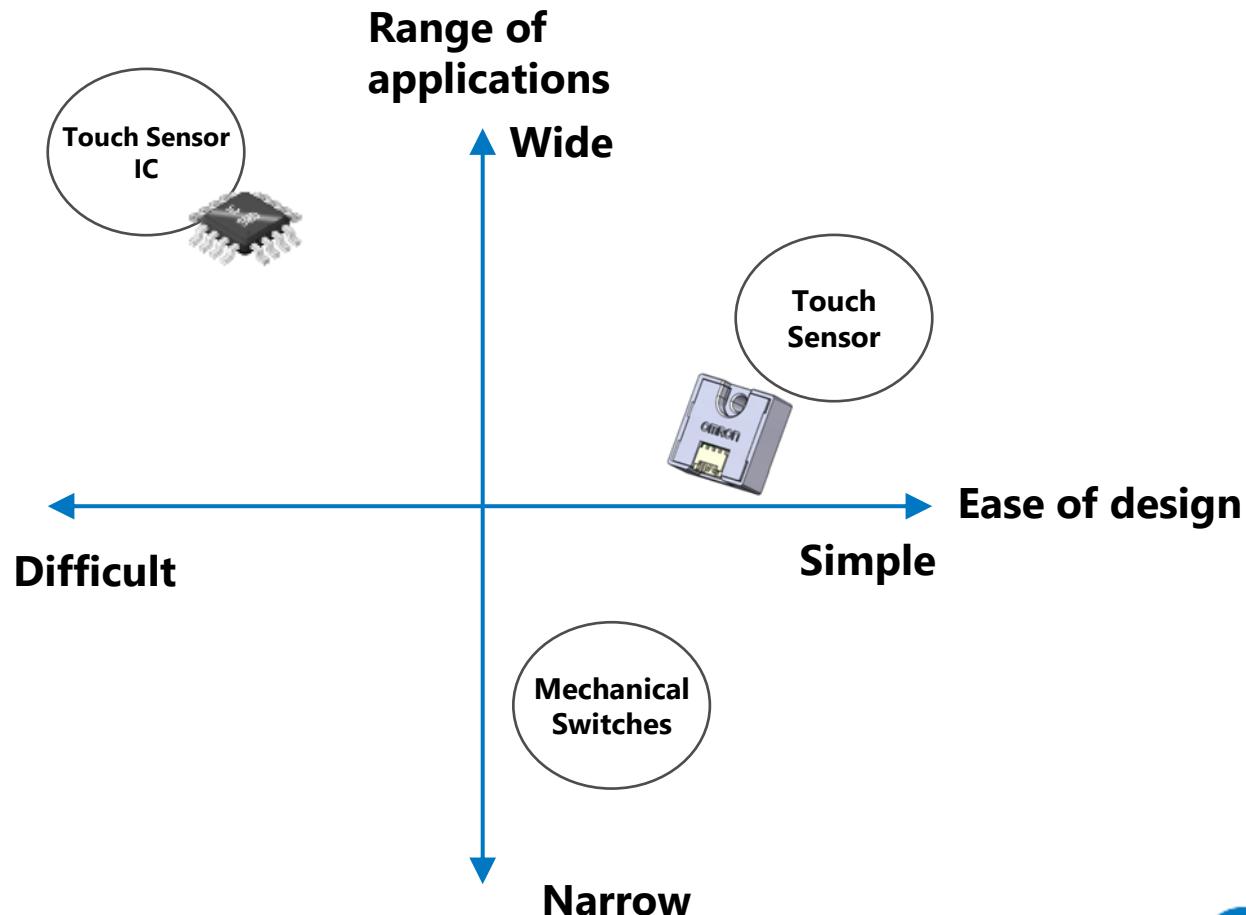
Touch Sensor

【Easy Structure】



Product Positioning

Touch sensor are easier to design than touch sensor IC, and have a wider range of Applications than mechanical switches.

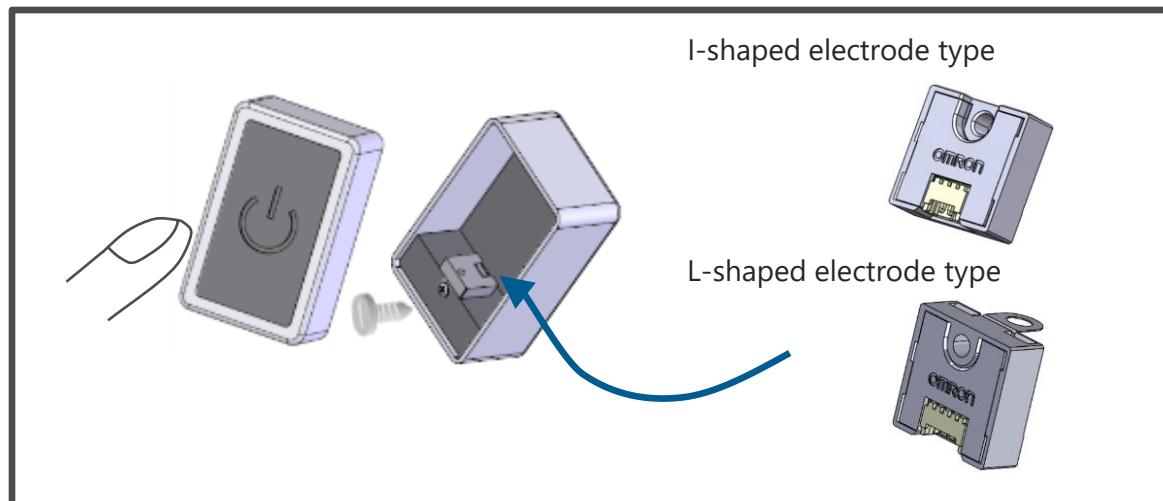


Product Specification & Lineup

Item	Specification	
Model	W2GJ-F5	W2GJ-L6
Detected Capacitance	35pF	
Power Supply Voltage	DC5V~15V	
Operation Mode	Open collector (max. output current: 10mA) When detecting capacitance (Human Touch Detected): Output transistor ON When not detecting capacitance (No Human Touch Detected): Output transistor OFF	
Current Consumption	10mA max.	
FG Terminal	Without	With
Electrode Shape	I-shaped	L-shaped
Appearance	 A black rectangular component with a central circular electrode. The text 'W2GJ-F5' and '1929' is printed on the top surface, and 'V GO' is printed on the bottom surface.	 A black rectangular component with a central rectangular electrode. The text 'W2GJ-L6' and '2443' is printed on the top surface, and 'V FG GO' is printed on the bottom surface.

New Product Feature and Value

- Operation is possible only by fixing the touch electrode and the touch sensor with screws.
- It eliminates the need for sensitivity adjustment and circuit design, making it easy for customers to develop.
- It detects that the human body has touched and operates.
- No Moving Part, Long life.
- Customers can freely design the operation unit to improve design and maintainability.
- There is no need to push, anyone can operate.



Thank You

