

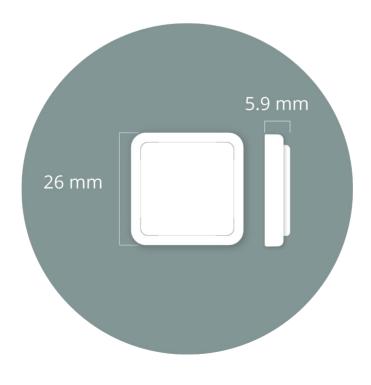
# Wireless Tactile Touch Sensor



The Wireless Tactile Touch Sensor detects when the sensor is pressed and gives an audible and tactile feedback to the user. A press will result in a wireless message being sent via SecureDataShot™ technology to the Cloud Connector (Gateway), notifying the user about the event. The Cloud Connector then relays the event notification onwards to a cloud server. The Wireless Tactile Touch Sensor transmits a message to the system every 15 minutes to notify that it is present and operational.

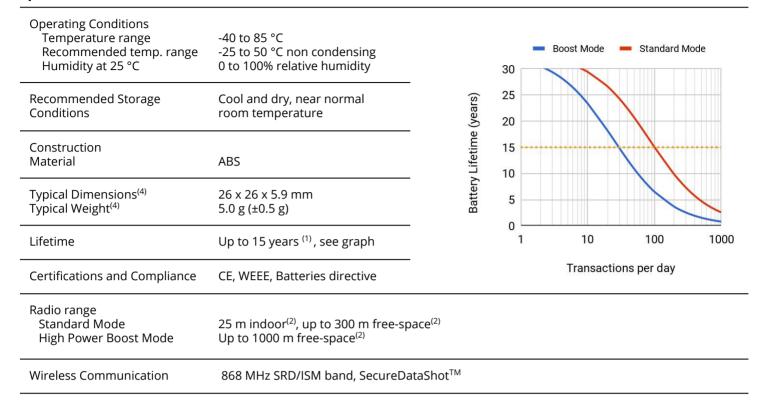
### **Features**

- Tactile feedback on touch
- Long lifetime, 15 years in default configuration and standard environment
- Wireless range 25 m typical indoor, similar to a WiFi network with an advanced WiFi router
- Wireless range line of sight up to 300 m in standard mode and up to 1000 m in high power Boost Mode





### **Specifications**



## Sensor performance parameters

The Wireless Tactile Touch Sensor performance is temperature dependent. The sensor battery will have reduced current drive capabilities at low temperatures resulting in increased recovery time and reduced range in Boost Mode. Self discharge of the battery will reduce the lifetime significantly at high temperatures.

Temperature dependency	-40 °C	-25 °C	25 °C	50 °C	85 °C
Sensor lifetime recommended temperature range <sup>(1)</sup>		5 y	15 y	7 y	
Sensor lifetime full temperature range <sup>(3)</sup>	1 w <sup>(3)</sup> / 3 y				4 mo
Typical communication recovery time (fresh battery)	1 min		0.5 s		
Typical communication recovery time (close to depleted battery)	10 min				

Water: The Sensor will not be damaged by water, but functionality will be affected. Long time exposure to water will result in water penetration and reduced sensor lifetime.

Magnetism, electric fields: The sensor shall not be exposed to strong magnetic fields. Magnets should not be used for mounting the sensor, as this will make the sensor unresponsive. Strong electric field fluctuations (e.g. fluorescent lamps and switching transformers) may trigger false touch events.

Environmental factors: The sensor is designed to handle heavy stress, but exposure to environmental factors such as strong sunlight, mechanical stress, solvents and extensive temperature variations will impact lifetime.

#### **Footnotes**

- (1): Assuming a radio transaction every 15 minutes, operating at room temperature in default configuration. Lifetime will vary based on operating environment and rate of transmissions.
- (2): Based on standard ITU-R P.1238 (indoor) and ITU-R P.525 (free-space). Lifetime in Boost Mode is shorter than in Standard Mode.
- (3): The sensor will become unresponsive and stop reporting if placed at very low temperatures for extended periods of time. The sensor will resume operation when temperature is increased
- (4): The backside tape is excluded

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