

Applicant : Chamberlain Group Inc.
Type of Equipment : DTS
Model No. : 041D7924
FCC ID : HBW1D7924

Fixed installation Bluetooth Low Energy Garage Door Sensor

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are **rounded to the nearest mW and mm** before calculation
- The result is **rounded to one decimal** place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

For small devices and for devices used close to the body the enclosure-to-person separation distance is used rather than the antenna-to-person separation distance.

For this device:

- $f = 2.44\text{GHz}$
- distance = 0 mm (so we will use 5 mm in the calculation)
- the maximum output power declared by the manufacturer is 2 mW

The calculated value = $\left[\frac{2.0}{5} \right] \cdot \sqrt{2.44} = 0.62$

This is below 3.0 and its excluded from any type of RF exposure evaluation