FCC ID:WP3MP862PG2

Exposure limit according to §15.247(i)

The PIR presence/security detector is classified as a mobile device.

The FCC limit for power density for general population/uncontrolled exposure is $f/1500 \text{ mW/cm}^2$ for 300 - 1500 MHz frequency range:

 $P = 912.75/1500 = 0.61 \text{ mW/cm}^2$

The power density **P (mW/cm²) = P_T / 4\pi r²**

P_T is the transmitted power, which is equal to the peak transmitter output power 13.99 dBm plus maximum antenna gain (-1) dBi, the maximum equivalent isotropically radiated power EIRP is

 $P_T = 13.99 \text{ dBm} + (-1) \text{ dBi} = 12.99 \text{ dBm} = 19.9 \text{ mW}.$ The power density at 20 cm (minimum safe distance, required for mobile devices), calculated as follows:

Compliance with FCC limit: 19.9 mW / 4π (20 cm)² = 0.004 mW/cm² << 0.61 mW/cm²

General public cannot be exposed to dangerous RF level.