Visonic Ltd. FCC ID:WP3MP840
IC:1467C-MP840

## Exposure limit according to §15.247(i) and RSS-102, Safety Code 6

The glass break detector is classified as a mobile device.

The FCC limit for power density for general population/uncontrolled exposure is 1 mW/cm² for 2.4 GHz. The RSS-102 limit for power density for general population/uncontrolled exposure in 300 – 6000 MHz frequency range is 0.02619 x f  $^{0.6834}$  W/m² = 0.02619 x 2412  $^{0.6834}$  W/m² = 0.536 mW/cm²

The power density  $P(mW/cm^2) = P_T / 4\pi r^2$ 

P<sub>T</sub> is the transmitted power, which is equal to the peak transmitter output power 16.28 dBm plus maximum antenna gain 3 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 16.28 \text{ dBm} + 3 \text{ dBi} = 19.28 \text{ dBm} = 85 \text{ mW}.$$

The power density at 20 cm (minimum safe distance, required for mobile devices), calculated as follows:

$$85 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.017 \text{ mW/cm}^2 << 1 \text{ mW/cm}^2$$
  
 $102 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.017 \text{ mW/cm}^2 << 0.536 \text{ mW/cm}^2$ 

General public cannot be exposed to dangerous RF level.