## Exposure limit according to §15.247(i)

FCC ID: F5323PGP9920

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

P<sub>T</sub> is the transmitted power, which is equal to the peak transmitter output power 13.7 dBm plus maximum antenna gain 5 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 13.7 \text{ dBm} + 5 \text{ dBi} = 18.7 \text{ dBm} = 74.13 \text{ mW}.$$

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

Compliance with FCC limit: 74.13 mW /  $4\pi$  (20 cm)  $^2$  = 0.015 mW/cm $^2$  << 0.61 mW/cm $^2$ 

General public cannot be exposed to dangerous RF level.