Exposure limit according to §15.247(i)

The magnet contact is classified as a mobile device.

The FCC limit for power density for general population/uncontrolled exposure is f/1500 mW/cm^2 for 300 – 1500 MHz frequency range:

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

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

P_T is the transmitted power, which is equal to the peak transmitter output power 14.27 dBm plus maximum antenna gain 2 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 14.6\ dBm + 2\ dBi = 16.6\ dBm = 45.7\ mW.$$

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

$$\text{Compliance with FCC limit: } 42.4\ mW / 4\pi\ (20\ cm)^2 = 0.009\ mW/cm^2 << 0.61\ mW/cm^2$$

General public cannot be exposed to dangerous RF level.