Exposure limit according to §15.247(i)

The Wireless outdoor magnetic contact MC-312 PG2 is classified as a mobile device.

The FCC limit for power density for general population/uncontrolled exposure is f/1500 mW/cm² 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_T is the transmitted power, which is equal to the peak transmitter output power 13.23 dBm plus maximum antenna gain 2 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 13.23 \text{ dBm} + 2 \text{ dBi} = 15.23 \text{ dBm} = 33.3 \text{ mW}.$$

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

Compliance with FCC limit: 33.3 mW / 4π (20 cm) 2 = 0.007 mW/cm 2 << 0.61 mW/cm 2

General public cannot be exposed to dangerous RF level.