

RF Exposure / SAR statement

Applicant: Philips Lighting Electronics N. A.

Model: LRA1720, OccuSwitch (Wireless Wall Switch)

Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the “OccuSwitch” as calculated from FCC OET Bulletin 65 Appendix A, Table (B) Limits for General Population / Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a $f/1500\text{mW/cm}^2$ (0.601mW/cm^2) uncontrolled exposure limit. The Friis formula used was:

$$S = \frac{P * G}{4 * \pi * r^2}$$

Where

P = 37.5mW (Maximum Peak Output Power)

G = 3.45 (Numerical Antenna Gain, 5.38dBi)

R = 20.0cm

For NTD the S = 0.0257mW/cm^2