

BOSCH

Bosch Security Systems 130 Perinton Parkway Fairport, New York 14450

Tel.

(585) 223-4060

(800) 289-0096

Fax

(585) 223-9180

www.boschsecurity.us

April 27, 2006

TUV America, Inc. FCB 10040 Mesa Rim Road San Diego, CA 92121 USA

Dear Sir or Madam:

The following is the SAR calculation for the Bosch ISC-PDL1-W18G Motion Detector using the system's maximum RF emission. The calculation is based on FCC 47CFR Part 2 and OET 65.

Per OET 65:

Maximum Permissible Exposure is Freq. (MHz)/1500 = $MOE \text{ mW/cm}^2$ 10525 MHz/1500 = $7.0166666667 \text{ mW/cm}^2$

The following equation determines the distance from the antenna that power density is = 7.016666667 mW/cm².

Radius (cm) = SQRT ((antenna gain x output power in mW) / (4 x ? x (frequency in MHz / 1500))

Transmitter Power (Max) = 5 maw
Device Antenna Gain = 7 dB
Device Antenna Gain (Linear) = 5.011872336
Device Frequency = 10525 MHz
MPE (mW/cm²) = 10525

Radius (CM) = SQRT (5 maw x 5) / (4 x ? x (10525/1500)) = 0.5331073 cm or .00533 m

The ISC-PDL1-W18G is a permanently installed product meant to go in a fixed location on consumer's walls at height of between 7 to 10 foot levels. When properly installed, this unit should pose no dangers from the product's RF emissions. Copies of this letter will be provided at consumer's request.

Sincerely, Jan Caroll

Jon C. Wolski

Regulatory Compliance Coordinator Ph: 585-223-4069 Fax: 585-421-4263 Email: jon.wolski@us.bosch.com