

Task 2.14

October 23, 2001

Draft Performance Specification – Occupancy Sensors

Performance Requirements

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| Coverage Area: | Minimum of 400 ft ² |
| Field of view: | Ceiling - Horizontal: 360; Vertical: up to 180 Wall – Horizontal: up to 180; Vertical: up to 90 |
| Extraneous Signal Sensitivity: | Shall not be sensitive to: Radio signals Electromagnetic interference Electrostatic discharge Sudden changes in temperature and humidity Noise or vibrations Natural or forced air movement Movement of inanimate objects Occupancy or motion beyond the boundaries of the office |
| Failure Mode: | Manual on/off remains operable |
| Maintained Detection: | Regardless of occupancy orientation to the sensor, location in the room, or speed of performing a motion, products shall detect: 1) small body motion (e.g., writing, typing, reading); 2) medium arm motion (e.g., reaching for telephone); 3) large body motion (e.g., walking) |
| Products Shall: | Have silent operation Unobtrusive status indicator |
| Operating Temperature Range: | 0 to 35 C |
| Operating Humidity Range: | 45 to 85% |
| Time Delay: | Adjustable Demarcations clearly labeled Calibrated and accurate within $\pm 10\%$ of the set value Minimum: 15 seconds Maximum: 30 minutes No user access to adjustment |
| Installation & Commissioning: | < 30 minutes |
| Power Requirements: | > 1 watt |