1 General

1.1 RELATED SECTIONS

.1 Section 26 05 00 - Common Work Results - Electrical.

1.2 SUBMITTALS

.1 Submit shop drawings and product data in accordance with Division 01 - General Requirements.

1.3 SYSTEM DESCRIPTION

.1 Occupancy sensors to turn lighting on when entering a controlled area and off after the area is vacated.

.2 Products sourced from a single manufacturer.

2 Products

2.1 TECHNOLOGY

.1 Passive infrared (PIR) sensing systems are passive and react only to energy sources. They detect the difference between heat emitted by the human body and the background space.

.2 Ultrasonic sensors (US) detect volumetric motion using the Doppler Principle to sense movement.

.3 Dual technology (DT) sensors use both PIR and US technologies.

2.2 PASSIVE INFRARED AUTOMATIC WALL SWITCH

.1 Advanced PIR technology wall switch to provide automatic control of lighting.

.2 Programmable for either Manual-ON or Automatic-ON.

.3 Digital time delay of 15 seconds to 30 minutes.

.4 LED to indicate occupancy detection.

.5 Adjustable unit sensitivity.

.6 No minimum load requirement.

.7 Compatible with all load types.

.8 Five-year warranty.

.9 Load: up to 800 W @ 120 V.

.10 Minimum coverage: 180 deg. - 290 sq.ft.

.11 Finish: White.

3 Execution

3.1 INSTALLATION

.1 Obtain complete installation instructions from manufacturer prior to rough-in.

.2 Review sensor locations on site prior to rough-in and install in location within room that provides maximum sensor coverage but confines coverage to the room. Motion outside the room is not to activate lighting within the room.

.3 Locate occupancy sensors on vibration-free surfaces at least 1.8 m away from air vents.

.4 Wire sensors into circuits as indicated to control luminaires in the indicated areas of coverage.

.5 Program sensors and timers with time delay off set to 15 minutes.

.6 Occupancy sensors are to be individually adjusted in accordance with the manufacturer's recommendations for the specific room in which they are installed, taking into account room shape, size and usage.

.7 Test for acceptable operation.

.8 Demonstrate operation to the satisfaction of the Departmental Representative.

3.2 COMMISSIONING

.1 The system must be completely commissioned prior to interim inspection to verify optimum operation.

.2 Sensors must be added or relocated and patterns adjusted as required to eliminate nuisance turning on/off of luminaires.

END OF SECTION