INFRALITE SPECIFICATIONS

MS1100 SERIES PIR DETECTORS

equipment description

Passive Infrared Movement Detectors

Provide passive infrared movement detectors for control of lighting as shown on the Tender Drawings.

Operation:

Passive infrared movement detectors shall provide automatic ON / automatic OFF operation as follows:

- While the controlled load is ON, the detector shall monitor the movement of persons within its designated area.
- While movement is occurring, the controlled load shall remain ON.
- If no movement is detected for a certain Off delay time, the controlled load shall automatically switch OFF. The Off delay time shall be fixed at 20 minutes.
- Photocells shall be designed to hold lights OFF if the daylight contribution is high when areas become occupied; and to switch lights ON as the daylight contribution falls in occupied areas. Photocells shall not switch lights OFF in areas that are occupied.

Features:

Movement detector will have the following features:

- OFF delay timer fixed at 20 minutes with walk-test mode available with a 5 second Off delay to facilitate testing and commissioning. Walk-test mode is selected using infrared remote control unit. After 5 minutes, or an interruption in the mains power supply, the OFF delay automatically resets to 20 minutes.
- PIR range 360 degrees with sensing radius 1.2 x mounting height. Maximum mounting height shall be 3 metres;
- Fixed ON and OFF sensitivity control;
- Movement detectors to have adjustable integral photo-electric cell. The photocell shall not turn controlled load ON if sufficient natural light is present. Photocell range shall be 50 to 5000 lux. Photocells shall be calibrated using an infrared remote control unit.

Rating:

Movement detectors shall be rated at 240V 50Hz 6A. Detectors shall be capable of switching inductive loads such as fluorescent luminaires. Where a Movement Detector is required to control a connected load exceeding 6 Amps; or where the connected load has more than one (1) lighting circuit, the Movement Detector shall control the connected load via a suitably rated N/O Contactor located in an associated PVC Enclosure.

Mounting:

Flush mount movement detectors on ceiling tiles central to the controlled space.

Equipment type:

Passive Infrared Movement detectors shall be supplied by Energy Conservation Systems Pty Ltd, type MS1100PF.

on-site commissioning

ON-SITE TESTING AND COMMISSIONING OF LIGHTING SYSTEM

The Lighting Control System equipment supplier shall assist the Electrical Services Contractor in the on-site positioning, set-up, testing and commissioning of the new Movement Detectors now specified.

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ULTRALITE SPECIFICATIONS

MS1500 SERIES PRESENCE DETECTORS

equipment description

Ultrasonic Movement Detectors

Provide movement detectors for control of lighting as shown on the Tender Drawings.

Operation

The movement detectors shall provide automatic ON / automatic OFF operation as follows:

- While the controlled load is ON, the detector shall monitor the movement of persons within its designated area.
- While movement is occurring, the controlled load shall remain ON.
- If no movement is detected for a certain period of time, the controlled load shall be switched OFF. That period of time shall be adjustable between 5 and 15 minutes in 5 minute steps. A 10 second delay is available to facilitate testing and commissioning.
- Movement Detector shall have adjustable integral photocell. Photocell operation shall hold lights OFF when the area becomes occupied if sufficient natural light is present; and to switch lights ON in occupied areas when the daylight contribution falls.
It shall not switch lights OFF in an occupied area.

Features

Provide movement detector with the following features:

- Adjustable timer with a range of up to 15 minutes in 5 minute steps;
- Sensing range suitable for sensing sedate movement typical of a person seated at a desk in excess of 5 metre radius from the detector head;
- Adjustable ON and OFF sensitivity;
- Ultrasonic movement detection technology utilising 'Doppler shift' to sense sedentary movement, P.I.R. type detectors are not acceptable;
- Movement detectors to have integral photo-electric cell. The photo-cell shall not turn controlled load ON if sufficient natural light is present.

Rating

Provide movement detectors rated at 240V, 8A 120µF which are capable of switching inductive loads such as fluorescent luminaires. Where a Movement Detector is required to control a connected load exceeding 8 Amps 120 µF; or where the connected load has more than one (1) lighting circuit, the Movement Detector shall control the connected load via a suitably rated N/O contactor and associated PVC Enclosure.

Mounting

Surface mount movement detectors on ceiling tiles at locations detailed on the Tender Drawings.

Equipment type

Movement detectors shall be supplied by Energy Conservation Systems Pty Ltd, type MS1500SP.

on-site commissioning

ON-SITE TESTING AND COMMISSIONING OF LIGHTING SYSTEM

The Lighting Control System equipment supplier shall assist the Electrical Services Contractor in the on-site positioning, set-up, testing and commissioning of the new movement detectors now specified.

LONGRANGE DETECTORS SPECIFICATIONS

MICROWAVE PRESENCE DETCECTORS

equipment description

Long Range, Microwave Presence Detectors

LRD / LR & ASSOCIATED LRC1L SINGLE CHANNEL CONTROLLER

Provide presence detectors for the control of lighting as shown on the drawings.

Operation

The presence detector shall provide automatic ON / automatic OFF operation as follows:

- While the controlled load is ON, the detector shall monitor the movement of persons within its designated area.
- While movement is occurring, the controlled load shall remain ON.
- If no movement is detected for a certain period of time, the controlled load shall be switched OFF. That period of time shall be adjustable between 0 and 16 minutes via a potentiometer located at the single channel controller unit.
  Presence detector initial switch OFF time setting shall be 16 minutes.

Features

Provide presence detectors with the following features:

- Adjustable timer with a range of up to 16 minutes, continuously variable;
- Sensing range suitable for sensing sedate movement
- Range control adjustability;
- Microwave movement detection technology utilising 'Doppler shift' to sense movement;
- Automatic or Semi-Automatic Operation
- Single or Dual Output Relays
- Optional Remote Photocell
- Adjustable Power up on or Power up off operation.

Rating

Provide presence detectors rated at 240 V, 10A Resistive, 240V, 8A 120uF minimum which are capable of switching inductive loads such as fluorescent luminaires etc; as detailed on the drawings. If the controlled load is greater than 8A 120uF; or if there is more than one (1) circuit to be controlled; or if input power supply to dimmer racks is required to be controlled etc; provide a separate 4 pole N/O contactor and associated enclosure, with the coil of the contactor controlled via volt free contacts (terminals 4 and 5) associated with the presence detector single channel controller unit. Provide 240 Volt 1.5 mm^2 double insulated supply to terminal 5 of the single channel controller unit and extend this active cable to the contactor coil via terminal 4 of the single channel controller unit. Provide separate 240 Volt 1.5 mm^2 double insulated neutral cable to contactor coil.

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equipment description

Mounting:

Each presence detector shall be ceiling surface mounted in the position detailed on the drawings. The presence detector associated Single Channel Controller unit shall be located in the false ceiling space immediately adjacent the presence detector and interconnected via screened cabling provided as part of the presence detector unit.

Note: This Model detector can see through glass, and as such should be positioned in a way to avoid unwanted triggering

Equipment Type:

Presence detectors and single channel controller units shall be supplied by Energy Conservation Systems Pty Ltd, Melbourne, type LRD30F / LR30F and type LRC1L respectively.

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MICROLITE **SPECIFICATIONS**

MICROWAVE PRESENCE DETCECTORS

equipment description

Microwave Presence Detectors

Provide movement detectors for control of lighting as shown on the Tender Drawings.

Operation

The movement detectors shall provide automatic ON / automatic OFF operation as follows:

- While the controlled load is ON, the detector shall monitor the movement of persons within its designated area.
- While movement is occurring, the controlled load shall remain ON.
- If no movement is detected for a certain Off delay time, the controlled load shall automatically switch OFF. That period of time shall be adjustable between 10 seconds and 20 minutes.
- Movement Detector shall have adjustable integral photocell. Photocell operation shall hold lights OFF when the area becomes occupied if sufficient natural light is present; and to switch lights ON in occupied areas when the daylight contribution falls.
  It shall not switch lights OFF in an occupied area.

Features

Movement detector will have the following features:

- Adjustable timer with a range between 10 seconds and 20 minutes;
- Sensing range suitable for sensing sedate movement typical of a person seated at a desk in excess of 10 metre radius from the detector head;
- Adjustable ON and OFF sensitivity;
- Microwave movement detection technology utilising 'Doppler shift' to sense sedentary movement. P.I.R. type detectors are not acceptable;
- Movement detectors to have adjustable integral photo-electric cell. The photo-cell shall not turn controlled load ON if sufficient natural light is present.

Rating

Provide movement detectors rated at 240V, 8A 120μF which are capable of switching inductive loads such as fluorescent luminaires. Where a Movement Detector is required to control a connected load exceeding 8 Amps 120 μF; or where the connected load has more than one (1) lighting circuit, the Movement Detector shall control the connected load via a suitably rated N/O contactor and associated PVC Enclosure.

Mounting

Mount the detector on a ceiling tile in the corner of the room, at a location to be determined on site.

Equipment type

Movement detectors shall be supplied by Energy Conservation Systems Pty Ltd, type MR1500P.

on-site commissioning

ON-SITE TESTING AND COMMISSIONING OF LIGHTING SYSTEM

The Lighting Control System equipment supplier shall assist the Electrical Services Contractor in the on-site positioning, set-up, testing and commissioning of the new movement detectors now specified.