

Building Mount Controls

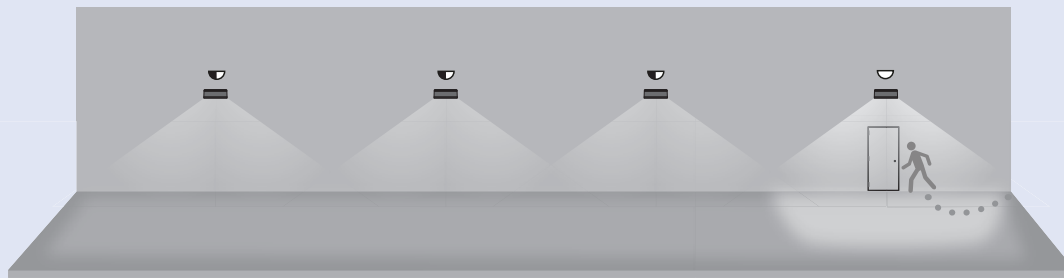
Passive Infrared Motion Sensors

Lighting controls for building mount applications can provide significant energy savings by lowering light levels or only lighting the application area where and when it's needed. Similar to pedestrian walkway applications, design considerations for building mount applications include proper light level requirements for safety due to higher volume of activity and architectural lighting requirements.

CONTROLS FEATURES AND BENEFITS

LED wallpack luminaires with motion sensor option can be configured to illuminate from low to high power or off to on when motion is detected. Luminaire will return to off or low when motion is no longer detected.

- Digital Passive Infrared (PIR) sensor with dual element pyrometer and spherical fresnel lens for detection of major human motion/activity; The pyro detects the difference in the IR energy radiated from the background versus the moving object. The lens divides the coverage area into multiple zones. Detection is dependent on movement between zones (see coverage pattern below). Objects in path of sensor line of sight can limit coverage.
- High/low or on/off capability available
- User programmable low settings of 0 - 9.8 volt (approximately 10%-100% light output); Factory default is 1 volt (approximately 10% light output)
- 180° sensor range (wall mount)
- 20 ft. maximum mounting height with 1:1 sensor range
- Operating temperature: -22 to 104°F (-30°C to 40°C)
- Sensor test mode for convenient setup
- Time delay is field adjustable; User programmable settings of 30 seconds, 1-30 minutes; Factory default setting is 5 minutes, followed by full shut off after 1 hour (full shut off programmable from 1 minute to 5 hrs or disable feature)
- All units equipped with daylight harvesting which can be user disabled; Factory default setting is 4 FC; Ambient light range is user selectable from 1-250 FC, Daylight harvesting feature has precedence over motion control turning fixture completely on or off
- High and low dimmed light levels are fully adjustable via handheld wireless configuration tool: SCP REMOTE (order at least on per project and control)
- Sensor conforms to UL Standard 508, UL Standard 244A & IP65
- Conforms to California Title 24/ASRAE 90.1/CBEA



Wallpack Luminaires with passive infrared sensor control

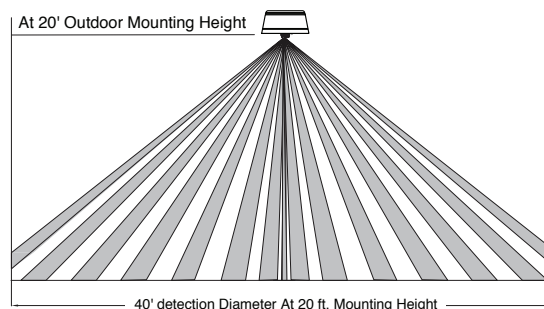
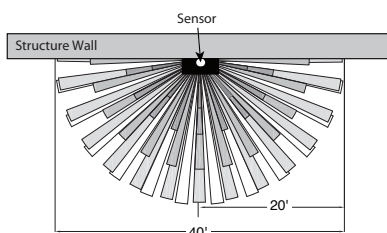
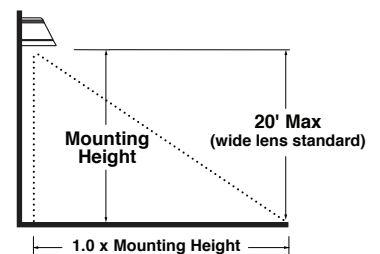
Low light output High 100% output

EXAMPLES & DESIGN CONSIDERATIONS

- Start up delay from initial motion detection to fixture illumination is approximately 1-2 seconds
- Detection is dependent upon the following: rate of speed, mounting height of luminaire and ambient temperature (see coverage pattern below). Detection of rapidly moving objects such as bicycles, motorized vehicles, etc. is possible however less reliable than human movement at normal walking speeds.

A luminaire installed at a 20 ft mounting height results in a 20 ft detection radius. A bicycle moving 10 mph travels a distance of 15 ft per second. As a result, illumination would occur when the object is under or past the luminaire.

A luminaire installed at a 20 ft mounting height results in a 20 ft detection radius. A pedestrian moving 3 mph travels a distance of 4.5 ft per second. As a result, illumination would occur when the pedestrian is 11'-15' from the luminaire.



SPALDING
LIGHTING

HUBBELL Outdoor Lighting