

Area/Site Controls

Passive Infrared Motion Sensors

The implementation of controls in a parking lot offers many benefits such as energy savings, extending the life of the LED lamps and compliance with energy codes. By utilizing the latest in energy-saving LED technology and controls from Hubbell Lighting, building owners can reduce overall operating costs.

CONTROLS FEATURES AND BENEFITS

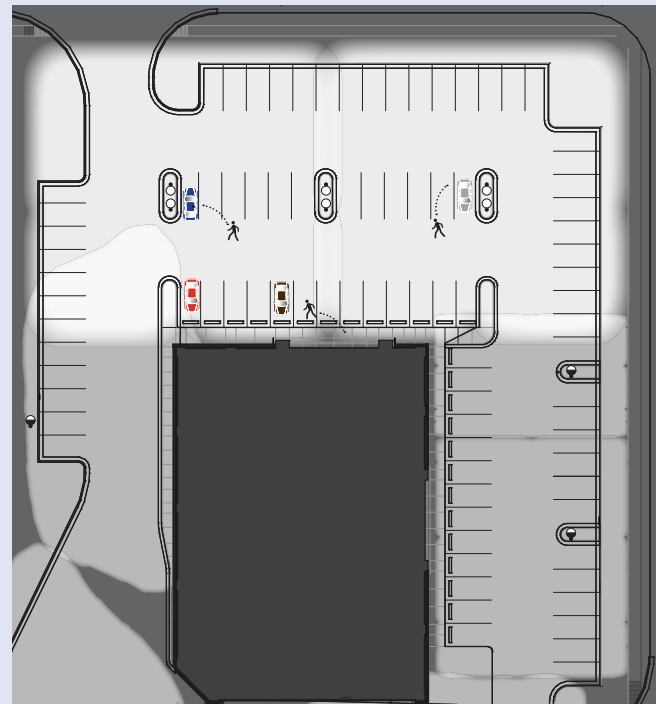
LED luminaires with motion sensor option can be configured to illuminate from low to high power or off to on when motion is detected. Luminaire will return to off or low when motion is no longer detected.

- 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)
- 360° sensor range (less pole shadow)
- Maximum mounting height is 40 ft.
- 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 enabled. Factory default setting is 4 fc; Ambient light range is user selectable from 1-250 FC; Daylight harvesting feature has precedence over motion detection 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

EXAMPLES & DESIGN CONSIDERATIONS

- Start up delay from initial motion detection to fixture illumination is approximately 1-2 seconds.
Note: Extreme heat or cold temperatures may limit detection.
- Vehicle detection is possible however less reliable than human detection; Vehicle detection is dependent upon the following: rate of speed, mounting height of luminaire and vehicle temperature.

Luminaires installed at a 40 ft mounting height results in a 50 ft detection radius (100 ft. diameter). A vehicle moving 10 mph travels a distance of 15 ft per second. As a result illumination would occur when the vehicle is approximately 20'-25' from the luminaire.



Luminaires with passive infrared sensor control

- High 100% light output
- Low light output

