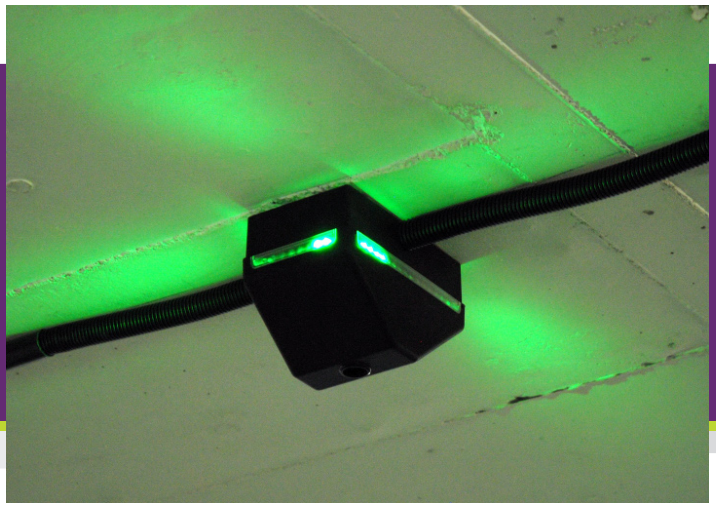
Ultrasonic LED Sensors



Ultrasonic sensors are an integral part of Intelligent Parking Guidance. These sensors are ideal for facilities with an overhead roof, for example a parking garage. They combine high detection reliability and LED indicators to show the status of each individual bay.

The sensor sends out an ultrasonic frequency constantly at the preconfigured distance. The IDI data concentrator gets the sensor status in the form of target/no target from the sensor and then with a separate command sets the LEDs based on the state definitions (red – occupied, green – vacant, blue – disabled, orange – reserved).

There are two different types of ultrasonic sensor, hardwired and wireless. The hardwired sensor receives both power and communication through direct cabling. The wireless ultrasonic sensor is mounted on two tensioned PVC coated copper cables. Power is drawn through connector pins that pierce the cable when the sensor is clipped into place. The wireless sensor uses X-Bee wireless network to communicate back parking availability information.

Ultrasonic LED Features:

- Operates at distances from 0.3m up to 6m and can be adjusted manually
- 3 Second change between target/no target positions
- Ultra bright LED indicator lights are visible at 360 degrees and can display red, green, blue, or amber
- Sensors can be hardwired or wireless

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SPECIFICATIONS

Nominal Frequency:	40 KHz
Detectable Range:	.98ft – 19.69ft (0.3-6m)
Directivity:	25 degrees or 50 degrees
Operating:	-40°C to +85°C (-40°F to +185°F)
Input Voltage:	10 ~ 36 VDC
Consumption Current:	240 max mA
Resolution:	9.84" (.25m)
Degree of Protection:	IP65
Communication:	RS485 4 wire (hardwired) or Wireless X-bee Mesh Network (wireless)
Weight:	9.2oz (261g)
Dimensions:	6" x 3.625" x 4.125" 152.4mm x 92.075mm x 104.78mm

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