

## Security and Surveillance: Optical Barrier for Secured Premises

---

### The Challenge

Premises that require a high level of security often have a physical fence, but this is not always enough. In this particular case, our customer was a high-security establishment looking for a reliable detection system that would alert security personnel to the presence of potential intruders. The organization was particularly interested in a sturdy and weather-proof system that would offer 24/7 detection, regardless of the weather conditions or the time of day; it had to work just as well on bright sunny days as on cold stormy nights. In addition, they were on a deadline, so the system had to be quick and easy to install and simple to operate.

### LeddarTech's Solution: The IS16 Industrial Leddar™ Sensor

The Leddar™ Sensor uses a novel, inherently eye-safe technology that performs detection and ranging by time-of-flight measurement using pulses from visible or infrared LEDs.

Product features:

- Large illumination area and immunity to ambient light optimize detection robustness under all environmental conditions.
- Best cost/performance ratio as compared with competing detection technologies.
- Ease of installation and configuration.
- Robust IP67 enclosure allows for permanent outdoor installation

### The Outcome

As illustrated in the image below, for this specific application, a series of IS16 sensors are installed on posts all around the perimeter of the building, creating an optical detection barrier and thus detecting any unwanted presence. The detection status of each sensor is sent to the security control center and is used to alert security personnel and provide the exact location of a potential intruder. Moreover, the installation produces very few false-alarms, which ensures that all alarms are investigated, further adding to the efficacy of the LeddarTech solution.

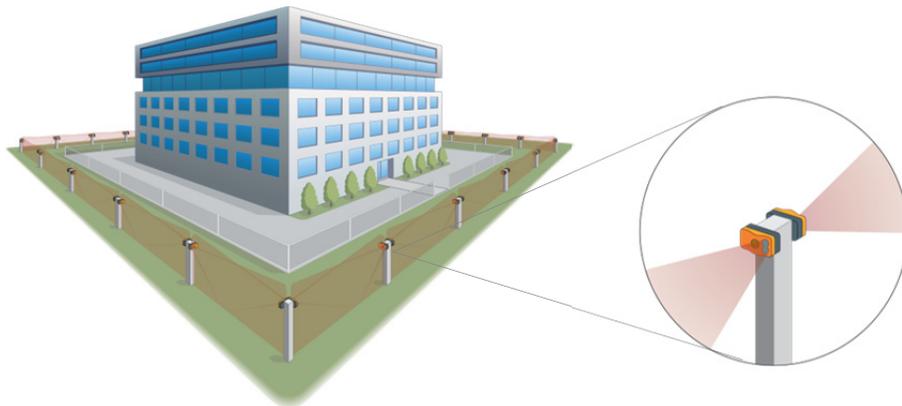


Fig. 1 — A series of IS16 sensors are installed on posts all around the perimeter of the building, creating an optical detection barrier

### Product References

- IS16 Industrial Leddar™ Sensor