# CeLAN Ce-DS939

**CINCH**

DS-Ce-DS939 Rev A

## General Ce-DS939 Panoramic PIR

The ceiling mount DS939 PIR Detectors provide up to 16.4 m (54 ft) panoramic coverage pattern and can be mounted on ceilings as high as 6.1 m (20 ft). With three separate PIR sections that are fully adjustable, the DS939 detectors provide coverage integrity at all mounting heights, plus the ability to customize the coverage for specific areas. The DS939 detectors use several patented processing techniques to provide excellent catch performance with freedom from false alarms.

### Signal Processing

The DS939 detectors use passive infrared technologies to provide an alarm condition when the field of protection is activated. Alarm signals must meet the signaling requirements to activate an alarm.

### First Step Processing

First Step Processing (FSP) allows virtually instant response to human targets without sacrificing false alarm immunity to other sources. By adjusting its sensitivity based upon signal amplitude, polarity, slope and timing, FSP eliminates the need for the installer to select the sensitivity level for the application. Each sensor is processed individually and both must agree there is an alarm before the alarm relay is activated.

## DS939 Panoramic PIR Features

- Up to 6.1 m (20 ft) mounting height.

- Fully adjustable optics for coverage integrity and customization.

- Hinged chassis and base plate for easy installation.

- High efficiency LED and light pipe system for easy walk testing.

- First Step Processing (FSP).

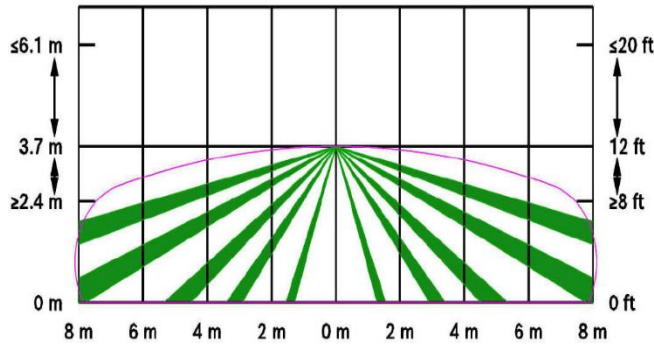- Enrolls into the system as a CeLAN device. The system can enroll up to 100 CeLAN devices.

The CeLAN DS939 PIR Detector is ready to install with a CeLAN module connected to the detector. Simply wire the module to the Protector CeLAN Bus, enroll the CeLAN module, and enroll the zones into the panel. The DS939 motion detector has the capability of reporting two individual zones:
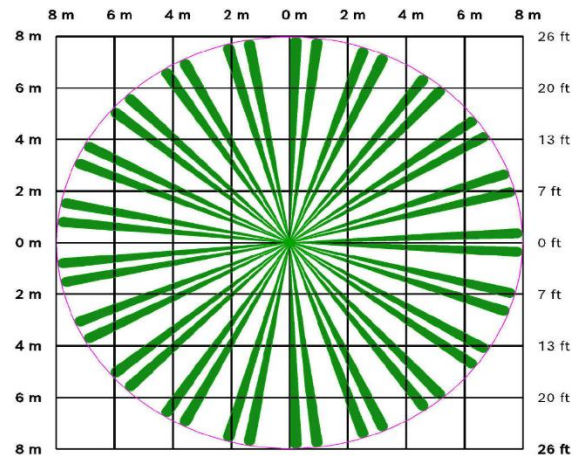
## Test Features

- High efficiency LED and light-pipe system provide walk test indication that is easily viewable from any angle and at any mounting height.
- Alarm memory feature allows detector to latch the alarm LED to aid in response.
- Remote LED walk-test control allows the LED to be enabled or disabled using a switched input without accessing the detector.

## Coverage



**8 ft to 20 ft ( 2.4 m to 6.1 m) mounting height.**



**360°- 45 ft (14m) diameter coverage, mounted at 16 ft.(4.9m)**

## CeLAN Specifications

- Power Requirements: 12 VDC nominal (8.0 VDC mini- mum, 16 VDC maximum), 25 mA max.
- Panel Data Bus: CeLAN - 128 Bit AES Encrypted.
- CINCH Stick Port: One (1) - 128 Bit AES Encrypted, CINCH Stick port.
- Storage Temperature: -30°-140°F (-34° to 60C).
- Operating Temperature: 32°- 120° F (0°- 49° C), up to 140° F (60°C) under temporary conditions.
- Maximum Humidity: 90% relative humidity, non-condensing.
- Listings: 20190115; UL639 – Standard for Intrusion-Detection Units, FCC Part 15, FPIS 197.

## DS939 Specifications

- Material: High impact ABS plastic enclosure
- Dimensions: 3.5 in x7 in. (8.9 cm x 17.8 cm).
- Operating Temperature -40°F to 120°F (-40°C to +49°C). For UL Listed Applications, +32°F - 120°F (0°C to + 49°C)
- Radio Frequency Interference (RFI) Immunity.
- No alarm or setup on critical frequencies in the range from 26 MHz to 950 MHz at 50 V/m.
- Height (recommended): 2.4 m to 6.1 m (8 ft to 20ft).
- Location: Mounts directly to ceiling or to standard octagonal electrical box.
- Internal Point-ability: Coverage is adjustable ±10° horizon-tally, +2° to -18° vertically.
- Alarm: Form C reed relay at 3.0 W, 125 mA at 28 VDC for resistive loads.
- Tamper: Normally-closed. Contacts rated at 28 VDC, 125 mA maximum.
- 12 mA standby; 20mA in alarm with LED enabled.
- Voltage: 9 VDC to 15 VDC.

# Ordering

| Control Panel | CeLAN Modules | CeLAN Accessories | Accessories |
|---|---|---|---|
| PCU-IDS  Protector Panel | Ce-DS939  Motion | CO-CSU  Cinch Stick | L-M-KD  Panel Lock |
| | Ce-DS308  Motion | CO-PS2KI  Keyboard Module | L-M-KA  Panel Lock |
| **Touch Screen** | eCe-DSISC  Motion | CO-T-P  Panel Tester | ACC-CFC-S  Fiber Cable |
| Ce-TS  Touch Screen | Ce-M3ZS  HSS L2 Contact | CO-T-8Z  8 Zone Tester | L-S  Standard Panel Lock |
| | Ce-M1ZRS  Recessed Contact | CO-T-4R  4 Relay Tester | ACC-CFC-MM  Fiber Cable |
| **Expansion Modules** | Ce-1076DRS  Recessed Contact | CO-T-Printer  Printer Tester | S-ET  Panel Tamper |
| Ce-2ZI  2 Zone Input | Ce-1076HRS  Recessed Contact | CO-PRSI  Siren Supervision | |
| Ce-8ZI  8 Zone Input | Ce-U1Z  Universal 1 Zone | Ce-EX  Expansion Module | **Enclosures** |
| Ce-4RO  4 Relay Output | Ce-WF2ZI  Wells Fargo Contact | | E-P  Panel Enclosure |
| Ce-24ZI  24 Zone Input | Ce-U2Z  Universal 2 Zone | **Power** | E-P-Kit |
| | | ACC-24T-100  Transformer | E-CP  Plastic Enclosure |
| **Communication Modules** | **Receivers** | ACC-B12-18  18Ahr Battery | E-PA  Accessory Enclosure |
| Ce-FC-N  Fiber Conversion | Ce-AESR-IDS AES Receiver | ACC-B12-7  7Ahr Battery | E-PA-Kit |
| Ce-TCP/IP  Network Module | | ACC-6P  Power Cord | E-PA-S  Small Accessory Enclosure |
| Ce-FC-ER  Fiber Conversion | | E-CB  Termination Box | E-PA-S-Kit |

**CINCH**
**AES ENCRYPTED**