

# CeLAN

## Ce-DS939

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.

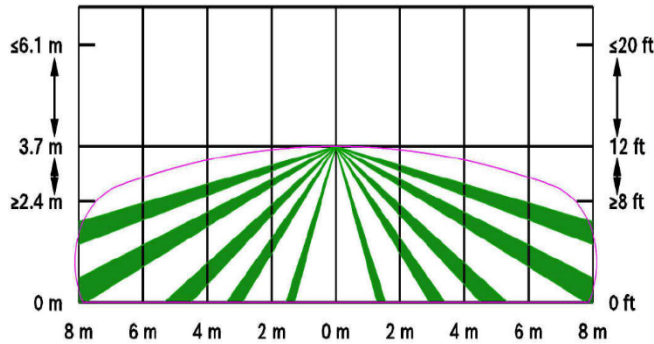


The CeLAN DS939 PIR Detector is ready to install with a CeLAN module connected to the detector. Simply wire the module to the Protector CeLAN Bus, enroll the CeLAN module, and enroll the zones into the panel. The DS939 motion detector has the capability of reporting two individual zones:

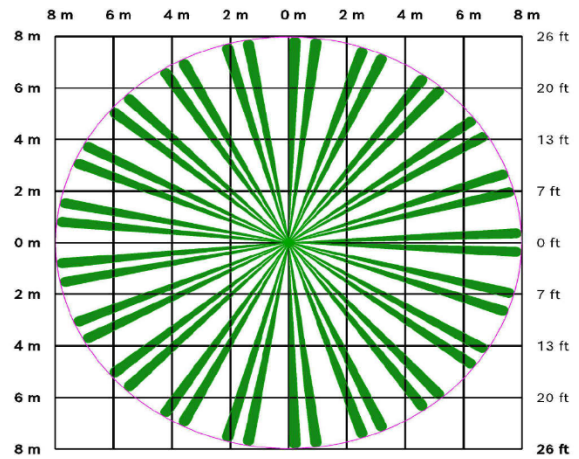
#### Test Features

- 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 minimum, 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  $\pm 10^\circ$  horizontally,  $+2^\circ$  to  $-18^\circ$  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

PCU-IDS Protector Panel

### Touch Screen

Ce-TS Touch Screen

### Expansion Modules

Ce-2ZI 2 Zone Input

Ce-8ZI 8 Zone Input

Ce-4RO 4 Relay Output

Ce-24ZI 24 Zone Input

### Communication Modules

Ce-FC-N Fiber Conversion

Ce-TCP/IP Network Module

Ce-FC-ER Fiber Conversion

### CeLAN Modules

Ce-DS939 Motion

Ce-DS308 Motion

Ce-DSISC Motion

Ce-M3ZS HSS L2 Contact

Ce-M1ZRS Recessed Contact

Ce-1076DRS Recessed Contact

Ce-1076HRS Recessed Contact

Ce-U1Z Universal 1 Zone

Ce-WF2ZI Wells Fargo Contact

Ce-U2Z Universal 2 Zone

### Receivers

Ce-AESR-IDS AES Receiver

### CeLAN Accessories

CO-CSU Cinch Stick

CO-PS2KI Keyboard Module

CO-T-P Panel Tester

CO-T-8Z 8 Zone Tester

CO-T-4R 4 Relay Tester

CO-T-Printer Printer Tester

CO-PRSI Siren Supervision

Ce-EX Expansion Module

### Power

ACC-24T-100 Transformer

ACC-B12-18 18Ahr Battery

ACC-B12-7 7Ahr Battery

ACC-6P Power Cord

E-CB Termination Box

### Accessories

L-M-KD Panel Lock

L-M-KA Panel Lock

ACC-CFC-S Fiber Cable

L-S Standard Panel Lock

ACC-CFC-MM Fiber Cable

S-ET Panel Tamper

### Enclosures

E-P Panel Enclosure

E-P-Kit

E-CP Plastic Enclosure

E-PA Accessory Enclosure

E-PA-Kit

E-PA-S Small Accessory Enclosure

E-PA-S-Kit

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**CINCH**  
AES ENCRYPTED