



## FENSENSE

A FENCE WITH A SENSE

### DESCRIPTION

FenSense is an innovative concept that takes the traditional idea of a fence and infuses it with technology and emotion, transforming it into a living, responsive entity. This "fence with feelings" represents a boundary that can sense and react to its environment, creating a unique blend of functionality and interactivity.

- **Cutting Edge Intrusion Detection**
- **High Accuracy**
- **Zero False Alarm**

FenSense is designed to provide advanced protection through the following three key functions

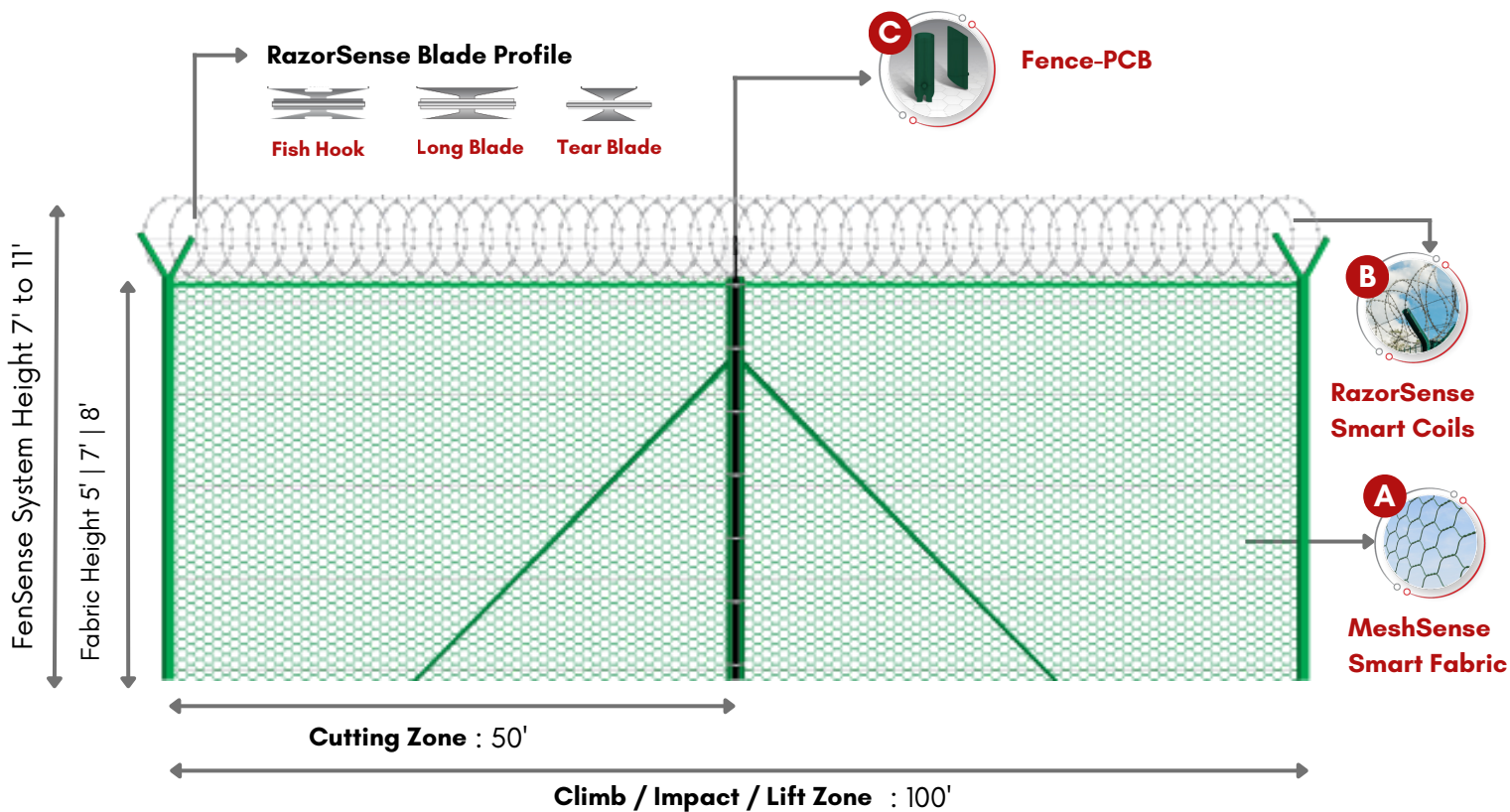
**Demarcate:** A robust honeycomb mesh design which is highly durable and difficult to breach, clearly marking the boundaries.

**Deter:** To enhance its deterrent capabilities, FenSense incorporates a razor coil, the razor-sharp coils not only provide a physical obstacle but also serve as a psychological deterrent.













**Detect:** Sensors embedded in the honeycomb mesh and razor coils detect cutting or climbing attempts and trigger alarms with pinpoint location.



## FENSENSE SYSTEM COMPONENTS



## FENSENSE FEATURES

<b>HIGH ACCURACY</b>  Cut detection accuracy at every 49ft. Intrusion detection accuracy at every 98ft.	<b>PLUG &amp; PLAY</b>  Modular system elements for easy and faster installation	<b>EASY INSTALLATION</b>  Use of modular clamps promotes easy & fast installation
<b>ADJUSTABLE SENSITIVITY</b>  The detection sensitivity can be adjusted in individual Fence-PCBs	<b>COMPACT &amp; DISCRETE</b>  Uniquely compact and discrete, thus allowing it to be mounted easily	<b>REDUNDANCY</b>  Can be configured in redundant modes to address failure
<b>LOW FALSE ALARMS</b>  Very low false alarms as the fence is a part of the sensing system	<b>SELF ALIGNING MESH</b>  The sensors create a wireless mesh network for easy & fast communication	<b>IP65 RATING</b>  Rated for IP65 providing water and dust proof protection.
<b>RIGID &amp; STRONG</b>  Honeycomb structure evenly distributes impact along the mesh.	<b>SECURE PROTECTION</b>  Triple twist construction prevents impact from cutting or breaking wires.	<b>LONG PRODUCT LIFE</b>  Ny-Pro coating ensure excellent corrosion resistance

## FENSENSE COMPONENTS



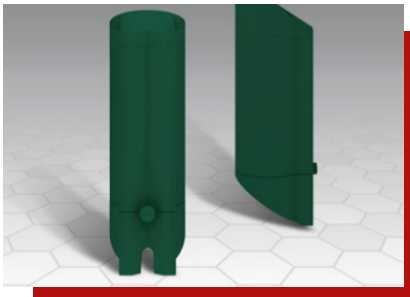
### A MeshSense : A Smart Fabric

MeshSense consists of a Ny-Pro Coated Honeycomb fabric acting as the sensing element with termination beams at each end for connection with Fence-PCB (power and communication box). MeshSense Smart Fabric can sense climbing, cutting, breaking, and lifting intrusion attempts.



### B RazorSense

RazorSense is a razor coil with Ny-Pro coated core wire acting as the sensing element. It is also connected to the Fence-PCB. RazorSense smart coils can sense cutting, lifting, deforming intrusion attempts



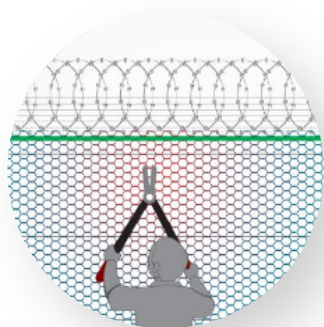
### C Fence PCB ( Power In Communication Box)

Fence-PCB is the IP65 rated device which takes care of distributing signals into the mesh and coils, decides if the alarm needs to be raised based on difference in the sent and received signal, and transmits the alarm data wirelessly in a mesh communication to the control room.

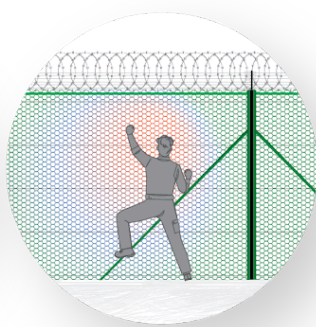
## SPECIFICATIONS

PARAMETER	SPECIFICATIONS
Fabric Width	49' (+/- 5% tolerance)
Fabric Height	4.9' / 6.5' / 8.8' (+/- 5% tolerance)
Mesh Size	2.50" X 3.25" / 3.25"X 4" / 4" X 4.75" (+/- 10% tolerance)
Fabric Finish	Ny-Pro Coating
Ingress Protection	IP65
Operating Temperature	-22 to 140 °F
Power Consumption	96 watts per miles at 24VDC
Communication type	Wireless

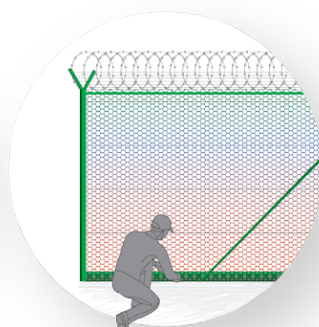
## INTRUSION DETECTION AGAINST



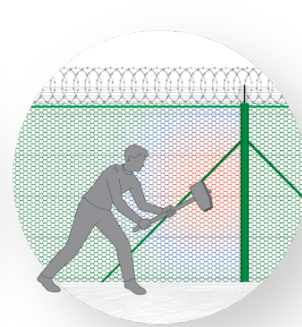
Cutting



Climbing



Lifting



Breaking of Posts

CUT DETECTION  
**50'**

DETECTION ACCURACY  
**100'**

## APPLICATIONS



Airports



Railways



Factory



Seaports



Expressway



Borders



IT Parks



Data Centers