



Sensor Coil & Defensor Sensor Cable

HYBRID PERIMETER INTRUSION DETECTION SYSTEM (HPIDS)

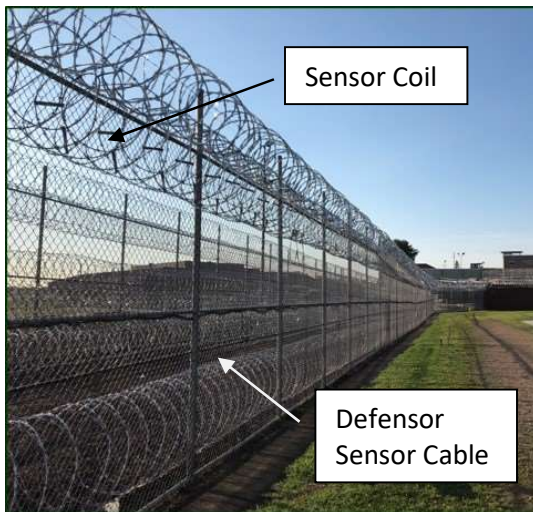
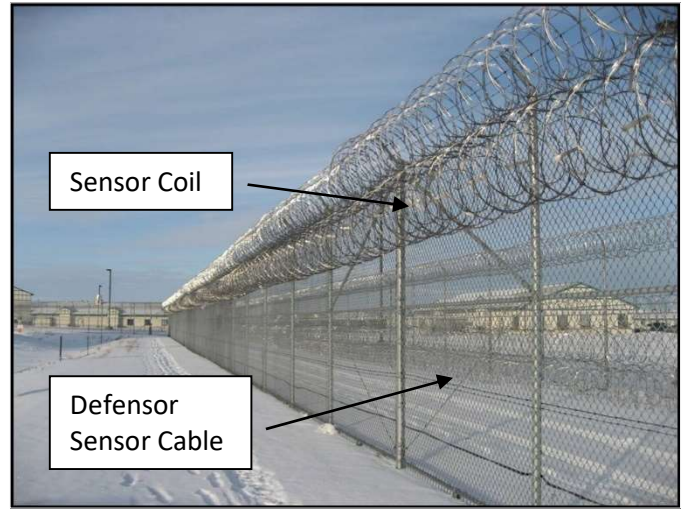
Introduction

DeTekion Security Systems Inc. Sensor Coil & Defensor Sensor Cable Hybrid Intrusion Detection System (HPIDS) is the optimal Perimeter Intrusion Detection System (PIDS) for many facilities.

Sensor Coil & Defensor Sensor Cable HPIDS

In the HPIDS configuration each PIDS compliments the other PIDS that is part of the HPIDS. The Sensor Coil is typically installed at the top of the perimeter fence & the Defensor Sensor Cable is typically installed close to the bottom of the fence.

The Sensor Coil can be added to existing Sensor Cable systems by others that becomes a HPIDS configuration.



High Probability of Detection (POD)

The Sensor Coil is electronically “tuned” for optimal detection of attempts to climb over it / over the fence and the Defensor Sensor Cable is electronically “tuned” for optimal detection of attempts to cut through the fence. These settings facilitate a very low Nuisance Alarm Rate (NAR)

HPIDS Advantages

- *Formidable Physical Barrier*
- *Deterrent*
- *Very High POD*
- *Very low NAR*
- *Full Redundancy / Each PIDS can Compensate for the other*
- *Each PIDS has many common parts and components*
- *No electronics or power in the field when integrated with and annunciated at the CentrAlert Controller*
- *Can easily be integrated with other PIDS & Controllers (dry contact)*
- *Optimal for Older Fences*
- *Adjacent Barbed Tapes are “sensorized”*
- *Optional Self-Verification via Audio Output*
- *Very Low Maintenance*
- *Weather Resistant and Robust Construction*
- *Highly Defeat/Tamper Resistant*
- *Modular in Design*

Specifications Sensor Coil & Defensor

Application	Attaches to perimeter fences, buildings, and roofs
Zone Length	Dependent on support structure condition, camera location, system design and personnel response
High Security Fences	Recommended maximum: 100m
Buildings	Recommended maximum: 200m
Roofs	Recommended maximum: 250m
Dimensions	Outside diameter: 30" (762mm) 40" (1016mm) Module Length: 25' (7.6m) 50' (15.2m)
	For custom lengths contact DeTekion
Materials	
Outer Coil	30" with 101 loops. Each loop with 23+/- barb clusters, Material AISI 430 Series Stainless Steel (ASTM A 176)
Barbs	Clusters of four (4) Barbs with Max. Tip Radius of 0.005" (.13mm). With Min. Length of 1.2" (30.5mm) Offset .15" (4mm) to .45" (11.4mm) From centerline.
Reinforcement	Wire, 0.098" (2.5mm) Diameter 304 SS. ASTM A-580
Concertina	Alternate adjacent loops clipped Together at 5 places about the circumference, continuous along entire rolls length.
Clips	SS. 0.375" (9.5mm) x 0.065" (1.7mm) Pull load up to 200 lbs.
Inner Coil	Austenitic SS. barbed tape. 19" (483mm) Diameter +/- 2" (51mm)
Defensor Sensor Cable	Installed within the inner coil. Refer to Defensor Sensor Cable spec Sheet
Mean Time Between Failures (MTBF)	250,000 hours
Operating Temp.	-40°C to +70°C
EMC/RF/IEC/CE Compliance	Call factory for reports
Location	Fence, Wall, Roof Line, Gate Frame, Ground, Barbed Tape Pyramid
Maintenance	Routine Inspection
Installation	By any DeTekion approved installer
Warranty	12 months from the date of approved installation

Sensor Coil / Defensor Analyzer (integration with control by others)

Application	Provides analysis of Defensor 100 Cable signal to provide alarm, tamper and audio outputs
Sales Part Number	GD-5000 or GD-5000 Eliminator
Inputs	Defensor Sensor Cable & Remote self-test
Outputs	
Alarm/tamper	Switchable relays between Form A and Form B, Form C Modified
Contact rating	Voltage: 110VAC or 30VDC Current: 0.3 amp AC or 1.0 amp DC Power: 30VA or 20W
Auto monitoring	OdBm into 600 ohms Open Collector
Lightening Protection	Transformer isolation and transistor suppression diodes on sensor input; Spark gaps on signal outputs
Internal Indicators	Alarm and tamper relay status; Sensor Fault; Events and Climb indicator; PCB fuse All indicators are LEDs
Internal Controls	Sensitivity: 2 independent sensitivity controls; Events: selectable 1-9; Timer: selectable in 30 sec intervals, range 30-270 secs Local Self Test Switch

CentrAlert Controller & Indoor Analyzer Boards

Analyzer (indoor)	Dual Zone Printed Circuit Board Sensitivity: 3 independent controls; Events: selectable 1-9; Timer: selectable in 30 sec intervals, range 30-270 secs
Rack for Analyzers	8 or 12 Analyzer Boards (16 or 24 zones)
Indicators	Alarm and tamper status; Sensor Fault; Power & Atomic Clock All indicators are LEDs
Relay Board	Up to 16 Zones. Form A or B. Up to 4 outputs per zone.
Relay Board Rack	Up to 16 relay Cards. Rack Mount
Rack Indicators	Secure / Alarm; System status; Power All indicators are LEDs
CentrAlert Engine	PC running Windows 10 Security System Software Program
Graphic User Interf	Graphic display of the HPIDS zones. Touch Screen, keyboard, mouse.
Signal Transfer	Feeder Cable (suitable for outdoor)



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Specifications subject to change without notice.