



Sensor Coil 600

PERIMETER DETECTION SYSTEM

Introduction

DeTekion Security Systems, Inc.'s Sensor Coil 600 integrates the Defensor 100 cable into a stainless steel Double Barbed Tape Security Coil. The combined product produces a unique sensor / barrier assembly that mounts in almost any configuration.

Sensor Coil 600

DeTekion Security Systems, Inc.'s Sensor Coil 600 uniquely combines a highly reliable Perimeter Detection System with a Barbed Tape Security Coil. This patented design presents a fierce physical barrier that adapts to any contour. Sensor Coil 600 mounts on new/existing walls, roofs and fences without expensive modifications. The Barbed Tape Security Coil deters and delays escape while the built in microphonic sensor cable detects and assesses any attempted penetrations of the perimeter.

Features

- *Formidable Physical Barrier*
- *Reliable Detection Capability*
- *Highly Flexible — Integrates Well with any Contour or Building*
- *Easy Integration with other Security Systems*
- *Rapid Installation*
- *U.S. Patented Product*
- *Optional Self-Verification via Audio Output*
- *Superior Delay Effect*
- *Weather Resistant and Robust Construction*
- *Highly Defeat / Tamper Resistant*
- *Modular in Design*

Detection Capability

The Sensor Coil 600 utilizes the Defensor 100 sensor cable and analyzer. The Defensor 100 sensor cable is a patented microphonic sensor cable that uses a Spirawire process. It allows high levels of detection from the frequency response produced by the sensor cable without the need to increase the amplitude of the signal. Uniform detection is provided along the entire length of the coil.

The signals from the Defensor 100 sensor cable is analyzed using two separate channels, the Climb channel & Cut Channel. Each Channel is individually adjustable. Self verification is optional via the audio output which allows the activities at the Sensor Coil 600 to be monitored by sound. Industry standard alarm and tamper outputs enable connection to standard communication, monitor and control equipment.

Barbed Tape Coil

The Sensor Coil 600 is constructed of rigid double coil quality austenitic stainless steel barbed tape assembly. Modules are provided in 30" or 40" (outside) diameter coils. The inner stainless steel coil, which houses the sensor cable, is permanently connected to the outer barbed tape coil with stantions.



Specifications

Sensor Coil 600

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 Lengths: 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	Austinitic SS. barbed tape. 19" (483mm) Diameter +/- 2" (51mm)
Defensor Sensor Cable	Installed within the inner coil. Refer to Defensor Sensor Cable spec sheet.
Operating Temperature	-40°C to +70°C
Electric Magnetic Compatibility	Complies with the requirements of BS EN50081-1 and EN50082-1
Location	Fence, Wall, Roof Line, Gate Frame, Ground, Barbed Tape Pyramid
Maintenance	Routine inspection
Installation	By any DeTekion approved installer
Warranty	12 months from date of approved installation

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Specifications subject to change without notice.



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Sensor Coil Analyzer

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	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
Lightning Protection	Transformer isolation and transistor suppression diodes on sensor input; Spark gaps on signal outputs
Internal Indicators	Alarm and tamper relay status indicators; Sensor Fault indicator; Events and Climb indicator PCB fuse indicator 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
Dimensions	260mm W x 160mm H x 91mm D
Weight	1.2kg
Power Requirements	7.5-28VDC; 60mA at 12V Reverse polarity and overvoltage protection with fused input as standard
Housing Material	Die-cast aluminum with agate gray polyester finish RAL 7038 Supplied complete with integral 6mm ground stud and 3x PG9 EMC cable glands, & 1 PG11 EMC cable gland, Sealed to IP66
Operating Temperature	-40°C to +70°C
Electro Magnetic Compatibility	Complies with the requirements of BS EN50131-1: 2006 & EN50082-1 & PD6662.2004
Grading	Security Grade 3 Environmental Class IV In accordance with BS EN50131-2006, A1 2009, & PD6662.2004
Options	Special environment filters for local fence styles
Installation Time	30 minutes
Fixing Method	Mounting bar
Location	Externally mounted
Maintenance	Regular self-test and inspection
Warranty	12 months from date of approved installation

